Administrator's Guide for Zimbra Chat

1 This document is applicable for Zimbra Daffodil version 10.1.7 onwards.

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Introduction To Zimbra Chat @

Zimbra Chat is a secure, real-time messaging solution integrated into the Zimbra Daffodil (Version 10.1.7 onwards), designed to enhance team communication while adhering to Zimbra's core principles of privacy, data sovereignty, and user control. This chat service is offered in two distinct variants:

- Basic Chat: A lightweight one to one messaging solution, ideal for users who need quick, person-to-person communication embedded within the Modern UI.
- Advanced Chat: A full-featured messaging platform, enabling threaded group conversations, searchable archives, and additional collaboration tools. Built using an open source platform, this variant supports advanced use cases and is suited for organizations needing rich communication experiences.

Both variants are integrated directly into Zimbra's Modern Web Client (Modern UI) and support secure on-premises deployment.

Basic Chat Vs. Advanced Chat Comparisons @

	Features	Basic Chat	Advanced Chat
1	Direct Messaging (One to one chat)	0	•
2	Notifications	0	0
3	User Presence	0	0
4	User Preference and customisation	Limited	0
5	Localisation	Limited	Limited
6	Emoji support	0	0
7	Scalability (total users)	50k+	50k+
8	Multi-domain support	0	0
9	OS support	Ubuntu 22/24 Only	Ubuntu 22/24 Only
10	LDAP based authentication	0	0
11	Auto-provisioning	0	0

12	Platform support	Web-client only	Web-client only
13	Comprehensive documentations for users, admin	0	0
14	Message History search	8	0
15	Ad-hoc Groups	8	0
16	Channels	8	0
17	Topic based threading	8	0
18	File sharing and storage	8	0
19	Voice	8	In-built integration with public instance of Jitsi
20	Expressive formatting - bold, italics, numbered lists, bullet lists, code syntax	8	•
21	Advanced features- e.g. send later, mark unread	8	0
22	Role based access control	8	0
23	Domain level Custom Branding	8	0
24	Import data from other chat products	8	8
25	Desktop application	8	Roadmap
26	Mobile application	8	Roadmap

Licensing Guide @

Zimbra's new Chat solution offers two distinct tiers:

- Basic One To One Chat free of charge as introductory pricing, lightweight messaging.
- Advanced Chat paid tier with extended features.

To begin using Zimbra Chat, ensure your system is on Zimbra 10.1.7 version or later and follow the relevant guidance below.

Prerequisite @

The Zimbra license must have the following entitlements enabled:

- BasicOneToOneChatAccountsLimit To enable basic one to one chat.
- ChatAccountsLimit To enable advanced chat.

Both entitlements work independently of each other.

> Note: Zimbra Chat is an add-on module and is not included in any existing editions or bundles. It must be purchased separately, even for customers with current Zimbra licenses. Please reach out to your Zimbra representative to get these entitlements.

For New Customers (Starting with 10.1.7 or later) @

- 1. A license is issued as part of the onboarding process.
- 2. Chat features (Basic or Advanced) are included based on your selected plan.
- 3. Once licensed:
 - Chat features will be enabled automatically.
 - You'll receive the license key via email.

4. If you have not received chat functionality or wish to upgrade, please reach out to your Zimbra representative.

For Existing Customers Already on Zimbra 10.1.x version older than 10.1.7 @

Basic One to One Chat (Free) 🖉

- This is available at no cost but is not enabled by default.
- To enable:
 - Contact your Zimbra representative and request Basic Chat to be enabled for your license.
 - Once updated, restart your mailbox servers to activate the chat functionality.

Advanced Chat (Paid) @

- Contact your Zimbra representative and upgrade your license to enable Advanced Chat.
- Upon license update:
 - Restart all mailbox servers to ensure chat extensions are loaded.
 - Chat will be available within your Zimbra interface.

Tip: If you're upgrading from version 10.1.6 to 10.1.7:

- If your license is updated before the upgrade, no restart of mailstores is required.
- If the license is updated after the upgrade, you must restart all mailbox servers to ensure chat extensions are loaded.

For Customers on Older Versions (8.8.15, 9.0.x, 10.0.x) @

- 1. Your older license (v2) must be migrated to the new format (v3) before you proceed with the upgrade.
 - a. Please contact your Zimbra representative and request the v3 license to get the updated entitlements.
- 2. Upgrade to Zimbra 10.1.7 or later.
- 3. Once on a latest Zimbra version:
 - Basic Chat can be enabled free of cost.
 - Advanced Chat is available via a paid upgrade.

You will now be able to access the new Chat features.

For Customers with existing Zimbra Talk Entitlement (8.8.15, 9.0.x) @

- 1. Your older license (v2) must be migrated to the new format (v3) before you proceed with the upgrade.
 - a. Please contact your Zimbra representative and request the v3 license to get the updated entitlements.
- 2. Upgrade to Zimbra 10.1.7 or later.
- 3. Once on a latest Zimbra version:
 - Basic Chat will be enabled at no additional cost.
 - Advanced Chat is available under following conditions.
 - Advanced Chat Limit will by default be set to ZTalkAccountsLimit.
 - Available till Support end date for ZTalk SKU/contract.
 - New Zimbra Chat SKUs will be provided to such customers at no additional cost.

Things to know before installing Zimbra Chat @

Before proceeding with the installation, administrators should be aware of the following prerequisites and limitations:

- 1. Separate Server Requirement: Zimbra Chat must be installed on a dedicated server. It cannot be co-hosted with the Zimbra Collaboration Suite components.
- 2. Version Compatibility: Zimbra Chat is supported only on Zimbra Daffodil version 10.1.7 and above. Customers on earlier versions must upgrade their ZCS environment.
- 3. Modern UI Only: Chat is currently supported only in the Modern UI. Support for the Classic UI is under active development and is part of the near-term roadmap.
- 4. LDAP Integration: Zimbra Chat uses LDAP authentication from Zimbra Collaboration Suite(ZCS) for secure user login and provisioning.
- 5. No Built-In Video: This is a chat only solution, and does not include video conferencing solution. However, an integration with open source chat solution has been provided. For more details, refer to Zimbra Chat Administrator → Video section.
- 6. No support for Migration: There is no support for migration from earlier chat solutions like Zimbra Talk, or Hosted chat and video.
- 7. **Performance considerations**: While the solution is tested for 50k+ total users and upto 10k users on a single server, the actual performance might vary depending on usage patterns, online users, users per domain, infrastructure used for chat etc. Refer to the scaling guide for more information on best practices for scaling the solution effectively.
- 8. Supported OS: Only Ubuntu 22 and 24 are officially supported for installation of Zimbra Chat server.
- 9. Add-On Model: Zimbra Chat is not bundled with Zimbra Collaboration Suite(ZCS) by default—it is offered as an add-on feature, enabling customers to choose the level of functionality needed.



Zimbra Chat Architecture Overview @

- Mailbox Server + Chat Extension: Initiates provisioning and Basic Chat requests via HTTPS.
- Zimbra Proxy Server: Routes HTTPS requests and forwards Advanced Chat requests to the Chat Server.
- Chat Server: Interacts with mailbox and LDAP servers, and forwards requests to application components.
- LDAP Server: Provides user authentication and domain/account information over LDAP/LDAPS.

Scaling and Infrastructure Guide @

This section outlines scaling guidelines and configurations, offering recommendations for selecting the appropriate compute resources to ensure optimal performance, scalability across different deployment sizes.

Resource Sizing @

- Active users include web clients performing passive background tasks (For example: presence for online status) against Zulip for Zimbra.
- Implement vertical scaling to fit machine resources for an expected active user count. The following sample sizes may require adjustment depending on the chat service activity levels.
- Note: Favor a dedicated PostgreSQL setup if significant growth in number of active users is anticipated.
 - ~500 Active Users Instance
 - Provision compute instance for all-in-one Zulip and PostgreSQL DB (4 vCPU, 16 GB RAM, 200 GB disk)
 - ~1k Active Users Instance
 - Provision compute instance for Zulip's PostgreSQL DB (2 vCPU, 16 GB RAM,100 GB disk)
 - Provision compute instance for Zulip (4 vCPU, 32 GB RAM,200 GB disk)
 - ~3k Active Users Instance
 - Provision compute instance for Zulip's PostgreSQL DB (2 vCPU, 16 GB RAM,200 GB disk)
 - Provision compute instance for Zulip (8 vCPU, 32 GB RAM,300 GB disk)
 - ~5k Active Users Instance
 - Provision compute instance for Zulip's PostgreSQL DB (2 vCPU, 16 GB RAM, 300 GB disk)
 - Provision compute instance for Zulip (12 vCPU, 32 GB RAM,400 GB disk)

Network Bandwidth @

- When establishing network bandwidth guidelines between different systems, such as Zimbra, Zulip, and PostgreSQL, it's essential to consider several factors such as expected volume of traffic, the number of concurrent users.
- The following sample sizes may require adjustment depending on the specific size of your organisation, the volume of data exchanged, concurrent user load.

1. Network Bandwidth between Zimbra and Chat Server: 🖉

• Recommended Bandwidth:

- A minimum of 100 Mbps would be suitable for small(upto ~500 Active Users) and medium-sized organizations(~500 to ~3k Active Users) where integration involves basic text messages.
- For larger deployments (more than 3k Active Users) where chat data is heavily used (for example- large message history, frequent queries), **1 Gbps** is recommended to handle high-frequency database requests and ensure low latency.

Note - Continuously monitor network performance and adjust bandwidth allocation as needed based on usage patterns and traffic spikes.

2. Network Bandwidth between Zulip and PostgreSQL Server: 🖉

PostgreSQL is often used as a backend database for chat, storing user data, messages, chat history, and configuration settings.

• Recommended Bandwidth:

- For smaller organizations(upto ~500 Active Users) with moderate database usage (for example: less frequent queries or fewer users),
 100 Mbps should be sufficient. This bandwidth can handle regular database queries and writes without causing performance degradation.
- For larger deployments(more than 3k Active Users) chat data is heavily used (for example: large message history, frequent queries), 1
 Gbps is recommended to handle high-frequency database requests and ensure low latency.

Note - Continuously monitor network performance and adjust bandwidth allocation as needed based on usage patterns and traffic spikes.

Scaling Process @

When deploying multiple Zulip instances, consider the following approaches:

- · Balanced Distribution (Recommended): Distribute domains evenly, by user count, across Zulip servers to optimize resource usage
- Incremental Deployment (Acceptable): Deploy domains gradually, adding new Zulip instances as needed
- 1. Local and General Zimbra Config Customisation
 - Adjust the relevant Zimbra options to support Zulip
- 2. For each Zulip instance
 - a. Determine Zulip instance capacity and sizing
 - b. Deploy and configure Zulip
 - c. Provision domains and users
 - d. Configure Zulip

Repeat step 2, deploying a fresh Zulip instance as more total user limit is needed.

See sections below for details.

Tornado Sharding @

The Tornado service is responsible for handling real-time events in Zulip.

In general each Tornado process may account for approximately 1000 event queues. Thus in a scenario where there are more than 1000 consistently active users, multiple Tornado processes may be needed to handle the traffic.

For Example:

- · 2k active users would expect about 2 to 3 tornado shards.
- · 3k active users would expect about 3 to 4 tornado shards.

Shard by User Id

The Zulip config may be adjusted to shard tornado by user id. This may be useful for spreading load across a few tornado services for a Zulip instance.

Adjust and add the following to /etc/zulip/zulip.conf to shard user id on the local Zulip instance.

- In the following example: all users in big-realm, by user id, over 4 tornado services that will be accessible (by the subsequent refresh script) on ports 9800, 9801, 9802, and 9803:
 - 1 [tornado_sharding]
 - 2 9800_9801_9802_9803 = big-realm
- After modifying the configuration specified in above section, run the following scripts with **root** user to apply the changes, stand up the instances, update config files, refresh components, and restart nginx:
- 1 /home/zulip/deployments/current/scripts/zulip-puppet-apply
- 2 # accept prompt: y
- 3 /home/zulip/deployments/current/scripts/refresh-sharding-and-restart

You may then verify the new tornado services are accessible with nc on the configured ports on zulip server. For example: nc -zv <hostname> <port_no>

Tornado Sharding beyond 10 processes 🖉

Tornado sharding scales properly till 9 processes. Scaling tornado shards to 10 or more than 10 processes may fail with exception TornadoQueueClient couldn't connect to RabbitMQ in zulip's /var/log/zulip/server.log.

The reason being port 9810 was already in use by smokescreen.

Please follow below steps to resolve this issue:

- Stop the smokescreen with zulip user using supervisorctl stop smokescreen
- Start the chat services with zulip user using /home/zulip/deployments/current/scripts/start-server
- Check the status if all services are up with zulip user using supervisorctl status
- If you find any service in stopped state, please try bringing them up individually with zulip user. For example:
 - If zulip-django is not up, use supervisorctl start zulip-django to bring it up
 - If zulip-tornado:zulip-tornado-port-9810 is not up, use supervisorctl start zulip-tornado:zulip-tornado-port-9810 to bring it up.

Zimbra Configuration @

1. Adjust the relevant max_total_connections options on each mailstore to support proxy traffic:

zmlocalconfig -e httpclient_internal_connmgr_max_host_connections=2000 zmlocalconfig -e httpclient_external_connmgr_max_host_connections=2000 zmlocalconfig -e httpclient_internal_connmgr_max_total_connections=2000 zmlocalconfig -e httpclient_external_connmgr_max_total_connections=2000 zmmailboxdctl restart

Note - May require further increases to accommodate increased proxy traffic to Zulip instances.

 $\hbox{2. Adjust the {\tt zimbraHttpNumThreads} config to support proxy traffic: } \\$

zmprov mcf zimbraHttpNumThreads 2000

Note - May require further increases to accommodate increased proxy traffic to Zulip instances.

Django 🖉

The Django service is responsible for Zulip's core APIs.

A single Django service is usually enough to handle the traffic for each of the supported sizes in a non-HA capacity. It may be necessary to increase the number of processes to speed things up in cases where the baseline incoming traffic drastically exceeds the processed traffic.

Configure Django

- Configure /etc/zulip/uwsgi.ini to fit Zulip instance resources
 - processes
 - Number of processes for web application.
 - Increasing this value increases the number of concurrent operations that may be processed by the web application, while also
 increasing the resource consumption of the web application.
 - Increase the number of processes to twice as the number of vCPU for zulip instance :
 - 2 * vCPU
 - listen
 - Size of listen queue.
 - Increasing this value increases the maximum number of requests that may be in the listen queue. Increasing this value beyond a size large enough to handle spike traffic is unlikely to be useful. If the maximum queue size is consistently hit, it indicates that the web application is processing requests too slowly to keep up with the incoming traffic's generation of requests.
 - May require adjustment to OS system configuration for net.core.somaxcon
- · Restart the Zulip service using -
 - su zulip -c '/home/zulip/deployments/current/scripts/restart-server'
- · Check the status of chat services using -
 - su zulip -c 'supervisorctl status'

Installation Guide @

Prerequisite @

To enable Basic Chat and/or Advanced Chat in Zimbra, ensure the following requirements are met:

License Activation @

The Zimbra license must have the following entitlements enabled:

- BasicOneToOneChatAccountsLimit To enable basic one to one chat.
- ChatAccountsLimit To enable advanced chat.

Zimbra Collaboration Server (ZCS) Version Requirement @

• Zimbra Daffodil (v10.1.7) or later

Zimbra Chat Server Hardware Requirements 🖉

Minimum Requirements: @

- CPU: Dual-core processor (Intel/AMD)
- RAM: 2 GB
- Disk Space: 10 GB of free disk space

Recommended Requirements: @

- CPU: Quad-core processor (Intel/AMD)
- RAM: 4 GB or more
- Disk Space: 20 GB or more (depends on expected data storage needs)

For more details refer to Scaling and Infrastructure Guide section.

Zimbra Chat Server Operating System Requirements 🖉

Compatible Linux Distributions: 🖉

- Ubuntu 22.04
- Ubuntu 24.04

Supported CPU Architectures: 🖉

- x86-64
- aarch64

Zimbra Chat Server Additional Requirements 🖉

- A dedicated machine or VM.
- The installer expects the Zimbra Chat server application (Zulip) and/or PostgreSQL to be the only thing running on the system; it will install system packages with apt (like nginx, PostgreSQL, and Redis) and configure them for its own use. We strongly recommend using either a fresh machine instance in a cloud provider, a fresh VM, or a dedicated machine.
- A connection to the Internet.

SSL Certificate Requirements @

A valid SSL certificate is required for the Chat server to ensure secure HTTPS communication, allowing the Zimbra mailstore to access it correctly.

For more details refer: Administrator Guide \rightarrow Install Chat server section.

Domain & URL Configuration @

Suppose that Zimbra Chat server hostname and Zimbra domain have been applied as follows:

- Chat server hostname is chat1.mydomain.com
- Zimbra domain (the domain of an email address) is @domain1.example.com

The following requirements needs to be met:

- Chat server will be accessed on https (https://chat1.mydomain.com) for provisioning and some other purposes. The hostname chat1.mydomain.com must be resolvable by Zimbra proxy and mailstore servers.
- The Chat access URL for this domain will be: https://domain1examplecom.chat1.mydomain.com. The FQDN domain1examplecom.chat1.mydomain.com must be resolvable by proxy and mailstore servers.

Notes:

DNS A record for domain1examplecom.chat1.mydomain.com should resolve to same IP as chat1.mydomain.com

Network & Firewall Configuration @

- · Hostname registered in DNS for the Chat server.
- Zimbra LDAP (or External LDAP or Active Directory, depending on your environment) hostname is resolvable by the Chat server.
- The Chat server hostname and FQDN for realms (domains) must be resolvable by Zimbra servers.
- · Zimbra LDAP server allows 389 port access (or 636 port access if Idaps (LDAP over SSL) is used) from Chat server.
- Zimbra Proxy server allows admin proxy port (9091 by default) access from Chat server and PostgreSQL server for Chat and PostgreSQL installation.
- PostgreSQL server allows 5432 port access from Chat server only.
- Chat server allows 443 port access from Zimbra proxy and mailstore servers only.
- Gecurity Requirements:
 - **IMPORTANT:** Restrict access to the Chat web application by blocking unauthorized machines. Chat web application must always be accessed through Zimbra web client. It MUST NOT be accessible from any machine except Zimbra proxy and mailstore servers.
 - if you want to make Chat web application accessible by administrator for management purpose, you must configure network access to allow the access from a specified machine only using iptables, firewalld, network firewall or any network access control module.
 - Restrict access to the PostgreSQL database by blocking unauthorized machines.

Install Zimbra Chat modules @

- Install ZCS 10.1.7 or later
 - Please proceed with the patch installation using wiki 📳 Zimbra Releases/10.1.0/patch installation Zimbra :: Tech Center
- · Install chat modules on all mailstore servers:

```
    Ubuntu:
    apt install zimbra-zimlet-chat
    HEL:
    yum install zimbra-zimlet-chat
    Common:
    su - zimbra
    zmmailboxdctl restart
```

Install Zimbra Chat server @

SSL Certificate Requirements @

A valid SSL certificate is required for the chat server to ensure secure HTTPS communication, allowing the Zimbra mailstore to access it correctly.

