ESS LTS 24.04 Change Logs and Upgrade Notes

LTS 24.04 Changelogs and important Update Notes, always check here before upgrading!

Upgrade Notes for the 24.04 LTS

If you are planning on upgrading to the LTS we always recommend upgrading to the latest LTS patch version, however you should be aware of all significant upgrade notes from each prior patch version. They have been collated for convenience below, you can find the full changelogs of each release there after.

• 24.04.20-gui	The required Python versions are now 3.9, 3.10, 3.11. These are available on all supported OS distributions. The installer will attempt to install the required packages in some scenarios. Airgapped customers should ensure that Python 3.9 packages are available in their package mirrors. Alternatively, Python 3.9, 3.10, or 3.11 can be preinstalled on the server in all situations.
• 24.04.05-gui	**Major Change**: The standalone installer now upgrades microk8s gracefully automatically. The microk8s upgrade procedure does not anymore involve an uninstall/reinstall of microk8s. It now will automatically upgrade microk8s to the expected version, and the flag `--upgrade-cluster` has been removed. Any customization to CNI Configuration in `/var/snap/microk8s/current/args/cni-network/cni.yaml` will have to be reconfigured. During the upgrade, microk8s will restart, and add-ons will be disabled to force an upgrade. It can induce a small downtime of a couple of minutes.
• 24.04.01-gui	This release contains an important Synapse security fix with a backwards incompatible change. Please note that simply reverting this ESS release is not possible. **Please ensure to have a working backups before upgrading as downgrading is not a possibility from this release.**

24.04.21-gui

Upgrade Notes

• Enterprise / Starter	Upgrade ElementWeb to v1.11.81.

Bug Fixes

• Enterprise / Starter	Fix potential permissions issues during microk8s upgrades.
• Enterprise	Correctly import airgapped registry settings when upgrading from before 24.04.
• Enterprise / Starter	Improve reliability of some microk8s interactions.

24.04.20-gui

Release Summary

The required Python versions are now 3.9, 3.10, 3.11. These are available on all supported OS distributions. The installer will attempt to install the required packages in some scenarios. Airgapped customers should ensure that Python 3.9 packages are available in their package mirrors. Alternatively, Python 3.9, 3.10, or 3.11 can be preinstalled on the server in all situations.

New Features

• Enterprise / Starter	Check for supported Python versions when starting a deployment run. Recreate the virtual environment if it is using the wrong Python version.
• Enterprise / Starter	Speed improvements in the operator/updater reconciliation process.
• Enterprise / Starter	The installer now ensures that the microk8s version on the host is supported before starting the upgrade process.
• Enterprise / Starter	Allow configuration of the operator and updater with debug logs.

Upgrade Notes

• Enterprise	Global upgrade of the monitoring stack. Victoria Metrics is now on version 1.101.

• Enterprise / Starter	Services got renamed, `-headless` suffixes are all removed. If you are using Network Policies, those will need to be upgraded to the new names.
• Enterprise / Starter	Upgrade microk8s to 1.30. The standalone installer now upgrades microk8s automatically. Any customization to CNI Configuration in `/var/snap/microk8s/current/args/cni-network/cni.yaml` will have to be reconfigured. This upgrade will induce a small downtime of a couple of minutes.
• Enterprise / Starter	Upgrade to cert-manager 1.12.13.

Security Issues

• Enterprise / Starter	Upgrade to Ansible 8 for security fixes.

Bug Fixes

• Enterprise	Fix empty dashboards (NGinx, Kubernetes Workloads, etc) in Grafana.
• Enterprise / Starter	Remove unneeded reconciliations due to bad orphan detection.
• Enterprise / Starter	Fix updater metrics scraping.
• Enterprise / Starter	Fix microk8s stop command not stopping running containers.
• Enterprise / Starter	Improve reliability of some microk8s interactions.
• Enterprise	Fix missing VMAlert component, which is required to gather record metrics.
• Enterprise / Starter	Validate that the node IP is excluded from a HTTP Proxy if one is configured.
• Enterprise / Starter	Improve reliability of changing the Postgres password in the cluster if the password seed changes.
• Enterprise / Starter	Improve reliability of setting up CoreDNS.
• Enterprise	Construct storage for Matrix Content Scanner if deploying on ESS managed microk8s.