The installer supports three options: Commercial, Let's Encrypt, and Self-Signed. You must select one of these options when prompted during installation.

Commercial Certificate:

- Requires a valid SSL certificate to be pre-installed before running the Chat installer.
- DNS registration is required for the Chat server.
- Certificates must be deployed manually in the following locations:

Private Key: /etc/ssl/private/zulip.key

Certificate Chain: /etc/ssl/certs/zulip.combined-chain.crt

• The certificate must be able to verify the chat server's hostname and all Fully Qualified Domain Names (FQDNs), e.g., chat1.mydomain.com, domain1examplecom.chat1.mydomain.com, etc.

Let's Encrypt:

- The Chat installer uses the --certbot option to automatically obtain and configure an SSL certificate.
- By selecting this option, you must agree to the Let's Encrypt Subscriber Agreement when prompted by the installer. Please read the latest Let's Encrypt Subscriber Agreement at Policy and Legal Repository.
- DNS registration is mandatory.

Self-Signed Certificate:

- The Chat installer uses the --self-signed-cert option to generate a self-signed certificate.
- Not recommended for production use.

Prepare data for installation @

The following details are required for installation.

- · Zimbra Proxy Host: Hostname (FQDN) of Zimbra admin console proxy URL to send admin SOAP requests.
- Zimbra Proxy Admin Port: The port for the Zimbra admin console proxy on the proxy server (typically 9071).
- Zulip Admin Email & Password: The email address and password of an existing administrator account in Zimbra. The email address will be used as an administrator on Zulip application as well.
- Zimbra JWT Authentication Key: The value of zimbraChatJwtSecret configured in Zimbra.
- Zimbra Web Client URLs: A comma-separated list of all accessible Zimbra web client URLs (e.g., https://web.mydomain.com, https://virtual_domain1.example.com). Do not add a trailing slash like https://web.mydomain.com/.

The installer will prompt you to choose an authentication source: Zimbra LDAP, External LDAP, or Active Directory (AD).

If LDAP Source is Zimbra LDAP:

- Zimbra LDAP Host: Hostname of the Zimbra LDAP server. If you have multiple LDAP servers, choose one of them to use.
- Zimbra LDAP Port: Port used by the Zimbra LDAP server.
- Zimbra LDAP Password: Password for connecting to Zimbra LDAP.
- Zimbra LDAP Protocol: Choose between ldap or ldaps.

If LDAP Source is External LDAP/AD:

• External LDAP/AD Host: Hostname of the external LDAP or Active Directory server. If you have multiple LDAP/AD servers, choose one of them to use.

- External LDAP/AD Port: Port used for LDAP/AD communication.
- External LDAP/AD Password: External LDAP or Active Directory server password for authentication.
- External LDAP/AD Protocol: Choose between ldap or ldaps.
- External LDAP/AD Auth Bind DN: Distinguished Name (DN) for authentication.
- External LDAP/AD Email Attribute: The LDAP/AD attribute storing the user's email address.
- External LDAP/AD Full Name Attribute: The LDAP/AD attribute storing the user's full name.

Deployment Modes @

Single-node Setup @

Install Chat server application (Zulip) and PostgreSQL on a single server .

Multi-node Setup @

Install Chat server application (Zulip) and PostgreSQL on different nodes. There are two options for the order of installation.

Option 1: Install Zulip First, Then PostgreSQL

- 1. Install Standalone Zulip
 - When prompted:

Have you installed PostgreSQL on another VM, and is it ready for use? (yes/no) \rightarrow select no

- 2. Install Standalone PostgreSQL
- 3. Reconfigure Standalone Zulip to connect with the Standalone PostgreSQL instance
 - \circ When prompted again: Have you installed PostgreSQL on another VM, and is it ready for use? \rightarrow select yes

Option 2: Install PostgreSQL First, Then Zulip

- 1. Install Standalone PostgreSQL
- 2. Install Standalone Zulip
 - When prompted:
 - Have you installed PostgreSQL on another VM, and is it ready for use? \rightarrow select yes
 - Provide the details of the Standalone PostgreSQL server

Inputs required by installer @

- Zulip Service Type: Choose based on your deployment mode. Options: Standalone PostgreSQL, Standalone Zulip, Combined.
- · Zimbra Proxy Host: Hostname (FQDN) of Zimbra admin console proxy URL.
- Zimbra Proxy Admin Port: Admin console proxy port on the Zimbra proxy server (typically 9071).
- Zulip Admin Email & Password: Credentials of an existing administrator account in Zimbra.
- Zulip/Chat Server Hostname: Fully Qualified Domain Name (FQDN) of the Zulip/Chat server.
- Zulip Version: Currently supported version is 9.2.
- Chat Server SSL Certificate Type: Choose based on your requirement. Options: commercial, letsencrypt, self-signed.
- LDAP/AD Source: Select as per your environment. Options: Zimbra LDAP, External LDAP, AD.
- Zimbra JWT Authentication Key: The value of zimbraChatJwtSecret configured in Zimbra.
- Zimbra Web Client URLs: One or more Zimbra client URLs (comma-separated), e.g., https://web.mydomain.com, https://virtual_domainl.example.com.
- Zulip Server IP: Private IP address of the Zulip server, used by PostgreSQL to recognize the connection source.
- PostgreSQL Host: Hostname or IP address of the PostgreSQL server.
- PostgreSQL Port: Port number of the PostgreSQL service (typically 5432).
- PostgreSQL Password: Password to be set for the zulip user in the PostgreSQL database.

- **PostgreSQL Version**: The version number of the PostgreSQL server. Retrieve the PostgreSQL version from the /etc/zulip/culip.conf file from PostgreSQL Server.
- PostgreSQL SSL Mode: SSL mode for connecting to PostgreSQL.
 - For more details refer: 132.19. SSL Support

Install Zulip and PostgreSQL on a single server 🖉

1. Download the Chat Installer .tgz from the link below. Kindly verify the SHA256 and MD5 checksums as well.

1 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz

- 2 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz.md5
- 3 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz.sha256
- 2. Switch to the root user.
- 3. Extract the archive:
- 1 tar xf zfzi-1.0.0.tgz
- 2 cd zfzi-1.0.0
- 3 ./install.pl
- 4. The installer will prompt you to enter the Zulip Service Type (Standalone PostgreSQL, Standalone Zulip, Combined), choose Combined.
- 1 [2025-04-04 04:14:53] [INFO] Logging initialized. Operations will be logged to /etc/zulipinstaller/log/zulip.install.log.20250404_041453
- 2 [2025-04-04 04:14:53] [INFO] Detected OS: ubuntu:24.04, Architecture: x86_64. Proceeding.
- 3 [2025-04-04 04:14:53] [INFO] All required commands are already installed.
- 4 Enter Zulip Service Type (Available: Standalone PostgreSQL, Standalone Zulip, Combined): Combined
- 5. The installer will prompt you to provide the Zimbra Proxy Host, Zimbra Proxy Admin Port, Zulip Admin Email, and Zulip Admin Email Account Password. Please enter your inputs accordingly.
- 1 Enter Zimbra Proxy Host: zimbra.com
- 2 Enter Zimbra Proxy Admin Port: 9071
- 3 Enter Zulip Admin Email: admin@domain1.example.com
- 4 Enter Zulip Admin Email Account Password: PASSWORD

6. The installer will then verify connectivity to the Zimbra Proxy Host and validate the license using the information you provided.

- 1 [2025-04-04 04:15:13] [INF0] Checking connectivity to zimbra.com:9071
- 2 [2025-04-04 04:15:13] [INF0] Connected to zimbra.com:9071.
- 3 [2025-04-04 04:15:13] [INFO] Fetching Zimbra admin authentication token...
- 4 [2025-04-04 04:15:13] [INFO] Admin Auth Token fetched.
- 5 [2025-04-04 04:15:13] [INFO] Fetching Zimbra license information.
- 6 [2025-04-04 04:15:13] [INFO] License information retrieved.
- 7 [2025-04-04 04:15:13] [INFO] Chat services are supported by the existing Zimbra license.

7. The installer will prompt you to enter the Chat Server Hostname.

- 1 Enter Chat Server Hostname: chat1.mydomain.com
- 2 [2025-04-04 04:15:20] [INFO] Checking resolution for hostname: chat1.mydomain.com
- 3 [2025-04-04 04:15:20] [WARN] Hostname 'chatl.mydomain.com' is not resolvable via DNS. Checking /etc/hosts.
- 4 [2025-04-04 04:15:20] [INFO] Hostname 'chatl.mydomain.com' found in /etc/hosts. Proceeding.

8. The installer will prompt you to enter the Zulip Version.

1 Enter Zulip Version (Available: 9.2): 9.2

- 9. The installer will prompt you to enter the Chat Server SSL Certificate Type, LDAP/AD Source, Zimbra JWT Auth Key, URLs of Zimbra web client. Please enter your inputs accordingly.
- 1 Enter Chat Server SSL Certificate Type (commercial, letsencrypt, self-signed): letsencrypt
- 2 Enter LDAP/AD Source (Zimbra LDAP, External LDAP, AD): Zimbra LDAP
- 3 Enter Zimbra JWT Auth Key: SECRET_KEY
- 4 Enter URLs of Zimbra web client (comma-separated if multiple): https://zimbra.com
- 10. If you selected letsencrypt as the Chat Server SSL Certificate Type, the installer will prompt you to accept the Let's Encrypt Subscriber Agreement. You must agree to proceed with the installation.
- 1 Please read the latest Let's Encrypt Subscriber Agreement at:
- 2 https://letsencrypt.org/repository/#let-s-encrypt-subscriber-agreement
- 3 You must agree in order to register with the ACME server.
- 4 You must agree to the Let's Encrypt Subscriber Agreement to proceed.
- 5 Do you agree? (yes/no): yes
- 11. If you selected letsencrypt or commercial as the Chat Server SSL Certificate Type, the installer will check whether the Chat Server Hostname is publicly resolvable.
- 1 [2025-04-04 04:14:32] [INFO] Let's Encrypt certificate selected. DNS registration is mandatory for Chat Server Hostname.
- 2 [2025-04-04 04:14:33] [INFO] Chat Server Hostname is publicly resolvable.
- 12. The installer will prompt for LDAP details based on the LDAP/AD Source you specified. Please provide the requested information accordingly. If you have multiple LDAP servers, choose one of them to use.

1 Enter Zimbra LDAP Host: zimbra.com

- 2 Enter Zimbra LDAP Port: 389
- 3 Enter Zimbra LDAP Password: LDAP_PASSWORD
- 4 Enter Zimbra LDAP Protocol (ldap/ldaps): ldap
- 13. The installer will check connectivity to the LDAP server and prompt you to confirm whether to proceed. You must enter yes to continue with the installation.

```
1 [2025-04-04 04:15:50] [INF0] Checking connectivity to ldap server at zimbra.com:389
2 [2025-04-04 04:15:50] [INF0] Connected to ldap server at zimbra.com:389
3 [2025-04-04 04:15:50] [INF0] Package already exists: /etc/zulip-installer/package/zulip-server-9.2.tar.gz
4 [2025-04-04 04:15:50] [INF0] The following configuration will be used:
5 [2025-04-04 04:15:50] [INF0] Zulip version: 9.2
6 [2025-04-04 04:15:50] [INF0] Zulip service type: Combined
7 [2025-04-04 04:15:50] [INF0] Zulip/Chat server hostname: chat1.mydomain.com
8 [2025-04-04 04:15:50] [INF0] Chat server SSL certificate type: letsencrypt
9 [2025-04-04 04:15:50] [INF0] Zulip admin email: admin@domain1.example.com
10 [2025-04-04 04:15:50] [INF0] LDAP/AD Source: Zimbra LDAP
11 [2025-04-04 04:15:50] [INF0] URL's of Zimbra web client: https://web.mydomain.com
22
3 The system will be modified - continue? (yes/no): yes
```

14. The installation process will begin and may take some time to complete. Please wait while the setup finishes.

15. The installation output will look like the following (it may vary depending on the inputs provided):

- 1 [2025-04-04 04:14:53] [INFO] Logging initialized. Operations will be logged to /etc/zulipinstaller/log/zulip.install.log.20250404_041453
- 2 [2025-04-04 04:14:53] [INFO] Detected OS: ubuntu:24.04, Architecture: x86 64. Proceeding.
- 3 [2025-04-04 04:14:53] [INFO] All required commands are already installed.
- 4 Enter Zulip Service Type (Available: Standalone PostgreSQL, Standalone Zulip, Combined): Combined
- 5 Enter Zimbra Proxy Host: zimbra.com
- 6 Enter Zimbra Proxy Admin Port: 9071

```
7 Enter Zulip Admin Email: admin@domain1.example.com
8 Enter Zulip Admin Email Account Password: PASSWORD
9 [2025-04-04 04:15:13] [INF0] Checking connectivity to zimbra.com:9071
10 [2025-04-04 04:15:13] [INFO] Connected to zimbra.com:9071.
11 [2025-04-04 04:15:13] [INFO] Fetching Zimbra admin authentication token...
12 [2025-04-04 04:15:13] [INF0] Admin Auth Token fetched.
13 [2025-04-04 04:15:13] [INFO] Fetching Zimbra license information.
14 [2025-04-04 04:15:13] [INFO] License information retrieved.
15 [2025-04-04 04:15:13] [INFO] Chat services are supported by the existing Zimbra license.
16 Enter Chat Server Hostname: chat1.mydomain.com
17 [2025-04-04 04:15:20] [INFO] Checking resolution for hostname: chatl.mydomain.com
18 [2025-04-04 04:15:20] [WARN] Hostname 'chatl.mydomain.com' is not resolvable via DNS. Checking /etc/hosts.
19 [2025-04-04 04:15:20] [INFO] Hostname 'chatl.mydomain.com' found in /etc/hosts. Proceeding.
20 Enter Zulip Version (Available: 9.2): 9.2
21 Enter Chat Server SSL Certificate Type (commercial, letsencrypt, self-signed): letsencrypt
22 Enter LDAP/AD Source (Zimbra LDAP, External LDAP, AD): Zimbra LDAP
23 Enter Zimbra JWT Auth Key: SECRET_KEY
24 Enter URLs of Zimbra web client (comma-separated if multiple): https://web.mydomain.com
25 Please read the latest Let's Encrypt Subscriber Agreement at:
26 https://letsencrypt.org/repository/#let-s-encrypt-subscriber-agreement
27 You must agree in order to register with the ACME server.
28 You must agree to the Let's Encrypt Subscriber Agreement to proceed.
29 Do you agree? (yes/no): yes
30 [2025-04-04 04:14:32] [INFO] Let's Encrypt certificate selected. DNS registration is mandatory for Chat Server
  Hostname.
31 [2025-04-04 04:14:33] [INFO] Chat Server Hostname is publicly resolvable.
32 Enter Zimbra LDAP Host: zimbra.com
33 Enter Zimbra LDAP Port: 389
34 Enter Zimbra LDAP Password: LDAP_PASSWORD
35 Enter Zimbra LDAP Protocol (ldap/ldaps): ldap
36 [2025-04-04 04:15:50] [INFO] Checking connectivity to ldap server at zimbra.com:389
37 [2025-04-04 04:15:50] [INF0] Connected to ldap server at zimbra.com:389
38 [2025-04-04 04:15:50] [INFO] Package already exists: /etc/zulip-installer/package/zulip-server-9.2.tar.gz
39 [2025-04-04 04:15:50] [INFO] The following configuration will be used:
40 [2025-04-04 04:15:50] [INFO] Zulip version: 9.2
41 [2025-04-04 04:15:50] [INF0] Zulip service type: Combined
42 [2025-04-04 04:15:50] [INFO] Zulip/Chat server hostname: chat1.mydomain.com
43 [2025-04-04 04:15:50] [INFO] Chat server SSL certificate type: letsencrypt
44 [2025-04-04 04:15:50] [INFO] Zulip admin email: admin@domainl.example.com
45 [2025-04-04 04:15:50] [INFO] LDAP/AD Source: Zimbra LDAP
46 [2025-04-04 04:15:50] [INFO] URL's of Zimbra web client: https://web.mydomain.com
47 The system will be modified - continue? (yes/no): yes
48 [2025-04-03 06:47:51] [INFO] Saving user inputs to config file: /etc/zulip-
  installer/config/config.20250403_064751
49 [2025-04-03 06:47:51] [INFO] User inputs saved to config file.
50 [2025-04-03 06:47:51] [INFO] Starting: Adding universe repository. Please wait.
51 [2025-04-03 06:48:00] [INFO] Completed: Adding universe repository
52 [2025-04-03 06:48:00] [INFO] Starting: Updating package lists. Please wait.
53 [2025-04-03 06:48:02] [INFO] Completed: Updating package lists
54 [2025-04-03 06:48:02] [INFO] Starting: Extracting Zulip package. Please wait.
55 [2025-04-03 06:48:03] [INFO] Completed: Extracting Zulip package
56 [2025-04-03 06:48:03] [INFO] Starting: Zulip and PostgreSQL installation. Please wait.
57 [2025-04-03 06:48:52] [INFO] Zulip and PostgreSQL installation is still in progress
58 [2025-04-03 06:49:22] [INFO] Zulip and PostgreSQL installation is still in progress
59 [2025-04-03 07:30:28] [INFO] Completed: Zulip and PostgreSQL installation
60 [2025-04-03 07:30:28] [INFO] Package downloaded: /etc/zulip-installer/package/chat-customizations-9.2.tar.gz
61 [2025-04-03 07:30:28] [INF0] Applying Zulip customizations...
62 [2025-04-03 07:30:29] [INFO] Zulip customizations applied successfully.
```

[2025-04-03 07:30:29] [INF0] Updated /etc/zulip/settings.py.
[2025-04-03 07:30:29] [INF0] Updated /etc/zulip/zulip-secrets.conf.
[2025-04-03 07:30:29] [INF0] Restarting nginx.service...
[2025-04-03 07:30:29] [INF0] Starting: Restarting nginx.service. Please wait.
[2025-04-03 07:30:29] [INF0] Completed: Restarting nginx.service
[2025-04-03 07:30:29] [INF0] Restarting zulip...
[2025-04-03 07:30:29] [INF0] Starting: Restarting zulip. Please wait.
[2025-04-03 07:30:29] [INF0] Starting: Restarting zulip. Please wait.
[2025-04-03 07:30:29] [INF0] Starting: Restarting zulip.
[2025-04-03 07:30:29] [INF0] Completed: Restarting zulip.
[2025-04-03 07:31:06] [INF0] Complete

Install Standalone Zulip 🖉

1. Download the Chat Installer .tgz from the link below. Kindly verify the SHA256 and MD5 checksums as well.

- 1 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz
- 2 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz.md5
- 3 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz.sha256

2. Switch to the root user.

3. Extract the archive:

- 1 tar xf zfzi-1.0.0.tgz
- 2 cd zfzi-1.0.0
- 3 ./install.pl
- 4. The installer will prompt you to enter the Zulip Service Type (Standalone PostgreSQL, Standalone Zulip, Combined), choose Standalone Zulip.
- 1 [2025-04-02 09:20:48] [INFO] Logging initialized. Operations will be logged to /etc/zulipinstaller/log/zulip.install.log.20250402 092048
- 2 [2025-04-02 09:20:48] [INFO] Detected OS: ubuntu:24.04, Architecture: aarch64. Proceeding.
- 3 [2025-04-02 09:20:48] [INFO] All required commands are already installed.
- 4 Enter Zulip Service Type (Available: Standalone PostgreSQL, Standalone Zulip, Combined): Standalone Zulip
- 5. The installer will prompt you to provide the Zimbra Proxy Host, Zimbra Proxy Admin Port, Zulip Admin Email, and Zulip Admin Email Account Password. Please enter your inputs accordingly.
- 1 Enter Zimbra Proxy Host: zimbra.com
- 2 Enter Zimbra Proxy Admin Port: 9071
- 3 Enter Zulip Admin Email: admin@domain1.example.com
- 4 Enter Zulip Admin Email Account Password: PASSWORD

6. The installer will then verify connectivity to the Zimbra Proxy Host and validate the license using the information you provided.