24.04.19-gui

New Features

• Enterprise	Backport authenticated media APIs (MSC3916) to Synapse LTS.
• Enterprise / Starter	Scrape Synapse HAProxy metrics.
• Enterprise	Scrape Adminbot and Auditbot HAProxy metrics.
• Enterprise	Set default volume sizes for Matrix Content Scanner volumes.
• Enterprise	Set default volume sizes for Adminbot, Auditbot & Sydent volumes.

Bug Fixes

• Enterprise	Ensure operator and updater metrics are correctly scraped.
• Enterprise	Ensure Telemetry room permissions are consistent.
• Enterprise	Ensure component settings for `storageClassName` override the global setting.

24.04.18-gui

Upgrade Notes

• Enterprise	Upgrade Auditbot to 6.1.2 to improve overall request handling efficiency, especially at high-loads.

24.04.17-gui

Bug Fixes

• Enterprise / Starter	Fix pulling operator & updater images from behind a proxy.

24.04.16-gui

Upgrade Notes

- Enterprise / Starter — Upgrade ElementWeb to v1.11.75.

- Enterprise — Upgrade Hydrogen to v0.4.1-fix

Bug Fixes

- Enterprise / Starter — Enable MSC 3967 on Synapse to avoid some device verification issues.

- Enterprise — Setup the onprem-admin user as a MAS admin

24.04.15-gui

Bug Fixes

- Enterprise / Starter — Fix proxy variables configuration check preventing the installer from going through.

- Enterprise / Starter — Fix an issue preventing setup when a proxy is configured on the host. On proxy configuration errors, the installer will now continue the setup process after displaying the verification error message.

24.04.14-gui

Upgrade Notes

- Enterprise / Starter — Upgrade ElementWeb to v1.11.73.

- Enterprise — Upgrade SecureBorderGateway to v1.2.0

24.04.13-gui

New Features

• Enterprise	Adminbot/Auditbot + MAS compatibility

Upgrade Notes

• Enterprise	Update Adminbot & Auditbot to Pipe 6.1.1
• Enterprise / Starter	Matrix Content Scanner upgrade to 1.0.8

Bug Fixes

• Enterprise	Fix display of the status of the reconciliation.
• Enterprise	Fix Coturn page causing a memory leak.
• Enterprise / Starter	Increase Matrix Content Scanner ClamAV startup reliability
• Enterprise / Starter	Reduce false positives from Matrix Content Scanner
• Enterprise / Starter	Fix microk8s services subnet parsing.

24.04.12-gui

New Features

• Enterprise / Starter	Speed up initial Synapse deploy
• Enterprise	Add the possibility to configure user deprovisioning and rooms cleanup in GroupSync

Bug Fixes

• Enterprise / Starter	Make sure `nf_conntrack` module is loaded in the kernel when deploying in standalone mode.

24.04.11-gui

New Features

• Enterprise	Add the possibility to configure a matrix stats endpoint
• Enterprise	Setup the onprem-admin user as a MAS admin
• Enterprise	Allow configuration of empty (no) disallowed IP ranges in Hookshot
• Enterprise	Validate Synapse Telemetry is consistently set
• Enterprise / Starter	Synapse improve worker configuration
• Enterprise / Starter	Allow blocking of non-scanned media

Upgrade Notes

• Enterprise / Starter	On RHEL and derived platforms, it now requires `python 3.11` installed.