- 1 [2025-04-02 09:21:09] [INF0] Checking connectivity to zimbra.com:9071
- 2 [2025-04-02 09:21:09] [INF0] Connected to zimbra.com:9071.
- 3 [2025-04-02 09:21:09] [INFO] Fetching Zimbra admin authentication token...
- 4 [2025-04-02 09:21:09] [INFO] Admin Auth Token fetched.
- 5 [2025-04-02 09:21:09] [INF0] Fetching Zimbra license information.
- 6 [2025-04-02 09:21:09] [INF0] License information retrieved.
- 7 [2025-04-02 09:21:09] [INFO] Chat services are supported by the existing Zimbra license.

7. The installer will prompt you to enter the Chat Server Hostname.

1 Enter Chat Server Hostname: chat1.mydomain.com

- 2 [2025-04-04 04:15:20] [INFO] Checking resolution for hostname: chat1.mydomain.com
- 3 [2025-04-04 04:15:20] [WARN] Hostname 'chat1.mydomain.com' is not resolvable via DNS. Checking /etc/hosts.
- 4 [2025-04-04 04:15:20] [INFO] Hostname 'chatl.mydomain.com' found in /etc/hosts. Proceeding.

8. The installer will prompt you to enter the Zulip Version.

1 Enter Zulip Version (Available: 9.2): 9.2

- 9. The installer will prompt you to enter the Chat Server SSL Certificate Type, LDAP/AD Source, Zimbra JWT Auth Key, URLs of Zimbra web client. Please enter your inputs accordingly.
- 1 Enter Chat Server SSL Certificate Type (commercial, letsencrypt, self-signed): letsencrypt
- 2 Enter LDAP/AD Source (Zimbra LDAP, External LDAP, AD): Zimbra LDAP
- 3 Enter Zimbra JWT Auth Key: SECRET_KEY
- 4 Enter URLs of Zimbra web client (comma-separated if multiple): https://web.mydomain.com
- 10. If you selected letsencrypt as the Chat Server SSL Certificate Type, the installer will prompt you to accept the Let's Encrypt Subscriber Agreement. You must agree to proceed with the installation.
- 1 Please read the latest Let's Encrypt Subscriber Agreement at:
- 2 https://letsencrypt.org/repository/#let-s-encrypt-subscriber-agreement
- 3 You must agree in order to register with the ACME server.
- 4 You must agree to the Let's Encrypt Subscriber Agreement to proceed.
- 5 Do you agree? (yes/no): yes
- 11. If you selected letsencrypt or commercia as the Chat Server SSL Certificate Type, the installer will check whether the Chat Server Hostname is publicly resolvable.
- 1 [2025-04-02 09:21:20] [INFO] Let's Encrypt certificate selected. DNS registration is mandatory for Chat Server Hostname.
- 2 [2025-04-02 09:21:21] [INFO] Chat Server Hostname is publicly resolvable.
- 12. The installer will prompt for LDAP details based on the LDAP/AD Source you specified. Please provide the requested information accordingly. If you have multiple LDAP servers, choose one of them to use.
- 1 Enter Zimbra LDAP Host: zimbra.com
- 2 Enter Zimbra LDAP Port: 389
- 3 Enter Zimbra LDAP Password: LDAP_PASSWORD
- 4 Enter Zimbra LDAP Protocol (ldap/ldaps): ldap

13. The installer will check connectivity to the LDAP server.

- 1 [2025-04-02 09:21:51] [INFO] Checking connectivity to ldap server at zimbra.com:389
- 2 [2025-04-02 09:21:51] [INF0] Connected to ldap server at zimbra.com:389
- 3 [2025-04-02 09:21:51] [INFO] Creating package directory: /etc/zulip-installer/package
- 4 [2025-04-02 09:21:52] [INFO] Package downloaded: /etc/zulip-installer/package/zulip-server-9.2.tar.gz
- 14. The installer will ask, Have you installed PostgreSQL on another VM, and is it ready for use? (yes/no). You should answer no, as we're first installing Standalone Zulip and the standalone PostgreSQL setup is not yet complete.
- 1 Have you installed PostgreSQL on another VM, and is it ready for use? (yes/no): no
- 2 ! IMPORTANT: Once the current installation is complete, install and configure Remote PostgreSQL. Then, rerun the script with option `--use-remote-db` to finish setup.
- 15. The installer will prompt with "The system will be modified continue? (yes/no):". You need to enter yes to proceed with the installation.
 - 1 [2025-04-02 09:21:54] [INFO] The following configuration will be used:
 - 2 [2025-04-02 09:21:54] [INFO] Zulip version: 9.2
 - 3 [2025-04-02 09:21:54] [INFO] Zulip service type: Standalone Zulip

```
4 [2025-04-02 09:21:54] [INF0] Zulip/Chat server hostname: chat1.mydomain.com
5 [2025-04-02 09:21:54] [INF0] Chat server SSL certificate type: letsencrypt
6 [2025-04-02 09:21:54] [INF0] Zulip admin email: admin@domain1.example.com
7 [2025-04-02 09:21:54] [INF0] LDAP/AD Source: Zimbra LDAP
8 [2025-04-02 09:21:54] [INF0] URL's of Zimbra web client: https://web.mydomain.com
9
10 The system will be modified - continue? (yes/no): yes
```

16. The installation process will begin and may take some time to complete. Please wait while the setup finishes.

17. The installation output will look like the following (it may vary depending on the inputs provided):

1 [2025-04-02 09:20:48] [INFO] Logging initialized. Operations will be logged to /etc/zulipinstaller/log/zulip.install.log.20250402 092048 2 [2025-04-02 09:20:48] [INFO] Detected OS: ubuntu:24.04, Architecture: aarch64. Proceeding. 3 [2025-04-02 09:20:48] [INFO] All required commands are already installed. 4 Enter Zulip Service Type (Available: Standalone PostgreSQL, Standalone Zulip, Combined): Standalone Zulip 5 Enter Zimbra Proxy Host: zimbra.com 6 Enter Zimbra Proxy Admin Port: 9071 7 Enter Zulip Admin Email: admin@domain1.example.com 8 Enter Zulip Admin Email Account Password: 9 [2025-04-02 09:21:09] [INF0] Checking connectivity to zimbra.com:9071 10 [2025-04-02 09:21:09] [INFO] Connected to zimbra.com:9071. 11 [2025-04-02 09:21:09] [INF0] Fetching Zimbra admin authentication token... 12 [2025-04-02 09:21:09] [INFO] Admin Auth Token fetched. 13 [2025-04-02 09:21:09] [INFO] Fetching Zimbra license information. 14 [2025-04-02 09:21:09] [INFO] License information retrieved. 15 [2025-04-02 09:21:09] [INFO] Chat services are supported by the existing Zimbra license. 16 Enter Chat Server Hostname: chat1.mydomain.com 17 [2025-04-02 09:21:19] [INF0] Checking resolution for hostname: chatl.mydomain.com 18 [2025-04-02 09:21:19] [WARN] Hostname 'chatl.mydomain.com' is not resolvable via DNS. Checking /etc/hosts. 19 [2025-04-02 09:21:19] [INFO] Hostname 'chat1.mydomain.com' found in /etc/hosts. Proceeding. 20 Enter Zulip Version (Available: 9.2): 9.2 21 Enter Chat Server SSL Certificate Type (commercial, letsencrypt, self-signed): letsencrypt 22 Enter LDAP/AD Source (Zimbra LDAP, External LDAP, AD): Zimbra LDAP 23 Enter Zimbra JWT Auth Key: SECRET_KEY 24 Enter URLs of Zimbra web client (comma-separated if multiple): https://web.mydomain.com 25 Please read the latest Let's Encrypt Subscriber Agreement at: 26 https://letsencrypt.org/repository/#let-s-encrypt-subscriber-agreement 27 You must agree in order to register with the ACME server. 28 You must agree to the Let's Encrypt Subscriber Agreement to proceed. 29 Do you agree? (yes/no): yes 30 [2025-04-02 09:21:20] [INFO] Let's Encrypt certificate selected. DNS registration is mandatory for Chat Server Hostname. 31 [2025-04-02 09:21:21] [INFO] Chat Server Hostname is publicly resolvable. 32 Enter Zimbra LDAP Host: zimbra.com 33 Enter Zimbra LDAP Port: 389 34 Enter Zimbra LDAP Password: 35 Enter Zimbra LDAP Protocol (ldap/ldaps): ldap 36 [2025-04-02 09:21:51] [INFO] Checking connectivity to ldap server at zimbra.com:389 37 [2025-04-02 09:21:51] [INFO] Connected to ldap server at zimbra.com:389 38 [2025-04-02 09:21:51] [INF0] Creating package directory: /etc/zulip-installer/package 39 [2025-04-02 09:21:52] [INFO] Package downloaded: /etc/zulip-installer/package/zulip-server-9.2.tar.gz 40 Have you installed PostgreSQL on another VM, and is it ready for use? (yes/no): no 41 ! IMPORTANT: Once the current installation is complete, install and configure Remote PostgreSQL. Then, rerun the script with option `--use-remote-db` to finish setup. 42 [2025-04-02 09:21:54] [INFO] The following configuration will be used: 43 [2025-04-02 09:21:54] [INF0] Zulip version: 9.2 44 [2025-04-02 09:21:54] [INFO] Zulip service type: Standalone Zulip

```
45 [2025-04-02 09:21:54] [INFO] Zulip/Chat server hostname: chat1.mydomain.com
46 [2025-04-02 09:21:54] [INFO] Chat server SSL certificate type: letsencrypt
47 [2025-04-02 09:21:54] [INFO] Zulip admin email: admin@domainl.example.com
48 [2025-04-02 09:21:54] [INFO] LDAP/AD Source: Zimbra LDAP
49 [2025-04-02 09:21:54] [INFO] URL's of Zimbra web client: https://web.mydomain.com
50 The system will be modified - continue? (yes/no): yes
51 [2025-04-02 09:21:56] [INFO] Saving user inputs to config file: /etc/zulip-
   installer/config/config.20250402_092156
52 [2025-04-02 09:21:56] [INFO] User inputs saved to config file.
53 [2025-04-02 09:21:56] [INFO] Starting: Adding universe repository. Please wait.
54 [2025-04-02 09:22:01] [INF0] Completed: Adding universe repository
55 [2025-04-02 09:22:01] [INFO] Starting: Updating package lists. Please wait.
56 [2025-04-02 09:22:03] [INFO] Completed: Updating package lists
57 [2025-04-02 09:22:03] [INFO] Starting: Extracting Zulip package. Please wait.
58 [2025-04-02 09:22:05] [INFO] Completed: Extracting Zulip package
59 [2025-04-02 09:22:05] [INFO] Starting: Standalone Zulip installation. Please wait.
60 [2025-04-02 09:28:27] [INFO] Standalone Zulip installation is still in progress
61 [2025-04-02 09:28:57] [INFO] Standalone Zulip installation is still in progress
62 [2025-04-02 09:29:27] [INFO] Standalone Zulip installation is still in progress
63 [2025-04-02 09:42:41] [INFO] Completed: Standalone Zulip installation
64 [2025-04-02 09:42:41] [INFO] Package downloaded: /etc/zulip-installer/package/chat-customizations-9.2.tar.gz
65 [2025-04-02 09:42:41] [INFO] Applying Zulip customizations...
66 [2025-04-02 09:42:42] [INFO] Zulip customizations applied successfully.
67 [2025-04-02 09:42:42] [INFO] Updated /etc/zulip/settings.py.
68 [2025-04-02 09:42:42] [INFO] Updated /etc/zulip/zulip-secrets.conf.
69 [2025-04-02 09:42:42] [INF0] Restarting nginx.service...
70 [2025-04-02 09:42:42] [INFO] Starting: Restarting nginx.service. Please wait.
71 [2025-04-02 09:42:43] [INFO] Completed: Restarting nginx.service
72 ! IMPORTANT: Admins should ensure that zimbra mailstore servers can resolve the Chat server hostname and
   access Chat server on 443 port!
```

```
73 ! IMPORTANT: Please visit admin guide to proceed to realm setup
```

Install Standalone PostgreSQL 🖉

1. Download the Chat Installer .tgz from the link below. Kindly verify the SHA256 and MD5 checksums as well.

- 1 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz
- 2 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz.md5
- 3 https://files.zimbra.com/downloads/zfzi/1.0.0/zfzi-1.0.0.tgz.sha256

2. Switch to the root user.

```
3. Extract the archive:
```

```
1 tar xf zfzi-1.0.0.tgz
```

```
2 cd zfzi-1.0.0
```

```
3 ./install.pl
```

- 4. The installer will prompt you to enter the Zulip Service Type (Standalone PostgreSQL, Standalone Zulip, Combined), choose Standalone PostgreSQL.
- 1 [2025-03-23 17:04:57] [INFO] Logging initialized. Operations will be logged to /etc/zulipinstaller/log/zulip.install.log.20250323_170457
- 2 [2025-03-23 17:04:57] [INFO] Detected OS: ubuntu:22.04, Architecture: aarch64. Proceeding...
- 3 [2025-03-23 17:04:57] [INFO] All required commands are already installed.
- 4 Enter Zulip Service Type (Available: Standalone PostgreSQL, Standalone Zulip, Combined) : Standalone PostgreSQL

5. The installer will prompt you to provide the Zimbra Proxy Host, Zimbra Proxy Admin Port, Zulip Admin Email, and Zulip Admin Email Account Password. Please enter your inputs accordingly.

- 1 Enter Zimbra Proxy Host: zimbra.com
- 2 Enter Zimbra Proxy Admin Port: 9071
- 3 Enter Zulip Admin Email: admin@domain1.example.com
- 4 Enter Zulip Admin Email Account Password: PASSWORD

6. The installer will then verify connectivity to the Zimbra Proxy Host and validate the license using the information you provided.

- 1 [2025-03-23 17:05:01] [INFO] Checking connectivity to zimbra.com:9071...
- 2 [2025-03-23 17:05:01] [INFO] Successfully connected to zimbra.com:9071.
- 3 [2025-03-23 17:05:01] [INFO] Fetching Zimbra admin authentication token...
- 4 [2025-03-23 17:05:01] [INFO] Admin Auth Token fetched successfully.
- 5 [2025-03-23 17:05:01] [INFO] Fetching Zimbra license information...
- 6 [2025-03-23 17:05:01] [INFO] License information retrieved successfully.
- 7 [2025-03-23 17:05:01] [INFO] Chat services are supported by the existing Zimbra license.

7. The installer will prompt you to enter the Zulip Version.

1 Enter Zulip Version (Available: 9.2) : 9.2

- 8. The installer will prompt you to enter the Zulip server IP that will be visible when connected to the PostgreSQL instance, as well as the PostgreSQL server password to set for the zulip user. Please provide these details accordingly.
- 1 Enter Zulip server IP visible when connected to this PostgreSQL instance : IP ADDRESS
- 2 Enter PostgreSQL server password to set for the zulip user: ZULIP_USER_PASSWORD

9. The installer will display:

```
The system will be modified - continue? (yes/no):
```

```
Enter yes to proceed.
```

```
1 [2025-03-23 17:05:10] [INFO] Package downloaded : /etc/zulip-installer/package/zulip-server-9.2.tar.gz
2 [2025-03-23 17:05:11] [INFO] The following configuration will be used:
3 [2025-03-23 17:05:11] [INFO] Zulip server ip: IP_ADDRESS
4 [2025-03-23 17:05:11] [INFO] Zulip version: 9.2
5 [2025-03-23 17:05:11] [INFO] Zulip service type: Standalone PostgreSQL
6
7 The system will be modified - continue? (yes/no): yes
```

10. The installation process will begin and may take some time to complete. Please wait while the setup finishes.

11. The installation output will look like the following (it may vary depending on the inputs provided):

- 1 [2025-03-23 17:04:57] [INFO] Logging initialized. Operations will be logged to /etc/zulipinstaller/log/zulip.install.log.20250323_170457
- 2 [2025-03-23 17:04:57] [INFO] Detected 0S: ubuntu:22.04, Architecture: aarch64. Proceeding...
- 3 [2025-03-23 17:04:57] [INFO] All required commands are already installed.
- 4 Enter Zulip Service Type (Available: Standalone PostgreSQL, Standalone Zulip, Combined) : Standalone PostgreSQL
- 5 Enter Zimbra Proxy Host : zimbra.com
- 6 Enter Zimbra Proxy Admin Port : 9071
- 7 Enter Zulip Admin Email: admin@domain1.example.com
- 8 Enter Zimbra Admin Account Password: PASSWORD
- 9 [2025-03-23 17:05:01] [INFO] Checking connectivity to zimbra.com:9071...
- 10 [2025-03-23 17:05:01] [INFO] Successfully connected to zimbra.com:9071.
- 11 [2025-03-23 17:05:01] [INFO] Fetching Zimbra admin authentication token...
- 12 [2025-03-23 17:05:01] [INFO] Admin Auth Token fetched successfully.
- 13 [2025-03-23 17:05:01] [INFO] Fetching Zimbra license information...
- 14 [2025-03-23 17:05:01] [INFO] License information retrieved successfully.
- 15 [2025-03-23 17:05:01] [INFO] Chat services are supported by the existing Zimbra license.
- 16 Enter Zulip Version (Available: 9.2) : 9.2
- 17 Enter Zulip server IP visible when connected to this PostgreSQL instance : IP_ADDRESS

```
18 Enter PostgreSQL server password to set for the zulip user: ZULIP USER PASSWORD
19 [2025-03-23 17:05:10] [INFO] Package downloaded : /etc/zulip-installer/package/zulip-server-9.2.tar.gz
20 [2025-03-23 17:05:11] [INFO] The following configuration will be used:
21 [2025-03-23 17:05:11] [INF0] Zulip server ip: IP ADDRESS
22 [2025-03-23 17:05:11] [INF0] Zulip version: 9.2
23 [2025-03-23 17:05:11] [INFO] Zulip service type: Standalone PostgreSQL
24 The system will be modified - continue? (yes/no): yes
25 [2025-03-23 17:05:14] [INFO] Saving user inputs to config file: /etc/zulip-
  installer/config/config.20250323 170514
26 [2025-03-23 17:05:14] [INFO] User inputs saved successfully to config file.
27 [2025-03-23 17:05:14] [INFO] Starting: Adding universe repository
28 [2025-03-23 17:05:21] [INFO] Completed: Adding universe repository
29 [2025-03-23 17:05:21] [INFO] Starting: Updating package lists
30 [2025-03-23 17:05:24] [INFO] Completed: Updating package lists
31 [2025-03-23 17:05:24] [INFO] Removing existing extracted zulip directory: /tmp/zulip-server-9.2
32 [2025-03-23 17:05:24] [INFO] Starting: Removing old extracted zulip
33 [2025-03-23 17:05:24] [INFO] Completed: Removing old extracted zulip
34 [2025-03-23 17:05:25] [INFO] Starting: Extracting Zulip package
35 [2025-03-23 17:05:26] [INFO] Completed: Extracting Zulip package
36 [2025-03-23 17:05:26] [INF0] Starting: Running Standalone PostgreSQL installation
37 [2025-03-23 17:05:35] [INFO] Completed: Running Standalone PostgreSQL installation
38 [2025-03-23 17:05:35] [INFO] Starting: Running PostgreSQL create database
39 [2025-03-23 17:05:35] [INF0] Completed: Running PostgreSQL create database
40 [2025-03-23 17:05:35] [INFO] PostgreSQL create database completed.
41 [2025-03-23 17:05:35] [INFO] Detected PostgreSQL version: 16
42 ! IMPORTANT: Added a rule to allow the `zulip` user to connect to the `zulip` database from 10.0.0.224 using
   scram-sha-256 authentication.
43 ! IMPORTANT: If changes are needed to the PostgreSQL authentication configuration, please modify the
   /etc/postgresql/16/main/pg_hba.conf file.
44 [2025-03-23 17:05:35] [INF0] Restarting postgresql.service...
45 [2025-03-23 17:05:38] [INFO] postgresql.service restarted successfully.
46 [2025-03-23 17:05:38] [INFO] Checking if PostgreSQL is accessible on host: localhost...
47 [2025-03-23 17:05:38] [INFO] PostgreSQL is accessible on localhost.
48 [2025-03-23 17:05:38] [INF0] Setting Zulip database user password...
49 [2025-03-23 17:05:38] [INFO] Zulip database password set successfully.
50 ! IMPORTANT: Admins should ensure that databases are on a private network and not publicly accessible!
```

51 ! IMPORTANT: Admins should ensure that Chat server can access the PostgreSQL server on port 5432!

52 Configuration complete

Configure Standalone Zulip Server with Standalone PostgreSQL 🖉

- 1. Return to Standalone Zulip Server
- 2. run ./install.pl --use-remote-db to configure Standalone Zulip Server with Standalone PostgreSQL.
- 3. The installer will prompt with Have you installed PostgreSQL on another VM, and is it ready for use? (yes/no): . You should enter yes, as PostgreSQL has already been installed and is ready for use.
- 1 [2025-03-26 11:41:05] [INFO] Logging initialized. Operations will be logged to /etc/zulipinstaller/log/zulip.configure-remote-db.log.20250326 114105
- 2 [2025-03-26 11:41:05] [INFO] Detected OS: ubuntu:24.04, Architecture: x86 64. Proceeding.
- 3 Have you installed PostgreSQL on another VM, and is it ready for use? (yes/no): yes

4. The installer will prompt you to enter the PostgreSQL server details. Please provide the information accordingly.

- 1 Enter Name or IP address of the PostgreSQL server: POSTGRESQL_SERVER
- 2 Enter PostgreSQL server port: 5432
- 3 Enter PostgreSQL server password for the zulip user: PASSWORD
- 4 Enter PostgreSQL server version: 16

5 Enter desired SSL mode for the PostgreSQL connection (disable, allow, prefer, require, verify-ca, verify-full): require

5. The installer will check whether the PostgreSQL server is accessible and proceed accordingly based on the result.

```
    [2025-03-26 11:41:35] [INFO] Checking if PostgreSQL is accessible on host: .
    [2025-03-26 11:41:35] [INFO] PostgreSQL is accessible on .
    [2025-03-26 11:41:35] [INFO] Configuring Zulip to use remote PostgreSQL.
    [2025-03-26 11:41:35] [INFO] Updated /etc/zulip/settings.py with remote PostgreSQL details.
    [2025-03-26 11:41:35] [INFO] Updated /etc/zulip/zulip-secrets.conf with PostgreSQL password.
    [2025-03-26 11:41:35] [INFO] Updated /etc/zulip/zulip.conf with PostgreSQL version.
    [2025-03-26 11:41:36] [INFO] Updated /etc/zulip/zulip.conf with PostgreSQL version.
    [2025-03-26 11:41:36] [INFO] Configured Zulip for remote PostgreSQL.
    [2025-03-26 11:41:35] [INFO] Starting: Initializing the PostgreSQL database. Please wait.
    [2025-03-26 11:41:37] [INFO] Completed: Initializing the PostgreSQL database
    [2025-03-26 11:41:38] [INFO] Starting: Generating realm creation link. Please wait.
    [2025-03-26 11:41:39] [INFO] Completed: Generating realm creation link
    [2025-03-26 11:41:39] [INFO] Completed: Generating realm creation link
```

6. The configuration output will look like the following (it may vary depending on the inputs provided):

1 [2025-03-26 11:41:05] [INFO] Logging initialized. Operations will be logged to /etc/zulipinstaller/log/zulip.configure-remote-db.log.20250326_114105 2 [2025-03-26 11:41:05] [INFO] Detected OS: ubuntu:24.04, Architecture: x86 64. Proceeding. 3 Have you installed PostgreSQL on another VM, and is it ready for use? (yes/no): yes 4 Enter Name or IP address of the PostgreSQL server: POSTGRESQL_SERVER 5 Enter PostgreSQL server port: 5432 6 Enter PostgreSQL server password for the zulip user: PASSWORD 7 Enter PostgreSQL server version: 16 8 Enter desired SSL mode for the PostgreSQL connection (disable, allow, prefer, require, verify-ca, verifyfull): require 9 [2025-03-26 11:41:35] [INFO] Checking if PostgreSQL is accessible on host: . 10 [2025-03-26 11:41:35] [INFO] PostgreSQL is accessible on . 11 [2025-03-26 11:41:35] [INFO] Configuring Zulip to use remote PostgreSQL. 12 [2025-03-26 11:41:35] [INFO] Updated /etc/zulip/settings.py with remote PostgreSQL details. 13 [2025-03-26 11:41:35] [INFO] Updated /etc/zulip/zulip-secrets.conf with PostgreSQL password. 14 [2025-03-26 11:41:35] [INFO] Updated /etc/zulip/zulip.conf with PostgreSQL version. 15 [2025-03-26 11:41:36] [INFO] Configured Zulip for remote PostgreSQL. 16 [2025-03-26 11:41:35] [INFO] Starting: Initializing the PostgreSQL database. Please wait. 17 [2025-03-26 11:41:37] [INFO] Completed: Initializing the PostgreSQL database 18 [2025-03-26 11:41:38] [INFO] Starting: Generating realm creation link. Please wait. 19 [2025-03-26 11:41:39] [INFO] Completed: Generating realm creation link

20 Configuration complete.

Configuration & Logging @

- User Inputs Storage: /etc/zulip-installer/config/
 - · Passwords are not stored in config, including:
 - Zulip Admin Password
 - PostgreSQL Password
 - LDAP/AD Password
- Log Files Locations:
 - Installer Logs: /etc/zulip-installer/log/
 - Zulip Logs: /var/log/zulip/
 - PostgreSQL Logs: /var/log/postgresql/

Installation using config file 🖉

The installer supports non-interactive mode via a specified configuration file. Use the following command to install using a specific configuration file in non-interactive mode: ./install.pl --config=<file>

All configuration keys must be defined in the config file according to the requirements of the selected service type.

Config file keys descriptions @

ZULIP_SERVICE_TYPE: Type of Zulip service to install. Options: Standalone PostgreSQL, Standalone Zulip, or Combined.

ZIMBRA_PROXY_HOST: Hostname (FQDN) of Zimbra admin console proxy URL.

ZIMBRA_PROXY_ADMIN_PORT: Admin console proxy port on the Zimbra proxy server (typically 9071).

ZIMBRA_JWT_AUTH_KEY: The zimbraChatJwtSecret value configured in your Zimbra environment.

CSRF_TRUSTED_ORIGINS: Comma-separated list of all accessible Zimbra web client URLs (e.g., https://web.mydomain.com, https://virtual_domainl.example.com).

ZULIP_ADMIN_EMAIL: Email address of an existing administrator in Zimbra.

ZULIP_ADMIN_PASSWORD: Password of the above admin account in Zimbra.

ZULIP_VERSION: Supported Zulip version. Currently: 9.2.

ZULIP_SERVER_IP: Private IP address of the Zulip server, used by PostgreSQL to allow trusted connections.

CHAT_SERVER_HOSTNAME: Fully Qualified Domain Name (FQDN) of the Zulip/Chat server.

SSL_CERT_TYPE: SSL certificate type. Options: commercial, letsencrypt, self-signed.

LETS_ENCRYPT_AGREEMENT: Must be set to yes if SSL_CERT_TYPE is letsencrypt. Indicates agreement to the Let's Encrypt Subscriber Agreement.

LDAP_AD_SOURCE: Directory source for user authentication. Options: Zimbra LDAP, External LDAP, or AD.

ZIMBRA_LDAP_HOST: Hostname of the Zimbra LDAP server. If you have multiple LDAP servers, choose one of them to use.

ZIMBRA_LDAP_PORT: Port used to connect to the Zimbra LDAP server.

ZIMBRA_LDAP_PASSWORD: Password used for Zimbra LDAP authentication.

ZIMBRA_LDAP_PROTOCOL: Protocol for Zimbra LDAP connection. Options: ldap, ldaps.

EXTERNAL_LDAP_HOST: Hostname of the external LDAP or Active Directory server. If you have multiple LDAP/AD servers, choose one of them to use.

EXTERNAL_LDAP_PORT: Port used by the external LDAP/AD server.

EXTERNAL_LDAP_PASSWORD: Password for connecting to the external LDAP/AD server.

AUTH_LDAP_BIND_DN: Distinguished Name (DN) used for LDAP/AD binding.

LDAP_EMAIL_ATTRIBUTE: Attribute name that holds the user's email in LDAP/AD.

LDAP_FULLNAME_ATTRIBUTE: Attribute name that holds the user's full name in LDAP/AD.

EXTERNAL_LDAP_PROTOCOL: Protocol used for external LDAP/AD. Options: ldap, ldaps.

REMOTE_POSTGRES_READY: yes or no. Indicates whether PostgreSQL is already installed and ready on another VM.

POSTGRES_HOST: Hostname or IP address of the remote PostgreSQL server.

POSTGRES_PORT: Port on which PostgreSQL is running (typically 5432).

POSTGRES_VERSION: Version of the PostgreSQL server. Can be retrieved from /etc/zulip/zulip.conf on the PostgreSQL host.

POSTGRES_PASSWORD: Password to assign for the Zulip user in the PostgreSQL database.

POSTGRES_SSL_MODE: SSL mode to use when connecting to PostgreSQL.

• For more details refer official PostgreSQL docs: SSL modes.

Config File Examples @

Combined (Zulip + PostgreSQL)

- 1 ZULIP_SERVICE_TYPE=Combined
- 2 ZIMBRA_PROXY_HOST=
- 3 ZIMBRA_PROXY_ADMIN_PORT=
- 4 ZULIP_ADMIN_EMAIL=
- 5 ZULIP_ADMIN_PASSWORD=
- 6 CHAT_SERVER_HOSTNAME=
- 7 ZULIP_VERSION=
- 8 SSL_CERT_TYPE=commercial/letsencrypt/self-signed
- 9 ZIMBRA_JWT_AUTH_KEY=
- 10 CSRF_TRUSTED_ORIGINS=
- 11 LDAP_AD_SOURCE=Zimbra LDAP / External LDAP / AD

If SSL_CERT_TYPE=letsencrypt , include:

1 LETS_ENCRYPT_AGREEMENT=yes

If LDAP_AD_SOURCE=Zimbra LDAP, include:

- 1 ZIMBRA LDAP HOST=
- 2 ZIMBRA_LDAP_PORT=
- 3 ZIMBRA_LDAP_PASSWORD=
- 4 ZIMBRA LDAP PROTOCOL=

If LDAP_AD_SOURCE=External LDAP / AD, include:

- 1 EXTERNAL_LDAP_HOST=
- 2 EXTERNAL_LDAP_PORT=
- 3 EXTERNAL_LDAP_PASSWORD=
- 4 AUTH_LDAP_BIND_DN=
- 5 LDAP EMAIL ATTRIBUTE=
- 6 LDAP_FULLNAME_ATTRIBUTE=
- 7 EXTERNAL_LDAP_PROTOCOL=

Standalone PostgreSQL @

- 1 ZULIP_SERVICE_TYPE=Standalone PostgreSQL
- 2 ZIMBRA_PROXY_HOST=
- 3 ZIMBRA_PROXY_ADMIN_PORT=
- 4 ZULIP_ADMIN_EMAIL=
- 5 ZULIP ADMIN PASSWORD=
- 6 ZULIP_VERSION=
- 7 ZULIP_SERVER_IP=
- 8 POSTGRES PASSWORD=

Standalone Zulip

- 1 ZULIP_SERVICE_TYPE=Standalone Zulip
- 2 ZIMBRA_PROXY_HOST=
- 3 ZIMBRA_PROXY_ADMIN_PORT=
- 4 ZULIP_ADMIN_EMAIL=

- 5 ZULIP_ADMIN_PASSWORD=
- 6 CHAT_SERVER_HOSTNAME=
- 7 ZULIP_VERSION=
- 8 SSL_CERT_TYPE=commercial/letsencrypt/self-signed
- 9 ZIMBRA_JWT_AUTH_KEY=
- 10 CSRF_TRUSTED_ORIGINS=
- 11 LDAP_AD_SOURCE=Zimbra LDAP / External LDAP / AD

If SSL_CERT_TYPE=letsencrypt , include:

1 LETS_ENCRYPT_AGREEMENT=yes

If LDAP_AD_SOURCE=Zimbra LDAP, include:

- 1 ZIMBRA_LDAP_HOST=
- 2 ZIMBRA_LDAP_PORT=
- 3 ZIMBRA_LDAP_PASSWORD=
- 4 ZIMBRA_LDAP_PROTOCOL=

If LDAP_AD_SOURCE=External LDAP / AD, include:

- 1 EXTERNAL_LDAP_HOST=
- 2 EXTERNAL LDAP PORT=
- 3 EXTERNAL_LDAP_PASSWORD=
- 4 AUTH_LDAP_BIND_DN=
- 5 LDAP_EMAIL_ATTRIBUTE=
- 6 LDAP_FULLNAME_ATTRIBUTE=
- 7 EXTERNAL_LDAP_PROTOCOL=

For remote PostgreSQL support, set:

```
1 REMOTE_POSTGRES_READY=yes/no
```

If REMOTE_POSTGRES_READY=yes , include:

- 1 POSTGRES_HOST=
- 2 POSTGRES PORT=
- 3 POSTGRES_PASSWORD=
- 4 POSTGRES_VERSION=
- 5 POSTGRES_SSL_MODE=

Configure Standalone Zulip Server with Standalone PostgreSQL

Run the installer with --use-remote-db and config file:

1 ./install.pl --use-remote-db --config=<file>

including the following in the config:

- 1 REMOTE_POSTGRES_READY=yes
- 2 POSTGRES_HOST=
- 3 POSTGRES_PORT=
- 4 POSTGRES_PASSWORD=
- 5 POSTGRES_VERSION=
- 6 POSTGRES_SSL_MODE=

Configure Chat server @

Major settings are defined in /etc/zulip/settings.py on Chat server. It is configured during the installation.

Configuration for authentication @

If you face an issue on user authentication, check the following settings:

```
1 ## Specify URI
2 ## If port number is not 389, specify port number as well.
3 ## If ldap over ssl is used, replace "ldap://" with "ldaps://"
4 AUTH LDAP SERVER URI = "ldap://LDAP HOST(:PORT)"
5
 6 ## Set a right BIND DN on your environment
7 AUTH_LDAP_BIND_DN = "uid=zimbra,cn=admins,cn=zimbra"
8
9 ## Configure user search query
10 ## Specify right objectClass(es) to search user accounts only.
11 AUTH LDAP USER SEARCH = LDAPSearch(
       "", ldap.SCOPE_SUBTREE, "(&(mail=%(user)s)(objectClass=zimbraAccount))"
12
13)
14
15 ## Specify an attribute which stores user's email address
16 LDAP EMAIL ATTR = "mail"
17 AUTH_LDAP_USERNAME_ATTR = "mail"
18
19 ## Specify the same objectClass(es) in search query as AUTH LDAP USER SEARCH
20 ## Note that "%(email)s" is used here. AUTH_LDAP_USER_SEARCH uses "%(user)s".
21 AUTH_LDAP_REVERSE_EMAIL_SEARCH = LDAPSearch("",
22
        ldap.SCOPE SUBTREE, "(&(mail=%(email)s)(objectClass=zimbraAccount))")
23
24 ## Specify an attribute which stores user's full name
25 AUTH LDAP USER ATTR MAP = {
      "full name": "cn",
26
27
      . . .
28 }
```

Only a single Idap server can be set in AUTH_LDAP_SERVER_URI. If Multi-Master Replication (MMR) is configured on your Idap servers, you can choose one of them for AUTH_LDAP_SERVER_URI.

Passwords are stored in /etc/zulip/zulip-secrets.conf. It is configured during the installation.

```
1 ## Zimbra LDAP Password specified at installation
2 ## It must be the same as zimbra_ldap_password in localconfig. (i.e. "zmlocalconfig -s zimbra_ldap_password")
3 auth_ldap_bind_password = LDAP_BIND_PASSWORD
4 
5 ## Zimbra JWT Auth Key specified at installation
6 zimbra_jwt_auth_key = RANDOM_STRING_SECRET_KEY
```

You can confirm that the Chat server can search an account on the Idap. Make sure that both full_name and email are returned.

imanage.py is a command to manage various items on the Chat server. query_ldap is one of options and sends Idap search query to a Idap server specified in AUTH_LDAP_SERVER_URI.

```
    (Run as zulip on Chat server)
    $/home/zulip/deployments/current/manage.py query_ldap userl@mydomain.com
    ...
    ful_name: userl
    email: userl@mydomain.com
```

If settings.py or zulip-secrets.conf is modified, Chat server application needs to be restarted.

```
1 (Run as zulip on Chat server)
```

```
2 $ /home/zulip/deployments/current/scripts/restart-server
```

Note: If your Idap server uses a self-signed certificate, LDAP access from Chat server will fail because of an untrusted certificate. To resolve this issue, a commercial certificate should be deployed on Idap servers.

If obtaining a commercial certificate is not feasible, you can disable certificate verification using the following setting. However, it is insecure.

It is not recommended on production.

🛕 Warning: auth_ldap_bind_password and zimbra_jwt_auth_key in /etc/zulip/zulip-secrets.conf are sensitive data.