Bug Fixes

• Enterprise / Starter	On RHEL and derived platforms, the installer should not rely on `platform-python` for other tasks than Firewalld and SELinux tasks for microk8s setup.
• Enterprise / Starter	Fix some CVEs in the operator/updater/conversion webhook
• Enterprise / Starter	Fix Matrix Content Scanner not working as expected
• Enterprise	Configure max upload size in Secure Border Gateway request body size limit

24.04.10-gui

Security Issues

- Enterprise

  Better image signatures, enterprise is now published to sigstore

Bug Fixes

- Enterprise / Starter

  Refactor synapse config files to own the priority of each setting managed by ESS

- Enterprise

  Sygnal upgrade to 0.15.0 for further Firebase API fixes

- Enterprise

  Adminbot and Auditbot are currently incompatible with MAS

- Enterprise

  Synapse - override botocore CA bundle to allow pushing against non-AWS S3 providers

- Enterprise

  Add support for Element Call configuration in Element Well Known file

- Enterprise

  Matrix Authentication Service - fix UI configuration of certificates for ingresses

- Enterprise

  Minor speed up to initial setup of Synapse

- Enterprise

  Prevent users from editing auditbot and adminbot passphrase in the UI.

- Enterprise

  Enforce pattern checks against inputs under options.

24.04.09-gui

Security Issues

- Enterprise

  Previous update might have enabled unexpectedly outbound webhooks in Hookshot. If you don't need this feature, make sure that it is disabled in Hookshot integration, under Generic Webhooks settings.

Bug Fixes

- Enterprise

Reduce secrets leaks from operator & updater logs. If you need, for debugging purposes, to enable secrets logging, you must edit the operator & updater deployments and set the environment variable `DEBUG_MANIFESTS=1`

24.04.08-gui

New Features

- Enterprise

Add support for Outbound webhooks in Hookshot.

- Enterprise

Synapse OIDC support attribute requirements

Upgrade Notes

- Enterprise

Upgrade Adminbot & Auditbot to using matrix-pipe 5.1.0, based on Rust Crypto SDK.

- Enterprise

Upgrade Sygnal to 0.14.3 to support latest Firebase API.

Bug Fixes

- Enterprise

Fixes an issue where auditbot UI would fail to open because tokens were unable to refresh.

- Enterprise

Fix a critical issue which would prevent users from accessing Adminbot and Auditbot UI.

- Enterprise

Revert change of 24.04.07 which prevented adminbot and auditbot from doing an initial sync.

- Enterprise

Create new devices for adminbot and auditbot to work with the new rust sdk cryptographic libraries.

24.04.07-gui

New Features

• Enterprise	Add support for Outbound webhooks in Hookshot.
• Enterprise	Synapse OIDC support attribute requirements

Upgrade Notes

• Enterprise	Upgrade Adminbot & Auditbot to using matrix-pipe 5.1.0, based on Rust Crypto SDK.
• Enterprise	Upgrade Sygnal to 0.14.3 to support latest Firebase API.

Bug Fixes

• Enterprise / Starter	Fix an issue preventing setup when a proxy is configured on the host.
• Enterprise	Attempt to detect OpenShift and configure operator & updater installation values appropriately

24.04.06-gui

New Features

• Enterprise	Allow configuration of Synapse database connection pool sizes
• Enterprise	Expose Operator & Updater metrics
• Enterprise	Add a ServiceMonitor to scrape metrics of microk8s ingress.

Upgrade Notes

• Enterprise	Upgrade Adminbot for more reliable decryption support
• Enterprise / Starter	Upgrade to cert-manager 1.12.11

Bug Fixes

• Enterprise	Don't include cert-manager in the airgapped tarball. ESS doesn't install or manage cert-manager in airgapped deploys
• Enterprise / Starter	Allow well-known delegation to omit configuration of the ingress entirely without triggering unknown variable errors
• Enterprise / Starter	Allow configuration of Matrix Content Scanner without a storage class name
• Enterprise / Starter	Mark Postgres configuration as required for all components that use a Postgres database
• Enterprise	Mark the source for GroupSync as required
• Enterprise	Remove workloads and dependent CRs from statuses when they're no longer deployed
• Enterprise	Fix provisioning of users that are not rate-limited
• Enterprise	Better identification for the Telegram and WhatsApp bridges in their respective apps
• Enterprise	Avoid leaking Postgres connections when there are issues provisioning Synapse users
• Enterprise	SIPBridge - Disable Virtual rooms
• Enterprise / Starter	Fix an issue where the cert manager issuer would try to be created but the cert-manager webhook would not be ready.
• Enterprise	Fix monitoring of kube etcd and kube scheduler on microk8s.