Please make sure permission 640 (or 600) is set.

Please consider to plan to change zimbra_jwt_auth_key periodically.

If you install a Chat server with Chat Server SSL Certificate Type: Self-signed, Zimbra mailstore server cannot
 communicate with the Chat server because of an untrusted certificate.

To resolve this issue, you need to set ssl_allow_untrusted_certs to false on all mailstore servers so that each mailstore server does not check SSL certificate. However, it will affect not only on communication with Chat server but also all communication initiated from the mailstore server. It will cause security issue. **Do not apply it on production.**

- 1 (Run as zimbra on all Zimbra mailstore servers)
- 2 \$ zmlocalconfig -e ssl_allow_untrusted_certs=true
- 3 \$ zmmailboxdctl restart

Configuration to allow access from Zimbra web client 🖉

CSRF_TRUSTED_ORIGINS in /etc/zulip/settings.py must include all Zimbra web client URLs.

```
1 ## URLs of Zimbra web client specified at installation.
2 ## If virtual hostname is used on Zimbra for domain(s), all access urls need to be listed.
3 ## If access by IP address URL is allowed, it needs to be added as well.
4 (example 1)
5 CSRF_TRUSTED_ORIGINS = ["https://web.mydomain.com"]
6 
7 (example 2)
8 CSRF_TRUSTED_ORIGINS = ["https://web.mydomain.com", "https://virtual_domainl.example.com", "https://10.0.0.2"]
```

If it is modified, Chat server application needs to be restarted.

```
1 (Run as zulip on Chat server)
```

2 \$ /home/zulip/deployments/current/scripts/restart-server

Configuration for external LDAP and Active Directory 🖉

Here are examples of configuration for external LDAP and Active Directory.

```
1 ## Replace values of the following keys.
2
3 ## Specify URI
4 AUTH_LDAP_SERVER_URI = "ldap://YOUR_EXTERNAL_LDAP_HOST"
5
 6 ## If port number is not 389, specify port number as well.
7 ## If ldap over ssl is used, replace "ldap://" with "ldaps://"
 8 AUTH_LDAP_SERVER_URI = "ldap://YOUR_EXTERNAL_LDAP_HOST:12345"
9
10 ## Replace BIND DN to a right one on your environment
11 AUTH_LDAP_BIND_DN = "uid=zimbra,cn=admins,cn=zimbra"
12
13 ## Configure user search query
14 ## Specify right objectClass(es), depending on your ldap structure
15 AUTH_LDAP_USER_SEARCH = LDAPSearch(
       "", ldap.SCOPE SUBTREE, "(&(mail=%(user)s)(objectClass=zimbraAccount))"
16
17)
18
19 ## Specify an attribute which stores user's email address
20 LDAP EMAIL ATTR = "mail"
21 AUTH LDAP USERNAME ATTR = "mail"
22
23 ## Specify the same objectClass(es) in search query as AUTH_LDAP_USER_SEARCH
24 ## Note that "%(email)s" is used here. AUTH LDAP USER SEARCH specifies "%(user)s".
25 AUTH_LDAP_REVERSE_EMAIL_SEARCH = LDAPSearch("",
26
        ldap.SCOPE_SUBTREE, "(&(mail=%(email)s)(objectClass=zimbraAccount))")
27
28 ## Specify an attribute which stores user's full name
29 AUTH LDAP USER ATTR MAP = {
      "full_name": "cn",
30
31
       . . .
32 }
```

It is similar to external LDAP configuration on Zimbra.

For more details refer: III LDAP Authentication - Zimbra :: Tech Center

Active Directory

```
1 ## Replace values of the following keys.
2
3 ## Specify URI
4 AUTH_LDAP_SERVER_URI = "ldap://YOUR_AD_HOST:PORT"
5
 6 ## Replace BIND DN to a right one on your environment
7 ## If "Administrator" is an account to access your AD,
8 AUTH_LDAP_BIND_DN = "Administrator"
9
10 ## Configure user search query
11 ## Replace "mail" with an attribute which stores user's email address
12 ## Specify right objectClass(es), depending on your directory structure
13 AUTH LDAP USER SEARCH = LDAPSearch(
14
     "", ldap.SCOPE_SUBTREE, "(&(objectclass=organizationalPerson)(objectclass=person)(objectclass=user)(mail=%
   (user)s))"
15)
16
17 ## Specify an attribute which stores user's email address
18 LDAP EMAIL ATTR = "mail"
19 AUTH_LDAP_USERNAME_ATTR = "mail"
20
```

```
21 # Note that "%(email)s" is used here. AUTH_LDAP_USER_SEARCH specifies "%(user)s".
22 # To access by Active Directory email address
23 AUTH_LDAP_REVERSE_EMAIL_SEARCH = LDAPSearch(
24 "", ldap.SCOPE_SUBTREE, "(mail=%(email)s)"
25 )
26 
27 ## Specify an attribute which stores user's full name
28 AUTH_LDAP_USER_ATTR_MAP = {
29 "full_name": "cn",
30 ...
31 }
```

For another example, if userPrincipalName has an email address of a user,

```
AUTH_LDAP_USER_SEARCH = LDAPSearch(
    "", ldap.SCOPE_SUBTREE, "(&(objectclass=organizationalPerson)(objectclass=person)(objectclass=user)
    (userPrincipalName=%(user)s))"
    )
    LDAP_EMAIL_ATTR = "userPrincipalName"
    AUTH_LDAP_USERNAME_ATTR = "userPrincipalName"
    AUTH_LDAP_USERNAME_ATTR = "userPrincipalName"
    int the transmission of transmissi
```

It is similar to external Active Directory configuration on Zimbra.

For more details refer: E Configure authentication with Active Directory - Zimbra :: Tech Center

Common setting

Password for external LDAP or Active Directory access needs to be added to /etc/zulip/zulip-secrets.conf in the same way as using Zimbra LDAP.

```
1 auth_ldap_bind_password = LDAP_BIND_PASSWORD
```

Configure LDAP attributes @

After you can confirm that the Chat server can search an account on the Idap, some Idap attributes need to be configured.

- () A value of zimbraChatJwtSecret must be the same as the one of zimbra_jwt_auth_key configured on Chat server.
- 1 (Run as zimbra on a Zimbra mailstore server)
- 2 \$ zmprov mcf zimbraChatBaseHost chat1.mydomain.com
- 3 \$ zmprov mcf zimbraChatJwtSecret RANDOM_STRING_SECRET_KEY

```
4 $ zmprov fc -a all
```

i If you want to configure a different Chat server for domain(s), refer: Administrator Guide \rightarrow (Optional) Multiple domains and multiple chat servers section.

Create a realm for an existing domain @

A "realm" is an internal term of Chat server; it is corresponds to an individual Zimbra "domain". This "realm" has a unique URL (a realm URL) that the proxy and mailstore servers use to communicate with Chat server.

When you install the Chat server, you need to create manually realms for the domains which already exist on the Zimbra server. A realm for a domain created after the Chat server installation can be automatically propagated to the Chat server when the domain is created with <code>zimbraFeatureZulipChatEnabled TRUE</code>. i The format of a realm URL is https://[zimbraZulipChatDomainId].[zimbraChatBaseHost]. zimbraZulipChatBaseHost must be set before a realm is created. zimbraZulipChatDomainId is set during realm creation. zimbraZulipChatDomainId does not need to be set manually.

For example, when zimbraChatBaseHost is chat1.mydomain.com and zimbraZulipChatDomainId is domain1examplecom for a domain domain1.example.com, the realm URL for the domain is https://domain1examplecom.chat1.mydomain.com. Before realm creation, a hostname set in zimbraChatBaseHost (chat1.mydomain.com in this case) must be resolvable on proxy and mailstore servers, and a valid SSL certificate for chat1.mydomain.com must have been deployed on the Chat server. In addition, the FQDN of a realm URL (domain1examplecom.chat1.mydomain.com in this case) must be resolvable by proxy and mailstore servers.

1 It may take some time to reflect a change on DNS.

As described in Administrator Guide \rightarrow Network & Firewall Configuration, a realm URL must be accessible from Zimbra proxy and mailstore servers **only**. It must not be accessed by end users.

You can create a realm for an existing domain in the following steps:

1. Confirm zimbraChatBaseHost and zimbraChatJwtSecret have been configured on a domain

- 1 (Run as zimbra on a Zimbra mailstore server)
- 2 zmprov gd DOMAIN zimbraChatBaseHost zimbraChatJwtSecret
- 2. Confirm a FQDN of a creating realm URL can be resolved by proxy and mailstore servers
- 3. Create a realm for an existing domain

It is better to set a domain name removing dots (.) in @id for consistency.

- 1 (Run as zimbra on a Zimbra mailstore server)
- 2 \$ zmsoap -vv -z -type admin CreateChatRealmRequest @id="domainlexample.com" / domain="domainl.example.com"
 @by="name"

• When a domain is created after Chat server is integrated, a realm can be created automatically on Chat server. zimbraFeatureZulipChatEnabled TRUE needs to be specified at domain creation.

- 1 (Run as zimbra on a Zimbra mailstore server)
- 2 ## Realm is not created automatically
- 3 \$ zmprov cd DOMAIN
- 4
- 5 ## Realm is created automatically
- 6 \$ zmprov cd DOMAIN zimbraFeatureZulipChatEnabled TRUE

A realm id (zimbraZulipChatDomainId) will be a string which removes dots from a domain name. e.g. another.domain.example.net => anotherdomainexamplenet

Make sure that a FQDN of a realm URL for new domain can be resolved by proxy and mailstore servers before a domain is created.

If multiple Chat servers are deployed (i.e. if zimbraChatBaseHost and zimbraChatJwtSecret have not been set in globalConfig), zimbraChatBaseHost and zimbraChatJwtSecret need to be specified as well.

- 1 ## Realm is created automatically
- 2 \$ zmprov cd DOMAIN zimbraFeatureZulipChatEnabled TRUE zimbraChatBaseHost CHAT_HOSTNAME zimbraChatJwtSecret SECRET
- 4. Confirm that zimbraZulipChatDomainId has been set on the domain
 - 1 (Run as zimbra on a mailstore server)
 - 2 \$ zmprov gd DOMAIN zimbraZulipChatDomainId
 - 3 zimbraZulipChatDomainId: domainlexamplecom

5. Confirm that a realm has been created on Chat server

```
1 (Run as zulip on Chat servers s
```

6. Run proxyconfgen command and reload proxy so that Zimbra proxy can forward a request to Zimbra Chat server with a right url.

```
1 (Run as zimbra on all Zimbra proxy servers)
```

- 2 \$ /opt/zimbra/libexec/zmproxyconfgen
- 3 \$ zmproxyctl reload

1 If you see the following error message,

```
1 $ zmproxyctl reload
```

2 Reloading proxy...nginx: [emerg] could not build map_hash, you should increase map_hash_bucket_size: 64

3 done.

configure the value of proxy_web_map_hash_bucket_size in localconfig (default: 64). Zimbra proxy needs to be restarted.

```
    (Run as zimbra on all proxy servers)
    $ zmlocalconfig -e proxy_web_map_hash_bucket_size=128
    $ /opt/zimbra/libexec/zmproxyconfgen
    $ zmproxyctl restart
```

1 If you see the following error message,

Reloading proxy...nginx: [emerg] host not found in upstream "domainlexamplecom.chatl.mydomain.com:443" in /opt/zimbra/conf/nginx/includes/nginx.conf.chat.upstream:66

2 done.

the proxy server cannot resolve the FQDN of a realm URL https://domainlexamplecom.chatl.mydomain.com. You need to check DNS record, or refresh DNS cache on the server.

It may take some time to reflect a change on DNS. If it needs be fixed immediately, you can add an entry to /etc/hosts on the server as a workaround.

7. Provision accounts on the realm

- For more details refer: Administrator Guide
- Login to admin console
- Go to Configure > Domain > the domain
- Click "Provision all accounts" button
- · Click "Get accounts" button and confirm accounts have been deployed on Chat server
- When an account is created after Chat server is integrated, a chat account is automatically created on Chat server. Note: zimbraFeatureZulipChatEnabled must be TRUE on a domain.
 - 1 (Run as zimbra on a Zimbra mailstore server)
 - 2 ## account is not created automatically on Chat server
 - 3 \$ zmprov ca ACCOUNT PASSWORD zimbraFeatureZulipChatEnabled FALSE
 - 4
 - 5 ## account is created automatically on Chat server
 - 6 \$ zmprov ca ACCOUNT PASSWORD zimbraFeatureZulipChatEnabled TRUE

```
8 ## account is created autmatically on Chat server when zimbraFeatureZulipChatEnabled is TRUE on a COS
```

9 \$ zmprov ca ACCOUNT PASSWORD

Enable Basic Chat @

1. Enable zimbraFeatureZulipChatEnabled and zimbraFeatureBasicOneToOneChatEnabled at domain, COS or account level

- 1 (Run as zimbra on a Zimbra mailstore server)
- 2 (Example)
- 3 \$ zmprov mc default zimbraFeatureZulipChatEnabled TRUE zimbraFeatureBasicOneToOneChatEnabled TRUE

2. Enable zimbra-zimlet-chat zimlet in domain, COS or account level

- 3. Login to an account on Modern Web Client. Basic Chat is shown at right side of the page (in sidebar).
 - a. For more details refer separate document: "User's Guide for Zimbra Chat".

Enable Advanced Chat @

1. Enable zimbraFeatureZulipChatEnabled and zimbraFeatureAdvancedChatEnabled at domain, COS or account level

- 1 (Run as zimbra on a Zimbra mailstore server)
- 2 (Example)
- 3 \$ zmprov mc default zimbraFeatureZulipChatEnabled TRUE zimbraFeatureAdvancedChatEnabled TRUE

2. Enable zimbra-zimlet-chat zimlet in domain, COS or account level

3. Login to an account on Modern Web Client. Chat icon is shown in Apps list at the top of the page.

a. For more details refer separate document: "User's Guide for Zimbra Chat".

(Optional) Multiple domains and multiple chat servers @

You can deploy multiple domains on a single Chat server or distribute multiple domains across different Chat servers. This can be configured using zimbraChatBaseHost

Solution 2018 In the server of the server of

- A Chat server can connect to a single LDAP server (AUTH_LDAP_SERVER_URI), which can support multiple domains. However, if any domain requires a different LDAP server for authentication, a separate Chat server must be set up for it.
- 1 (Run as zimbra on a Zimbra mailstore server)
- 2 ## set globalConfig zimbraChatBaseHost to empty to avoid misconfiguration
- 3 \$ zmprov mcf zimbraChatBaseHost ""
- 4 ## set zimbraChatBaseHost per domain.
- 5 ## In this case, domain1 and domain2 are hosted on chat1, and others on chat2.
- 6 \$ zmprov md domain1.mydomain.com zimbraChatBaseHost chat1.mydomain.com
- 7 \$ zmprov md domain2.mydomain.com zimbraChatBaseHost chat1.mydomain.com
- 8 \$ zmprov md domain3.mydomain.com zimbraChatBaseHost chat2.mydomain.com
- 9 \$ zmprov md domain4.mydomain.com zimbraChatBaseHost chat2.mydomain.com
- 10 \$ zmprov fc -a all

As optional, zimbraChatJwtSecret can be configured per Chat server. (i.e. either the same or different values can be set.)

1 (Run as zimbra on a Zimbra mailstore server)

- 2 ## set globalConfig zimbraChatJwtSecret to empty to avoid misconfiguration
- 3 \$ zmprov mcf zimbraChatJwtSecret ""
- 4 ## set a value for chat1 server
- 5 \$ zmprov md domain1.mydomain.com zimbraChatJwtSecret tx4BhsK9aGmPzyqAQ66jawN

- 6 \$ zmprov md domain2.mydomain.com zimbraChatJwtSecret tx4BhsK9aGmPzyqAQ66jawN
- 7 ## set a value for chat2 server
- 8 \$ zmprov md domain3.mydomain.com zimbraChatJwtSecret bH94LxpaaCl2jkyTgnmMcqs
- 9 \$ zmprov md domain4.mydomain.com zimbraChatJwtSecret bH94LxpaaC12jkyTgnmMcqs
- 10 \$ zmprov fc -a all
- For each Chat Server deployment repeat the steps from Installation Guide: From Install Chat server to Enable Basic Chat and/or Enable Advanced Chat.

(Optional) Install and enable PGroonga for full-text search in non-English languages on Advanced Chat \mathscr{P}

PGroonga is a PostgreSQL extension to use Groonga as index. PGroonga makes PostgreSQL fast full text search platform for all languages.

All steps should be run as root on Chat server. It does not need to be executed on PostgreSQL server.

- 1. Alter the deployment setting
 - 1 crudini --set /etc/zulip/zulip.conf machine pgroonga enabled
- 2. Update the deployment to respect that new setting
 - 1 /home/zulip/deployments/current/scripts/zulip-puppet-apply
- 3. Add the following setting to /etc/zulip/settings.py
 - 1 USING PGROONGA = True
- 4. Apply the PGroonga migrations.

Note that the migration may take a long time, and users will be unable to send new messages until the migration finishes.

1 su zulip -c '/home/zulip/deployments/current/manage.py migrate pgroonga'

5. Restart Zulip

1 su zulip -c '/home/zulip/deployments/current/scripts/restart-server'

If you see the error below at step 2, run apt update and then do the step 2 again.

- 1 # /home/zulip/deployments/current/scripts/zulip-puppet-apply
- 2 ...
- 3 Get:1 http://iad-ad-1.clouds.archive.ubuntu.com/ubuntu jammy/universe amd64 libmsgpackc2 amd64 3.3.0-4 [15.1 kB]
- 4 Err:2 http://ppa.launchpad.net/groonga/ppa/ubuntu jammy/main amd64 libgroonga0 amd64 15.0.2-1.ubuntu22.04.1
- 5 404 Not Found [IP: 185.125.190.80 80]
- 6 Get:3 http://iad-ad-1.clouds.archive.ubuntu.com/ubuntu jammy/universe amd64 libsimdjson9 amd64 1.0.2-2 [68.6
 kB]
- 7 Get:4 https://packages.groonga.org/ubuntu jammy/universe amd64 postgresql-16-pgdg-pgroonga amd64 4.0.1-1 [789 kB]
- 8 Fetched 873 kB in 3s (265 kB/s)
- 9 E: Failed to fetch http://ppa.launchpad.net/groonga/ppa/ubuntu/pool/main/g/groonga/libgroonga0_15.0.2-1.ubuntu22.04.1_amd64.deb 404 Not Found [IP: 185.125.190.80 80]
- 10 E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
- 11 Error: /Stage[main]/Zulip::Postgresql_base/Package[postgresql-16-pgdg-pgroonga]/ensure: change from 'purged'
 to 'latest' failed: Could not update: Execution of '/usr/bin/apt-get -q -y -o DPkg::Options::=--force-confold
 install postgresql-16-pgdg-pgroonga' returned 100: Reading package lists...

Administrator Guide @

Admin Console @

An administrator can manage Chat-related configuration and accounts on a Chat server. For more details refer: FAQs section for a domain admin or delegated admin.

Account, COS and domain settings: 🖉

- Enable chat: whether chat feature is enabled or not. If it is FALSE, basic one to one chat and advanced chat is regarded as disabled.
- Enable basic one to one chat: whether basic chat is enabled or not.
- Enable advanced chat: whether advanced chat is enabled.

Zimbra Administra A SYNACOR PRODUCT	ation	â •		9	U ad	nin@dom	• H	elp 🚽
Accounts	Home - Manage - Accounts - user1@domain1.example.com - Chat				🕜 He	p Save Ck	e 💮	• ••
Accounts Accounts Accounts General Information Contact Information Contact Information Preferences Aliases Ferwarding FreeBusy Interop Themes Zimites Mobile Advanced ACL Chat Bestated General texample.com Secont Objects General Contact Accounts	Home - Manage - Accounts - user1@domain1 example.com - Chut Email: user1@domain1 example.com Cuota: 0 MB of unlimited	ID: Created: Status: Last Lopin:	ee400655-4451-470b bebe-0989309658b0 April 3, 2025 7:29 33 PM Active Never logged in		Q He	p Save Ck	••	▼ No 200 P

Chat accounts management in domain settings: 🖉

· Get accounts: accounts created on a Chat server are shown in Activated accounts and Deactivated accounts field.

Zimbra Administra A SYNACOR PRODUCT	ation	@ •		Q U admin@dom ↓ Help ↓
Domains	Home - Configure - Domains - domain1.example.com - Chat			🝞 Help Save Close 💮 ᠇ 여
domain1.example.com General Information GAL Authentication	domain1.example.com	ID: Created: A Status: A	8c827596-ef2c-41ea-bc87-4bda35672683 April 3, 2025 7:29:04 PM Active	・ の に は の の の の の の の の の の の の の
Virtual Hosts Features Advanced Free/Busy Interop Zimlets	V Chat Enable chat Enable basic one to one chat Enable advanced chat ✓ ✓			0
Themes Certificate Malibox Quota Account Limits ACL SMIIME Mahina	Provisioning account(s) or change of activated/deactivated status will be applied without click Get accounts Provision all accounts Provision all accounts Email: Activated accounts withmediodemail accounts	king Save button.	nt that chat is disabled. It will take some time.	
Addele Chat Related Accounts Recent Objects @ domain1.example.com	aomngoonan'i example.com user(@domain'i example.com	Deactivate		

• Deactivate/Reactivate: click an account in Activated accounts and click Deactivate, and then the user is deactivated. It can be reactivated by clicking an account in Deactivated accounts and click Reactivate.

() An account is deactivated on Chat server automatically when it is removed from Zimbra.

For more details refer: FAQs section on how to remove an account from Chat server.

Zimbra Administra	tion	@ •	् U admin@dom Help -
Domains 💌	Home - Configure - Domains - domain1.example.com - Chat		🕜 Help Save Close 🐼 💌 📢
domain1.example.com General Information GAL Authentication Vidual Matte	domain1.example.com	ID: 8c827596-ef2c-41ea-bc6 Created: April 3, 2025 7:29:04 PM Status: Active	(7-4bda35672883
Features Advanced Free/Busy Interop	Chait Enable chat Enable basic one to one chat Enable advanced chat C		
Zimlets Themes Certificate Mailbox Quota Account Limits	Provisioning account(s) or change of activated/deactivated status will be applied without clicit Get accounts Provision all accounts Pro	ing Save button. em account or an account that chat is disabled. It	will take some time.
ACL S/MIME Mobile Chat	⊂Activated accounts admin⊜domain1 example.com	Deactivated accou	ntsnple.com
Related Accounts Recent Objects G domain 1.example.com		Deactivate	

• Provision all accounts: provision all accounts on the domain to a Chat server. Activated/Deactivated accounts lists are not updated automatically. Click Get accounts to show the latest list.

Note: The number of successes and failures of account provisioning are shown in a dialog. When you see failures, the failure event log user creation failed: EMAIL_ADDRESS is written in /var/log/zulip/server.log on the Chat server. You can find the reason for the failure in the /var/log/zulip/server.log and/or /var/log/zulip/error.log.

Zimbra Administra A SYNACOR PRODUCT	ation		@ ▼		💊 🖱 admin@dom 🖌 Help
Domains	Home - Configure - Domains - domain1.example.co	vm - Chat			🕜 Help Save Close 💮 🔫
Contraise Contrained C	Home - Configure - Domains - domain 1 example.com domain 1.example.com ▼ Chat Enable chat Enable chat Enable chat Enable chat Out advanced chat Provisioning account(s) or change of activated Out accounts Provision al accounts Provision al accounts Provision al accounts Activated accounts	In - Chat	ID: 8c Created Ap Status: Ac status: Ac	827596-#02-41 ea-be87-4be435672683 rrl 3, 2025 7:29:04 PM Sive Is disabled. If will take some time. Vated accounts	Hep Save Close
Mobile Chat Related Accounts 2 Recent Objects @ domain 1 example com	admin@domain1 example.com		Deactivate Reactivate	ж	

• Provision an account: provision a single account on the domain to a Chat server. Enter an email address in text field and click Provision an account. Activated/Deactivated accounts lists are not updated automatically. Click Get accounts to show the latest list.

Domains 💌	Home - Configure - Domains - domain1.example.com - Chat			🕜 Help Save Close 🎧 👻 🔦
domain1.example.com General Information GAL Authentication Virtual Hosts	domain1.example.com	ID: Created: Status:	8c827596-e12c-41ea-bc87-4bda35672683 April 3, 2025 7:29:04 PM Active	
Features Advanced Free/Busy Interop Zimiets Themes	Enable basic one to one chat Enable basic one to one chat Enable basic one to one chat Enable advanced chat Provisionno account(s) or channe of activated/dead/valed status will be anoled without clock Provisionno account(s) or channe of activated/dead/valed status will be anoled without clock	no Save button		
Certificate Maibox Ouda Account Limits ACL SIMIME Mobile Chat Related	Get accounts Provision all accounts Zimbra Administration Provision an account Email: user3@doma Image: The second se	"Get accounts" butto	n to vated accounts	
Accounts Receit Objects domain1 example.com		Deactivate		

If a realm has not been created on Chat server, chat settings is unavailable on the domain.

Containt Here - Configure - Domain2 example com - Chat ID: defa5555-eb4-4009-9003-a255053acb Central Information GAL Aurentication Status: Active Aumentication Status: Active Status: Active Virtual Holds Feedbreet Enable data Enable data Enable data FreeBurgi Internation General Internation Status: Active ID: defa5555-eb4-4009-9003-a2550553acb Virtual Holds Status: Active Status: Active Virtual Holds Feestings are not available because chat has not been configured for the domain. ID: defa5555-eb4-4009-9003-a2550553acb Zimids Themes! Contradict Enable data ID: Active ID: ID: Active Zimids Themes! Centradict Enable data ID:	Zimbra Administra A SYNACOR PRODUCT	ation	@ •		Q ບ admin@dom ↓ H	
Contrait cumple cont Dimension OAL Created: April 3, 223 5, 30.50 PM Authenization Status: Active Virtual Hosts The settings are not available because chat has not been configured for the domain. Status: Active PreeBury Interpo Zimets Image: Contrain the domain except an inactive account, system account for that is disabled. It will take some time. PreeBury Interpo Certificate Mailtor: Counts Oct accounts Prevision all accounts in the domain except an inactive account, system account for that is disabled. It will take some time. Prevision all accounts in the domain except an inactive account, system account that chat is disabled. It will take some time. Prevision all accounts in the domain except an inactive account, system account that chat is disabled. It will take some time. Prevision all accounts in the domain except an inactive account, system account that chat is disabled. It will take some time. Prevision all accounts in the domain except an inactive account, system account for an account that chat is disabled. It will take some time. Prevision all accounts in the domain except an inactive account account in the domain except an inactive account account is the domain except an inactive account account in the domain except account in the domain except account in the	Domains 💌	Home - Configure - Domains - domain2.example.com - Chat			🕜 Help Save Close 🎡	•
Mailton Topics • Chall Chall	domain2 example.com General information GAL Authentication Visual Jointe	domain2.example.com	ID: Created: Status:	defa5a55-eb44-4009-9063-ca2d5b953acb April 3, 2025 8:30:50 PM Active	1	
Mode Chat Recent Objects @ domain2.example.com	Vittal rolos Features Advanced Free®usy Interop Zimiets Themes Certificate Matibox Guota Account Limits ACL SAMME	Vertex exception of accounts Vertex end accounts	em account or an accou	unt that chuit is disabled. It will take some time.	, , , , , , , , , , , , , , , , , , ,	
	Mobie Chat Recent Objects @ domain2.example.com		Desclivate			

Zimlet Configuration Guide for one to one chat @

Basic behavior \mathscr{O}

On one to one chat, presence data of all users in the same domain are fetched from Zimbra Chat server at initial loading process. After that, presence status (active or idle) of the user is sent to Chat server periodically (hereinafter called "presence update request".) A response from the server includes presence data of other users whose last timestamp is updated. In addition, when other user(s) becomes active status, it is notified through a response of a events request (hereinafter called "presence event notification".)

Possible performance issue on a large domain \mathscr{O}

If there are many users on a domain, it may increase some performance issues.

- · response size becomes large at initial loading process
- the size of presence data included in a response of a *presence update request* becomes large, especially when many users are online. (i.e. many concurrent users)
- the number of presence event notification becomes large

Configuration @

A zimlet zimbra-zimlet-chat has some configuration. config_template.xml is included in the zimlet. You can see additional information about the settings.

- 1. pingIntervalActiveInSeconds: default 180 (seconds)
- When the user is active, the status is sent to Chat server every 3 minutes. i.e. it is used on a *presence update request* at active status.
- 2. pingIntervalIdleInSeconds : default 900 (seconds)
- When the user is idle, the status is sent to Chat server every 15 minutes. i.e. it is used on a *presence update request* at idle status.
- 3. maxAllowedSecondsForNoActivity: default 240 (seconds)
- When the user has not used a keyboard or a mouse (touch action on mobile device) for 4 minutes, the user is regarded as idle status. After that, pingIntervalIdleInSeconds is used to send the user's presence status.
- When a user uses a keyboard or a mouse, the user status becomes from idle to active. After that, pingIntervalActiveInSeconds is used.
- 4. presenceUpdateMinFreqInSeconds : default 60 (seconds)
- When many presence update requests are sent from a client (or a browser) in a short period of time, Chat server ignores them not to update database frequently.
- By default, minimum update period is 55 seconds. For example, when Chat server receives 5 requests in 55 seconds from the same user, it accepts the first request and update the database, but ignores other 4 requests.
- When the user becomes idle, the status is sent to Chat server. However, if it happens just after active status is sent to Chat server, the idle status notification is ignored on Chat server. The zimlet sends additional idle presence status after the specified value in consideration of the limitation.
 - 1 The value must not be changed until the minimum update period 55 seconds is modified on Chat server.
- 5. idleEventCallDelay: default 60 (seconds)
- An event like receiving a message and status change to online on other users are checked through *presence event notification*. When the user is active, next events request is sent immediately after a previous *presence event notification* fulfilled.
- When the user is idle, 1 minute wait time is added before next events request is sent.
- It means,
 - 1. Receive presence event notification
 - 2. Wait 1 minute
 - 3. Send next events request.
- If the user receives a message from other user or other user becomes online during the wait time, the event is notified in a response of next events request and reflected in UI.
- 6. enablePresenceEvents : default: true
 - a. When it is true
 - i. Presence data of all users in the same domain are fetched from Chat server at initial loading process.
 - ii. When other user(s) becomes active status, it is notified through a response of a events request.
 - iii. A response of presence update request includes presence data of other users' whose timestamp is updated.
 - b. When it is false
 - i. Presence data of all users are not loaded. Instead, presence data of only users shown in a sidebar (pinned and not pinned users) are fetched.
 - ii. Presence status is NOT notified when other user(s) becomes active status.
 - iii. A response of presence update request does NOT include presence data of other users' whose timestamp is updated.

iv. Instead of using *presence event notification* and a response of *presence update request*, another http request to get presence data of only necessary users is sent together at sending *presence update request*. (hereinafter called "presence fetch request".)

c. Advantage & Disadvantage

i. When it is true,

ii. Advantage

1. When another user becomes active, it can be detected in shorter time

- iii. Disadvantage
 - All other users' presence data are fetched at initial loading process. All other users' "active" status change are notified through presence event notification, even when the user communicates with some other users only. It means that response size of the initial loading may be large and many presence event notification may occur. It will increase memory use on a client machine, increase server load, and increase network traffic.
- iv. When it is false,
- v. Advantage
 - 1. Size of initial loading is smaller.
 - 2. Presence data of only necessary users are fetched from Chat server. It will achieve less memory use on a client, and less server load and network traffic especially on *presence event notification* in many case.
- vi. Disadvantage
 - 1. When a user becomes active, it is not reflected on other users immediately. It will be reflected when next presence request is triggered.
 - 2. Additional *presence fetch request* is sent. There might be some overhead on both client and server side. However, it should not be so much in comparison with fetching presence update through a response of *presence update request* in a large domain.

Constraints @

- The values for pingIntervalActiveInSeconds, pingIntervalIdleInSeconds, maxAllowedSecondsForNoActivity and presenceUpdateMinFreqInSeconds must be provided in seconds.
- The minimum values required for pingIntervalActiveInSeconds, pingIntervalIdleInSeconds and presenceUpdateMinFreqSeconds must be 60 seconds.
- presenceUpdateMinFreqInSeconds value must be less than pingIntervalActiveInSeconds and pingIntervalIdleInSeconds .
- presenceUpdateMinFreqInSeconds must not be changed unless a setting of minimum frequent seconds for presence update is modified on Zimbra Chat server.
- The maximum value required for idleEventCallDelay must be 60 seconds.

Recommended settings @

On a small domain

• Default values should be good

<u>On a large domain</u>

- enablePresenceEvents is false
- If you see performance issue on Chat server, consider a) increasing pingIntervalActiveInSeconds, b) increasing pingIntervalIdleInSeconds and/or c) decrease maxAllowedSecondsForNoActivity to reduce frequency of presence update request.:

They are sort of tuning parameters. Efficiency of changes depend on the number of concurrent users, Chat server specification, network bandwidth and so on.

Configuration steps @

Modify config_template.xml and apply the change after the zimlet is deployed. All steps should be run as zimbra on a Zimbra mailstore server.

1. deploy the zimlet

2. check the current configuration

```
1 $ zmzimletctl info zimbra-zimlet-chat
2 ...
3 Config: <zimletConfig name="zimbra-zimlet-chat" version="1.0.0">...</zimletConfig>
```

3. edit config_template.xml. For example,

```
1 $ cd /path/to/your-working-directory/
```

- 2 \$ cp /opt/zimbra/zimlets-deployed/zimbra-zimlet-chat/config_template.xml ./
- 3 \$ vi config_template.xml
- set upper version number
- modify a value of setting(s)
- 4. apply the change

```
1 $ zmzimletctl configure config_template.xml
```

```
5. confirm the change
```

```
1 $ zmzimletctl info zimbra-zimlet-chat
```

6. run flushCache. Specify -a option on a multi-server environment.

```
1 $ zmprov fc -a zimlet
```

Log files @

Main log file of Chat server application is /var/log/zulip/server.log on a Chat server. You can find other log files like django.log and tornado.log in /var/log/zulip/ directory, but major log events are gathered in server.log.

The log format of server.log is as follows:

- Timestamp
- Log level
- · Logger name, abbreviated as "zr" for these Zulip request logs
- IP address
- HTTP method
- · HTTP status code
- Time to process
- (Optional performance data details)
- Endpoint/URL from zproject/urls.py

Nginx log files access.log and error.log exist in /var/log/nginx/ directory on a Chat server. The format of access.log is defined in /etc/nginx/nginx.conf as follows:

```
1 log_format combined_with_host_and_time '$remote_addr - $remote_user [$time_local] '
2 '"$request" $status $body_bytes_sent '
3 '"$http_referer" "$http_user_agent" $host $request_time';
```

PostgreSQL log files exist in /var/log/postgresql directory. It does not contain detailed logs but just statistics by default. If you see an issue on database access, you may be able to find ERROR, FATAL or PANIC log in postgresql-16-main.log.

Zimbra Chat Administrator @

Administration Organization basics 🖉

As a Zimbra Chat Administrator, understanding how to manage user roles and permissions is key to maintaining organized workspace. This section explains the different user roles available, how to manage them, and how to configure organization-wide permissions.

Note: These roles are chat specific and not same as the Zimbra email administrator role.

Overview of User Roles @

Zimbra Chat supports multiple roles to help you assign the right permissions based on your organization's needs:

Role	Description
Organization Owner	Full control over settings, users, and other administrator. Only owners can deactivate the organization.
Organization Administrator	Can manage users, channels, settings. Cannot promote others to owner or modify owner roles.
Moderator	Can perform limited administrative functions. Permissions can be configured by Owner and Administrator.
Member	Default role for most users. Can access all public channels.
Guest	Can only access channels they are explicitly added to. Cannot see other users or channels.

Managing User Roles 🖉

You can assign and change roles either through the user profile or via organization settings.

Via User Profile 🖉

- 1. Hover over the user's name in the right sidebar.
- 2. Click the three-dot menu \rightarrow Manage this user.
- 3. Under User role, select a new role.
- 4. Click Save changes.

Via Organization Settings 🖉

- 1. Go to Settings \rightarrow Organization Settings \rightarrow Users tab.
- 2. Use the dropdown next to the user's name to assign a new role.
- 3. Click Save changes.

Organization Settings Management 🖉

Only Owner and Administrator can configure and view organization settings.

Common Settings: @

- Organization profile and type.
- Organization logo can also be configured and customized.
- Default user permissions.

• Automated messages and email language.

To access:

• Go to Settings → Organization settings.

Managing User Access 🖉

Deactivate a User 🖉

Deactivation removes access across all devices, disables credentials, and bots.

Steps:

- 1. Open the user profile or go to Organization > Users tab.
- 2. Click Manage this user.
- 3. Click Deactivate user > Confirm.
- 4. Note: Owner role cannot be deactivated by Administrator.

Reactivate a User @

- 1. Go to Settings \rightarrow Organization \rightarrow Users \rightarrow Deactivated tab.
- 2. Click Reactivate next to the user.

The user retains all prior settings and roles upon reactivation.

Default Settings for New Users 🖉

Administrator can configure default preferences for new users, such as:

- Theme, font size, time format.
- · Privacy options.
- Notifications.
- Home view (Inbox vs. Recent Conversations).

User Identity Controls \mathscr{O}

Configure these options under Organization settings \rightarrow Organization permissions \rightarrow User Identity:

- Prevent users from changing:
 - Name, Email, Avatar.

Deactivating an Organization 🖉

This action is irreversible from the organization side.

Only Owners can deactivate:

- 1. Go to Organization settings \rightarrow Organization profile.
- 2. Click Deactivate organization \rightarrow Confirm.

Note: To reverse a deactivation, contact your server administrator immediately.

Deactivation cannot be undone through the Zimbra Chat interface. Only a Zimbra system administrator has the necessary access and tools to recover or restore the organization from the server side.

Channel Management @

As an Administrator, you have full control over how channels are created, managed, and used.

Control Who Can Create Channels 🖉

Go to: Settings \rightarrow Organization settings \rightarrow Organization permissions \rightarrow Channel permissions

You can choose:

- · Administrator only
- Administrator and Moderator.
- · Administrator, Moderator, and Members.
- All full members.

Limit creation to Administrator and/or moderators if you want to keep things clean.

Enable/Disable Channel Types 🖉

Channel types: 🖉

- Public anyone can join, all messages visible.
- Private invite-only.
- Web-public read-only access via public link.

To grant web-public type to Channel:

Only Administrator and Moderator can create web-public channels.

- 1. Go to Organization settings \rightarrow Organization permissions \rightarrow Channel permissions.
- 2. Enable: Allow web-public channels.

Set Who Can Post in Channels 🖉

You can change this anytime-even for existing channels.

For each channel:

- 1. Open Channel settings \rightarrow click on the Channel name \rightarrow Advanced configuration section.
- 2. Under Posting policy, choose: Everyone, Administrator & moderators, Only moderators, Administrator only.

Manage Subscribers @

As an Administrator, you can:

- Add/remove users from any channel Channel settings → click on the Channel name → Subscribers tab.
- Forcing users to subscribe to mandatory channels (via "default channels")
 - · Set Default Channels for New Users.
 - $\circ~$ Go to: Settings $\rightarrow~$ Organization settings $\rightarrow~$ Default channels.
 - These channels are auto-subscribed for new users. Ideal for: #announcements, #company-news.

Rename Channel and Edit Channel Settings 🖉

Administrator can:

- · Change the channel name and description.
- Make the channel public.
- Set posting policies.
- · Delete channels.

Go to any channel \rightarrow Channel settings \rightarrow Make your changes.

Delete Channels 🖉

Administrator can:

• Delete channels - Deleting channel will immediately unsubscribe everyone. This action cannot be undone.

Require Topics in Channel Messages

By default, users can send messages without choosing a topic — these show up as "(no topic)".

As an Administrator, you can prohibit users to use an empty topic when sending a message to a channel.

To enable this:

- 1. Go to Settings → Organization settings
- 2. Scroll to Other settings
- 3. Toggle Require topics in channel messages
- 4. Click Save changes

Control Who Can Edit Topics and Move Messages \mathscr{O}

As an Administrator, you can decide:

- · Who can edit message topics
- Who can move topics to other channels
- · Whether there's a time limit for editing or moving messages

To manage these permissions: 🖉

1. Go to Settings \rightarrow Organization setting \rightarrow Organization permissions

2. Under Moving messages, configure each of these:

- Who can move messages to another topic
- Time limit for editing topics
- · Who can move messages to another channel
- Time limit for moving messages between channels
- 3. Click Save changes after each update

Administrator and Moderator are able to edit and move messages no matter how long ago they were written.

Control Who Can Send Direct Messages (DMs) 🖉

As Owner or Administrator, you can control how DMs work in your organization.

There are two settings you can configure:

To set up DM permissions: @

- 1. Go to Settings → Organization settings → Organization permissions
- 2. Scroll to Direct message permissions
- 3. Who can authorize a DM (At least one person in the conversation must be authorized to start it.)
 - a. Set Who can authorize a direct message conversation
 - b. Click Save changes
- 4. Who can start a DM (Defines who's allowed to initiate new DM conversations.)
 - a. Set Who can start a direct message conversation
 - b. Click Save changes
- 5. To disable DMs completely:
 - a. Set Who can authorize a direct message conversation to Direct messages disabled
 - b. Click Save changes

Control Who Can Use Wildcard Mentions (@all, @channel, @topic) 🖉

As Owner or Administrator, you can manage who's allowed to use wildcard mentions that notify large groups of people.

Wildcard mentions include:

- @all, @channel, or @everyone → Notifies everyone in a channel
- $@topic \rightarrow Notifies everyone active in a topic$

By default, these can notify a lot of users. You can limit this to avoid spamming large groups.

This setting only applies when the channel has more than 15 members, or the topic has more than 15 participants

To restrict wildcard mentions: 🖉

- 1. Go to Settings → Organization settings → Organization permissions
- 2. Scroll to Channel permissions
- 3. Set Who can notify a large number of users with a wildcard mention
- 4. Click Save changes

Manage Message Editing, Deleting & Edit History 🖉

As an administrator, you control:

- · Who can edit or delete their own messages
- · Time limits for editing or deleting
- · Whether edit history is visible to users

Message Editing \mathscr{O}

- Users can only edit their own messages.
- · Administrator can always delete any message.

To configure editing:

- 1. Go to Settings \rightarrow Organization settings \rightarrow Organization permissions
- 2. Under Message editing:
 - Toggle Allow message editing.
 - Toggle Enable message edit history.
 - Set Time limit for editing messages.
- 3. Click Save changes.

Message Deletion 🖉

- Deleting a message permanently removes the message, users can delete their own messages.
- · Administrator can delete any message.
- · Users can also delete messages sent by bots they own.

To configure deletion:

- 1. Go to Settings \rightarrow Organization settings \rightarrow Organization permissions
- 2. Under Message deletion:
 - Set Who can delete their own messages.
 - Set Time limit for deleting messages does not apply to administrator.
- 3. Click Save changes.

Message retention \mathscr{O}

As Administrator, you can also configure a global default message retention policy:

- Go to Organization settings → Message retention.
- Select message retention period.
 - By default all messages are kept indefinitely.
 - Use custom retention period and select Retention period (in days).

Media Preview Behaviour

Zimbra chat shows small previews of images, videos, and links to keep chats readable.

As an administrator you can turn off previews entirely for:

Uploaded and linked images/videos and linked websites

- 1. Go to Settings \rightarrow Organization settings
- 2. Under Other settings,
- 3. Toggle Show previews of uploaded and linked images and videos
- 4. Toggle Show previews of linked websites
- 5. Click Save changes.

Video @

Zimbra Chat is a chat only solution, and does not include any video conferencing solution. However, an integration with open source chat solution has been provided. By default, Zimbra Advanced Chat provides a built in integration with Jitsi Meet, 100% open source video conferencing solution. Users will be able to start a Jitsi Meet call and invite others using the add video call or add voice call button in the compose box.

Configure a self-hosted instance of Jitsi Meet 🖉

Administrators can use a self-hosted instance of Jitsi Meet. Zimbra Advanced Chat has cloud version of Jitsi Meet as its default video call provider. This is the community version of the Jitsi open source platform.

To configure self-hosted Jitsi Meet, as an Administrator,

- 1. Click on the gear icon in the upper right corner of the web or desktop app.
- 2. Select Organization settings.
- 3. On the left, click Organization settings.
- 4. Under Compose settings, confirm Jitsi Meet is selected in the Call provider dropdown.
- 5. Select Custom URL from the Jitsi server URL dropdown, and enter the URL of your self-hosted Jitsi Meet server.
- 6. Click Save changes.

Backup and Restore For Zimbra Chat @

The Zimbra Chat server has a built-in backup tool which can be used to make a backup of chat data on the Chat server and restore it in case of disaster recovery, testing with production data, and hardware migrations.

NOTE: The backup and restore functionality here is not related to Zimbra Backup and Restore feature used for mailbox data backup.

It is fast, robust, and minimizes disruption for your users. However, it has a few limitations:

- Backups must be restored on a server running the same Zulip version.
- Backups must be restored on a server running the same PostgreSQL version.

Backup @

Zimbra Chat Administrator can create a backup of all data on the server using backup tool as:

- 1 # As the zulip user
- 2 /home/zulip/deployments/current/manage.py backup

Following options can be used with above command:

--output=/tmp/backup.tar.gz: Filename to write the backup tarball to (default: write to a file in /tmp). On success, the console output will show the path to the output tarball.

--skip-uploads : If LOCAL_UPLOADS_DIR is set, user-uploaded files in that directory will be ignored. LOCAL_UPLOADS_DIR is the directory where user uploaded files are stored in Chat server. It is specified in /etc/zulip/settings.py

This will generate a .tar.gz archive containing all the data stored on your Chat server that would be needed to restore your Chat server's state on another machine perfectly.

For example:

- 1 # su zulip -c '/home/zulip/deployments/current/manage.py backup --output=/home/zulip/zulip-backup.tar.gz'
- 2 + /usr/lib/postgresql/16/bin/pg_dump --format=directory --file=/tmp/zulip-backup-2025-04-04-07-29-56-
 - 533sg975/zulip-backup/database --username=zulip --dbname=zulip --no-password --host=10.0.0.231 --port=5432
- 3 + tar --directory=/tmp/zulip-backup-2025-04-04-07-29-56-533sg975 -cPzf /home/zulip/zulip-backup.tar.gz '-transform=s|^/etc/zulip(/.*)?\$|zulip-backup/settings\1|x' -- zulip-backup/zulip-version zulip-backup/os-version zulip-backup/postgres-version /etc/zulip zulip-backup/database
- 4 Backup tarball written to /home/zulip/zulip-backup.tar.gz

Restore backup @

- 1. Create a new ZImbra Chat server setup using the same base OS and the same versions of Zulip and postgreSQL as the backup was taken on. Use the Zimbra Zulip installer to install and configure the setup.
 - a. Any upgrade related to OS, Zulip version or postgreSQL version should be done after successful restore of backup.
 - b. Ensure network security measures recommended in the Installation guide are safely in place for the new instances.
- 2. Copy backed-up .tar.gz file from the old Zimbra Chat server to the new Chat server.

3. Follow further restore steps based on your Zimbra Chat server setup.

Restoration on multi-node Chat server setup: 🖉

In case of multi-node Chat server setup, where PostgreSQL server is also new (i.e. PostgreSQL database also needs to be restored on the new PostgreSQL server):

- Update following details in /etc/zulip/settings.py on Chat server node:
 - 1 EXTERNAL_HOST = "new-chat-server-hostname"
 - 2 REMOTE_POSTGRES_HOST = "<new-postgres-host-ip>"
- On PostgreSQL node, add the following entry at the bottom in /etc/postgresql/*/main/pg_hba.conf

1	host	postgres	zulip	<zulip-server-host-ip>/32</zulip-server-host-ip>	trust
---	------	----------	-------	--	-------

Restart postgresql as root user.

1 # Run on postgres node as root user

2 systemctl restart postgresql

Grant the CREATEDB privilege to the zulip user

- 1 # Run on postgres node
- 2 su postgres
- 3 psql
- 4 ALTER ROLE zulip CREATEDB;
- As root, restore the backup:
 - 1 #Run On Chat server node
 - 2 /home/zulip/deployments/current/scripts/setup/restore-backup --keep-settings /path/to/backup
- After successful restoration of Chat server and PostgreSQL server, remove the CREATEDB privilege for the Zulip user:

1 # Run on postgres node

2 su - postgres

```
3 psql
```

ALTER ROLE zulip NOCREATEDB;

1 Note: CREATEDB privilege for the Zulip user should be revoked after restore is completed successfully.

Restoration on combined Chat setup (Database and Zimbra Chat server on single node): 🖉

In case of combined setup, restore the backup as:

• As root, restore the backup:

```
1 (Run as root on chat server)
```

- 2 \$ /home/zulip/deployments/current/scripts/setup/restore-backup /path/to/backup.tar.gz
- After successful restoration, update the following details in /etc/zulip/settings.py

```
1 EXTERNAL_HOST = "new-zulip-server-hostname"
```

• Restart the Chat server

```
1 (Run as root on chat server)
```

2 \$ /home/zulip/deployments/current/scripts/restart-server

On Zimbra mailbox server, updated the zimbraChatBaseHost with the new Chat server hostname. Update it for domains or at global config level.

(Run as zimbra on a Zimbra mailstore server)
 \$ zmprov mcf zimbraChatBaseHost <new-chat-server-hostname>
 \$ zmprov fc -a all

You can confirm that the restored Chat server can search an account on the LDAP. Make sure that both full_name and email are returned.

```
1 (Run as zulip on chat server)
2 $ /home/zulip/deployments/current/manage.py query_ldap <account-email>
3 ...
4 full_name: user1
5 email: <account-email>
```

For more details, please refer to the following documentation:

Backups, export and import — Zulip 9.2 documentation

Important Points to note regarding Zimbra Chat Backup and Zimbra Collaboration Suite (ZCS) Backup and Restore: \mathscr{O}

- 1. There is no account level backup and restore on Zimbra Chat server.
- 2. There is no built-in automatic backup schedule for the Zimbra Chat server but can be configured using crontab.
- 3. Zimbra Chat server backup is not integrated with ZCS's backup and restore. Zimbra Chat backup and restore is managed separately.
- 4. Zimbra Chat Server logs are not backed up. Chat administrator should create backup of server log files manually if required.
- 5. Restoring a Zimbra Chat server from its backup does not create accounts on ZCS servers. If accounts are required to be restored on ZCS server, ZCS's restore should be executed first.

Troubleshooting Guide @

1. LDAP Connection Issues @

1.1. Chat server cannot access LDAP server or search a user \mathscr{O}

If you see Can't contact LDAP server error message at the following command execution,

- 1 \$ /home/zulip/deployments/current/manage.py query_ldap EMAIL_ADDRESS
- 2 ldap.SERVER_DOWN: {'result': -1, 'desc': "Can't contact LDAP server", 'errno': 11, 'ctrls': [], 'info': 'Resource temporarily unavailable'}

check the following items:

- · Idap hostname can be resolved on the Chat server
- · Idap server allows 389 port access from the Chat server
- AUTH_LDAP_SERVER_URI in /etc/zulip/settings.py specifies a correct ldap hostname (and port). For example,
 AUTH_LDAP_SERVER_URI = "ldap://ldap.your.domain" or AUTH_LDAP_SERVER_URI = "ldap://ldap.your.domain:389". Default port 389 can be omitted.

1.2. TLS Connection Issues 🖉

If you see Connect error at Initiating TLS like

```
1 $ /home/zulip/deployments/current/manage.py query_ldap EMAIL_ADDRESS
2 2025-03-28 07:29:10.948 DEBG [django_auth_ldap] Binding as uid=zimbra,cn=admins,cn=zimbra
3 2025-03-28 07:29:10.949 DEBG [django_auth_ldap] Initiating TLS
4 ...
5 ldap.CONNECT_ERROR: {'result': -11, 'desc': 'Connect error', 'ctrls': [], 'info': '(unknown error code)'}
```

you need to verify a valid SSL certificate has been deployed on Idap server.

1.3. Invalid Credentials 🖉

If you see ldap.INVALID_CREDENTIALS like

- 1 \$ /home/zulip/deployments/current/manage.py query_ldap EMAIL_ADDRESS
- 2 ldap.INVALID_CREDENTIALS: {'msgtype': 97, 'msgid': 2, 'result': 49, 'desc': 'Invalid credentials', 'ctrls': []}

check the following items:

- AUTH_LDAP_BIND_DN in /etc/zulip/settings.py specifies a correct value.
- auth_ldap_bind_password in /etc/zulip/zulip-secrets.conf specifies a correct password for the AUTH_LDAP_BIND_DN

1.4. Successful User Search 🖉

full_name and email should be returned when user search works correctly.

1 \$ /home/zulip/deployments/current/manage.py query_ldap userl@mydomain.com

```
2 ...
```

```
3 full_name: user1
```

4 email: userl@mydomain.com

You need to restart Chat server application to apply changes in /etc/zulip/settings.py and /etc/zulip/zulip-secrets.conf.

```
1 /home/zulip/deployments/current/scripts/restart-server
```

2. Realm Creation Issues @

2.1. A realm is not created on Chat server 🖉

If you created a domain with zimbraFeatureZulipChatEnabled TRUE or ran CreateChatRealmRequest but a realm is not created on a Chat server, check the following items:

- · Chat server hostname can be resolved on mailstore servers
- the Chat server allows 443 port access from mailstore servers
- zimbraChatBaseHost and zimbraChatJwtSecret have been configured on the domain. If each attribute has been configured in globalConfig and not been configured in domain, the value in globalConfig is applied automatically.
- zimbraChatBaseHost has a hostname of a Chat server
- zimbraChatJwtSecret has a secret key, which has been set in /etc/zulip/zulip-secrets.conf as zimbra_jwt_auth_key on the Chat server
- A valid SSL certificate has been deployed on the Chat server

3. Chat Availability Issues @

3.1. A realm has been created on Chat server, but Chat is unavailable on Modern Web App 🖉

If a realm has been created on a Chat server but chat feature is unavailable in Modern Web App, check the following items:

3.1.1. Zimbra license 🖉

- a valid license is installed on Zimbra
- the license is activated
- · the license is not expired
- the following feature(s) is licensed
 - BOCAL (BasicOneToOneChatAccountsLimit) feature enabled for Basic one to one chat
 - CAL (ChatAccountsLimit) feature enabled for Advanced Chat
- you can see license status by executing zmlicense -p

3.1.2. Other configuration issues \mathscr{O}

- zimbra-zimlet-chat zimlet has been deployed and enabled on an account
- · a hostname of a realm url is resolvable on zimbra proxy and mailstore servers
- a valid SSL certificate for a hostname of a realm url has been deployed on the Chat server
- zmproxyconfgen and zmproxyctl reload have been executed on all proxy servers
- zimbraFeatureZulipChatEnabled is enabled on a domain
- · Basic Chat
 - zimbraFeatureZulipChatEnabled and zimbraFeatureBasicOneToOneChatEnabled are enabled on an account
- Advanced Chat
 - zimbraFeatureZulipChatEnabled and zimbraFeatureAdvancedChatEnabled are enabled on an account
- If there are multiple mailstore servers, run zmprov fc -a all
- CSRF_TRUSTED_ORIGINS in /etc/zulip/settings.py on a Chat server specifies a URL of Zimbra web app

Note: Chat server application needs to be restarted when it is modified.

4. Account Provisioning Issues @

4.1. I ran provision all accounts, but some accounts are not created on Chat server @

Mailstore server does not ask Chat server to create an account if any of the following conditions are met:

- zimbraAccountStatus is not active on an account
- zimbraIsSystemAccount is TRUE on an account
- zimbraFeatureZulipChatEnabled is not TRUE on a domain or an account

4.2. I saw HTTP response status 504 error when I run provisioning chat accounts.

If you run "Provision all accounts" on Admin Console, you may see the following error message in a dialog.

It occurs when it is taking a long time to provision accounts. A http connection between a mailstore server and a Chat server is closed due to timeout. However, the provisioning process may still be running on the Chat server. If creating user logs are being added to /var/log/zulip/server.log, the process is running. For example,

```
1 2025-04-04 02:08:20.833 INFO [] creating user: user925@mydomain.com
2 2025-04-04 02:08:20.883 INFO [] creating user: user926@mydomain.com
3 ...
```

You don't need to (or should not) rerun "Provision all accounts". You can close the dialog on Admin Console, and just wait for the process to complete.

5. Chat Server Issues @

5.1. Issue - chatlogin succeeds but register fails. Provisioning commands succeed.

Logs:

```
1 /var/log/zulip/errors.log
```

- 2
- 3 2025-04-02 05:53:42.735 WARN [zulip.queue:9800] TornadoQueueClient attempting to reconnect to RabbitMQ
- 4 2025-04-02 05:53:42.741 ERR [pika.adapters.utils.io_services_utils:9800] Socket failed to connect: <socket.socket fd=18, family=2, type=1, proto=6, laddr=('127.0.0.1', 59468)>; error=111 (Connection refused)
- 5 2025-04-02 05:53:42.742 ERR [pika.adapters.utils.connection_workflow:9800] TCP Connection attempt failed: ConnectionRefusedError(111, 'Connection refused'); dest=(<AddressFamily.AF_INET: 2>, <SocketKind.SOCK_STREAM: 1>, 6, '', ('127.0.0.1', 5672))
- 6 2025-04-02 05:53:42.742 ERR [pika.adapters.utils.connection_workflow:9800] AMQPConnector reporting failure: AMQPConnectorSocketConnectError: ConnectionRefusedError(111, 'Connection refused')
- 7 2025-04-02 05:53:42.742 ERR [pika.adapters.utils.connection_workflow:9800] AMQP connection workflow failed: AMQPConnectionWorkflowFailed: 1 exceptions in all; last exception - AMQPConnectorSocketConnectError: ConnectionRefusedError(111, 'Connection refused'); first exception - None.
- 8 2025-04-02 05:53:42.742 ERR [pika.adapters.utils.connection_workflow:9800] AMQPConnectionWorkflow reporting failure: AMQPConnectionWorkflowFailed: 1 exceptions in all; last exception - AMQPConnectorSocketConnectError: ConnectionRefusedError(111, 'Connection refused'); first exception - None
- 9 2025-04-02 05:53:42.742 ERR [pika.adapters.base_connection:9800] Full-stack connection workflow failed: AMQPConnectionWorkflowFailed: 1 exceptions in all; last exception - AMQPConnectorSocketConnectError: ConnectionRefusedError(111, 'Connection refused'); first exception - None
- 10 2025-04-02 05:53:42.742 ERR [pika.adapters.base_connection:9800] Self-initiated stack bring-up failed: AMQPConnectionError: (AMQPConnectionWorkflowFailed: 1 exceptions in all; last exception -AMQPConnectorSocketConnectError: ConnectionRefusedError(111, 'Connection refused'); first exception - None,)
- 11 2025-04-02 05:53:42.742 WARN [zulip.queue:9800] TornadoQueueClient couldn't connect to RabbitMQ, retrying in 2 secs...

2

- 3 2025-04-02 05:53:17.386 ERR [pika.adapters.base_connection:9800] Self-initiated stack bring-up failed: AMQPConnectionWorkflowFailed: 1 exceptions in all; last exception - AMQPConnectorAMQPHandshakeError: ProbableAccessDeniedError: Client was disconnected at a connection stage indicating a probable denial of access to the specified virtual host: ('ConnectionClosedByBroker: (530) "NOT_ALLOWED - access to vhost \'/\' refused for user \'zulip\'"',); first exception - None
- 1 /var/log/rabbitmq/zulip@localhost.log
- 2

```
3 2025-04-02 05:53:15.590500+00:00 [info] <0.17977.0> accepting AMQP connection <0.17977.0> (127.0.0.1:60086 -> 127.0.0.1:5672)
```

- 4 2025-04-02 05:53:15.597951+00:00 [error] <0.17977.0> Error on AMQP connection <0.17977.0> (127.0.0.1:60086 -> 127.0.0.1:5672, state: starting):
- 5 2025-04-02 05:53:15.597951+00:00 [error] <0.17977.0> PLAIN login refused: user 'zulip' invalid credentials
- 6 2025-04-02 05:53:15.603483+00:00 [info] <0.17977.0> closing AMQP connection <0.17977.0> (127.0.0.1:60086 -> 127.0.0.1:5672)

Root cause: Tornade cannot access rabbitmq on zulip user due to invalid credentials. Password is stored in /etc/zulip/zulipsecrets.conf as rabbitmq_password. It should match actual password stored in rabbitmq. However, if it does not match for some reason, for example, accidentally rabbitmq_password in zulip-secrets.conf is modified and saved, authentication fails.

Fix: run the following commands to recreate zulip user on rabbitmq and restart rabbitmq and Chat server application.

```
1 (Run as root)
2 # /home/zulip/deployments/current/scripts/setup/configure-rabbitmg
3 Deleting user "zulip" ...
4 Deleting user "zulip" ...
5 Deleting user "guest" ...
6 Adding user "zulip" ...
7 Done. Don't forget to grant the user permissions to some virtual hosts! See 'rabbitmqctl help set permissions'
   to learn more.
8 Setting tags for user "zulip" to [administrator] ...
9 Setting permissions for user "zulip" in vhost "/" ...
10
11 # systemctl restart rabbitmq-server.service
12 # systemctl status rabbitmq-server.service
13 # su - zulip
14 $ /home/zulip/deployments/current/scripts/restart-server
15
```

6. Chat Scaling Issues @

6.1. Tornado Sharding beyond 10 processes 🖉

Tornado sharding scales properly till 9 processes. Scaling tornado shards to 10 or more than 10 processes may fail with exception TornadoQueueClient couldn't connect to RabbitMQ in zulip's /var/log/zulip/server.log.

The reason being port 9810 was already in use by smokescreen.

Please follow below steps to resolve this issue:

- Perform all below operations with zulip user
- Stop the smokescreen using supervisorctl stop smokescreen
- Start the chat services with zulip user using /home/zulip/deployments/current/scripts/start-server
- Check the status if all services are up using supervisorctl status
- If you find any services in stopped state, please try bringing them up individually. For example:
 - If zulip-django is not up, use supervisorctl start zulip-django to bring it up

• If zulip-tornado:zulip-tornado-port-9810 is not up, use supervisorctl start zulip-tornado:zulip-tornado-port-9810 to bring it up.

7. Zimbra Server Issues @

7.1. Issue - Proxy restart fails with "could not build map_hash" error @

Logs:

1 zimbra@proxy:~\$ zmproxyctl restart

2 Stopping proxy...nginx: [emerg] could not build map_hash, you should increase map_hash_bucket_size: 64 failed.

Root cause: The hash created based on zimbraChatBaseHost and zimbraZulipChatDomainId exceeds 64 length

Fix: Increase the localconfig value

```
1 zmlocalconfig -e proxy_web_map_hash_bucket_size=128
```

7.2. Issue - Proxy restart fails with "invalid number of arguments in map_hash_bucket_size directive" error @

Logs:

```
1 zimbra@proxy:~$ zmproxyctl restart
```

2 Starting proxy...nginx: [emerg] invalid number of arguments in "map_hash_bucket_size" directive in /opt/zimbra/conf/nginx/includes/nginx.conf.web:16

Root cause: map_hash_bucket_size is defined to refer the localconfig proxy_web_map_hash_bucket_size .

1 cat /opt/zimbra/conf/nginx/templates/nginx.conf.web.template

2 ...

3 map_hash_bucket_size \${web.map_hash_bucket_size};

The value can be modified and applied by executing zmproxyctl restart as described in Section 6.1.

However, there is a case that it is not referred correctly and then map_hash_bucket_size becomes empty for some reason.

```
1 cat /opt/zimbra/conf/nginx/includes/nginx.conf.web
2 ...
3 map_hash_bucket_size ;
```

Fix: Run zmcontrol restart on the proxy server instead of zmproxyctl restart.

7.3. Issue - Proxy restart fails with "host not found in upstream" error @

Logs:

- 1 zimbra@proxy:~\$ zmproxyctl reload
- 2 Reloading proxy...nginx: [emerg] host not found in upstream "domainlexamplecom.chatl.mydomain.com:443" in /opt/zimbra/conf/nginx/includes/nginx.conf.chat.upstream:66

Root cause: The hostname (FQDN) of Chat server or a realm URL for a domain cannot be resolved on the proxy server.

Fix:

- Check that the hostname has been registered in DNS. If it does not exist, register the hostname in DNS.
- · Refresh DNS cache on the proxy server
- It may take some time to reflect a change on DNS. If it needs be fixed immediately, you can add an entry to /etc/hosts on the proxy server as a workaround. Note that it needs to be applied on all proxy servers.

7.4. Issue - Hash not created in chat upstream file for a specific domain @

Issue: an upstream for a domain is not generated in /opt/zimbra/conf/nginx/includes/nginx.conf.chat.upstream

Root cause: either zimbraChatBaseHost or zimbraZulipChatDomainId is missing for the domain due to which server hash is not generated.

Fix: Update zimbraChatBaseHost and zimbraZulipChatDomainId followed by /opt/zimbra/libexec/zmproxyconfgen command

7.5. Issue - CSRF token mismatch @

Logs: CSRF token was invalid, rechecking with account object from LDAP.

Root cause: CSRF token configured on Zimbra and Chat server are not matching.

Fix: Match the CSRF

7.6. Issue - Unknown host exception @

Logs: java.net.UnknownHostException: domainlexamplecom.chatl.mydomain.com: Name or service not known

Root cause: The Url in the logs is not resolvable

Fix: Register the FQDN in DNS. As a temporary solution, update the required file (/etc/hosts) to make the URL resolvable.

7.7. Issue - Missing JWT key @

Logs: SoapEngine - handler exception java.lang.IllegalArgumentException: Empty key

Root cause: JWT is not configured on Zimbra server

Fix: Update zimbraChatJwtSecret on Zimbra server

7.8. Issue - New account cannot be searched on Basic Chat 🖉

Account search on Basic Chat is based on gal search. If Basic Chat search does not return a newly added account, GAL may not be configured correctly on the domain. You need to check the following items:

- If GAL mode is shown as "Internal" on Admin Console > domain setting > GAL, make sure zimbraGalMode is set to zimbra on CLI;
 zmprov gd DOMAIN zimbraGalMode
- If GAL mode is "Internal" or "both", make sure a galsync account has been configured.
- If there are multiple mailstore servers on your environment, make sure a galsync account has been configured on each mailstore server

If account still cannot be searched, run the following command for all galsync accounts on the domain.

1 zmgsautil forceSync -a [GAL_SYNC_ACCOUNT] -n [DATA_SOURCE_NAME]

You can find zimbraDataSourceName for the DATA_SOURCE_NAME by running zmprov gds [GAL_SYNC_ACCOUNT] (getDataSources) command.

FAQs @

General Questions *P*

1. Is there any tool for Migration of chats and groups from Connect to the new Chat?

Migration is not supported from older chat solutions, and there is no plan to provide a migration tool in future.

5. Can multiple Zimbra servers connect to one Chat server?

No. Multiple authentication from two Zimbra servers to a single Chat server is not supported.

6. When is a Chat server restart required?

On configuration changes or if a component is down. For more details refer: Troubleshooting Guide.

7. Is uninstalling the Chat server supported?

Uninstallation is not supported by the underlying open source chat platform and hence not supported in Zimbra Chat.

8. Is chat supported in Classic UI?

Yes, it is targeted for Zimbra Daffodil 10.1.8 release.

9. Are there benchmarks or required resources for Chat servers?

Yes, For more details refer: Sizing & Scaling Guide section.

Note: Performance of any chat solution heavily depends on the usage pattern of the users, so it may not match exactly with the benchmarks provided here.

10. Can chat history be exported, erased, or edited?

Yes, chat history can be exported.

11. Is file sharing supported in Advanced Chat? Can it be restricted?

Yes. Administrators can configure restrictions in settings.py:

```
1 DISALLOWED_FILE_EXTENSIONS = ["exe", "bat", "sh", "cmd"]
```

- 2 MAX_FILE_UPLOAD_SIZE = 10
- 3 UPLOADED_FILES_EXPIRED_AFTER_DAYS = 30

13. Is there a separate mobile application or desktop application available for Zimbra Chat?

Not yet but it is under consideration for the future roadmap.

15. Does Chat support external authentication if Zimbra does?

Yes. The chat installer will prompt for external auth details.

16. Does Chat work with LDAPS (port 636)?

Yes. It can be configured using chat installer

Admin-Specific Questions @

17. Can a domain admin manage Chat settings or manage chat accounts?

Yes, a domain admin can manage Chat settings and manage chat accounts on Admin Console.

A global admin can configure grants on a domain admin as follows:

- Create a domain admin account
- · Set admin views to see Chat settings in account, COS and domain:
 - Account List View
 - Class Of Service List View
 - Domain List View
- Add the following grants to the domain admin:

1	adminConsoleAccountRights	target	type:	domain,	target	name:	DOMAIN_NAME
2	domainAdminCosRights	target	type:	COS,	target	name:	COS_NAME
3	adminConsoleDomainRights	target	type:	domain,	target	name:	DOMAIN_NAME
4	listZimlet	target	type:	zimlet,	target	name:	<pre>zimbra-zimlet-admin-chat</pre>
5	getZimlet	target	type:	zimlet,	target	name:	<pre>zimbra-zimlet-admin-chat</pre>

Account:

- 1 target type: domain, target name: DOMAIN NAME
- 2 set.account.zimbraFeatureZulipChatEnabled
- 3 set.account.zimbraFeatureBasicOneToOneChatEnabled
- 4 set.account.zimbraFeatureAdvancedChatEnabled

COS:

- 1 target type: cos, target name: COS_NAME
- 2 set.cos.zimbraFeatureZulipChatEnabled
- 3 set.cos.zimbraFeatureBasicOneToOneChatEnabled
- 4 set.cos.zimbraFeatureAdvancedChatEnabled

Domain:

- 1 target type: domain, target name: DOMAIN_NAME
- 2 set.domain.zimbraZulipChatDomainId
- 3 set.domain.zimbraFeatureZulipChatEnabled
- 4 set.domain.zimbraFeatureBasicOneToOneChatEnabled
- 5 set.domain.zimbraFeatureAdvancedChatEnabled

Limitations:

Regardless of whether the admin manages multiple domains on the Zimbra non-chat environment, the domain admin's permissions allow them to manage Chat accounts (get, provision, activate, and deactivate) only within their own domain.

Example:

You belong to domainA (i.e. your email address is domain_admin@domainA), and you have admin privilege to manage domainA and domainB on the Zimbra mailbox. In such case, you can manage the Chat accounts on domainA, but cannot on domainB. If you want to manage the chat accounts on domainB, you need to have an account of domainB with a domain admin rights.

17. Can a domain administrator create a realm?

No, only a global administrator can create a realm on Chat server.

18. Can I access as Owner or Administrator of a realm on Advanced Chat?

When you log in to an admin account and go to Advanced Chat, Owner or Administrator role is applied under the following conditions:

• Admin account with zimbraIsDomainAdminAccount = TRUE: Owner of a realm

- Admin account with zimbraIsAdminAccount or zimbraIsDelegatedAdminAccount = TRUE : Administrator of a realm
- · Non-admin account: Member of a realm

Roles:

- Owner can manage users, public channels and organization (i.e. domain or a realm) settings. Owners can do anything that an organization administrator can do.
- Administrator can manage users, public channels and organization settings. Administrator cannot make someone an owner, or change an existing owner's role.
- · Member has access to all public channels.

19. How can I restart Chat server process?

Run as root on Chat server:

```
1 # systemctl restart nginx.service
```

- 2 # su zulip
- 3 \$ /home/zulip/deployments/current/scripts/restart-server

20. Can I see existing realms on Chat server?

Run as zulip on Chat server:

1 /home/zulip/deployments/current/manage.py list_realms

21. Can I remove an account from Chat server completely?

When an account is removed from Zimbra, its chat account is deactivated automatically. To remove it completely:

Run as zulip on Chat server:

```
1 # Dry run
2 /home/zulip/deployments/current/manage.py delete_user -u EMAIL_ADDRESS
3 
4 # Delete user
5 /home/zulip/deployments/current/manage.py delete_user -u EMAIL_ADDRESS -f
```

Warning: All chat conversation messages sent by the account will no longer be available.

22. Can I provision and manage accounts on Chat server using CLI?

Admin Console provides the following functions in domain settings:

- · Get all accounts in a realm on a Chat server
- · Provision all accounts in a domain to a Chat server
- Provision a single account in a domain to a Chat server
- · Activate an account on a Chat server
- · Deactivate an account on a Chat server

You can do the same using CLI. Each command needs to run as zimbra user on a mailstore server. See SOAP API Reference Manual for more details.

Get all accounts in a realm on a Chat server

- 1 \$ zmsoap -z -type admin GetAllChatAccountsRequest / domain="domain1.example.com" @by="name"
- 2 <GetAllChatAccountsResponse xmlns="urn:zimbraAdmin">
- 3 <account>

4	false
5	46
6	deleteduser46@domainlexamplecom.chat1.mydomain.com
7	
8	<account></account>
9	true
10	436
11	userl@domain1.example.com
12	
13	

If a user has been deleted (not deactivated), localpart has deleteduser prefix and domain reflects realm URL.

Provision all accounts in a domain to a Chat server

- 1 \$ zmsoap -z -type admin ProvChatAccountsRequest / domain="domainl.example.com" @by="name"
- 2 <ProvChatAccountsResponse xmlns="urn:zimbraAdmin">
- 3 <numSucceeded>10</numSucceeded>
- 4 <numFailed>0</numFailed>
- 5 </ProvChatAccountsResponse>

Provision an account in a domain to a Chat server

- 1 \$ zmsoap -z -type admin ProvChatAccountsRequest / domain="domain1.example.com" @by="name" ../
 account="user2@domain1.example.com" @by="name"
- 2 <ProvChatAccountsResponse xmlns="urn:zimbraAdmin">
- 3 <numSucceeded>1</numSucceeded>
- 4 <numFailed>0</numFailed>
- 5 </ProvChatAccountsResponse>

Get an account on a Chat server

- 1 \$ zmsoap -z -type admin ManageChatAccountRequest @action="get" / account="userl@domainl.example.com" @by="name"
- 2 <ManageChatAccountResponse xmlns="urn:zimbraAdmin">
- 3 true
- 4 436
- 5 userl@domainl.example.com
- 6 </ManageChatAccountResponse>

Deactivate an account on a Chat server

- 1 \$ zmsoap -z -type admin ManageChatAccountRequest @action="deactivate" / account="userl@domainl.example.com"
 @by="name"
- 2 <ManageChatAccountResponse xmlns="urn:zimbraAdmin">
- 3 false
- 4 436
- 5 userl@domainl.example.com
- 6 </ManageChatAccountResponse>

Activate an account on a Chat server

- 1 \$ zmsoap -z -type admin ManageChatAccountRequest @action="activate" / account="userl@domainl.example.com" @by="name"
- 2 <ManageChatAccountResponse xmlns="urn:zimbraAdmin">
- 3 true
- 4 436

5 userl@domainl.example.com

6 </ManageChatAccountResponse>

23. Can I deploy Chat server without a valid SSL certificate for testing?

Yes, but not recommended for production use.

If no valid SSL certificate or Let's Encrypt is available:

- Install Chat server with self-signed SSL type.
- Set ssl_allow_untrusted_certs=true on all mailstore servers:

Run as zimbra on mailstore servers:

- 1 \$ zmlocalconfig -e ssl_allow_untrusted_certs=true
- 2 \$ zmmailboxdctl restart

Warning: Affects all outbound communication from the mailstore server and poses a security risk. Do not use in production.