24.04.05-gui

New Features

• Enterprise / Starter	**Major Change**: The standalone installer now upgrades microk8s gracefully automatically. The microk8s upgrade procedure does not anymore involve a uninstall/reinstall of microk8s. It now will automatically upgrade microk8s to the expected version, and the flag `--upgrade-cluster` has been removed. Any customization to CNI Configuration in `/var/snap/microk8s/current/args/cni-network/cni.yaml` will have to be reconfigured. During the upgrade, microk8s will restart, and addons will be disabled to force an upgrade. It can induce a small downtime of a couple of minutes.

• Enterprise	Status watchers are now golang containers. Resources used by the operator and updater are now reduced.

Upgrade Notes

• Enterprise	Upgrade Telegram bridge to 0.15.1-mod-1
• Enterprise	Upgrade WhatsApp bridge to 0.10.7-mod-1

Bug Fixes

• Enterprise / Starter	Fix haproxy failing on ipv4-only nodes.
• Enterprise	Fix inconsistent behaviour when switching between S3/Persistent volume option under media tab.
• Enterprise / Starter	Fix watchers to avoid triggering unneeded reconciliation loops
• Enterprise	GroupSync - Fix issue when LDAP identities contain commas in their names.
• Enterprise / Starter	Fix cert-manager upgrade failing to remove old resources.
• Enterprise	Fix media screen on standalone setup.
• Enterprise / Starter	Remove `--upgrade-cluster` parameter as microk8s is now upgraded gracefully.
• Enterprise / Starter	Fix operator and updater having permissions issues under Openshift
• Enterprise / Starter	Fix Jitsi JVB fails to get ready when STUN servers list is empty and Coturn is not deployed.
• Enterprise / Starter	The installer does not flake anymore between bootstrap and installer view when the kubernetes cluster is not reachable intermittently.
• Enterprise	Configuring monitoring stack persistent volumes properly in microk8s requires to recreate their statefulsets.
• Enterprise	Fix an ansible error when installing the telemetry script on the local host when user GID != UID.
• Enterprise	Fix missing storage class on some Monitoring PVCs.

24.04.04-gui

Bug Fixes

• Enterprise / Starter	Improve robustness of adding custom well-known delegation configuration
• Enterprise / Starter	Fix missing media tab in the Admin Console when using microk8s.
• Enterprise	Fix Enable DM Admin not being respected for Adminbot
• Enterprise / Starter	Fix failure regenerating installer authentication links.

24.04.03-gui

New Features

• Enterprise	Improve GroupSync performance with large member lists
• Enterprise	Add Azure Blob Storage support to Auditbot
• Enterprise	Config GroupSync memory usage based on resource limits/requests

Upgrade Notes

• Enterprise / Starter	Upgrade Element Web to 1.11.66

Bug Fixes

• Enterprise	Improve reliability of Synapse user provisioning
• Enterprise	Improve Jitsi timezone validation
• Enterprise / Starter	Improve Postgres shutdown behaviour when using the ESS Postgreses in cluster

24.04.02-gui

Upgrade Notes

• Enterprise	Upgrade airgapped microk8s to 1.27.13

Bug Fixes

• Enterprise	Fix issue upgrading from 23.10 LTS in an Airgapped environment where images weren't uploaded to the registry anymore
• Enterprise	Synapse HTTP proxy settings can now be edited in the installer.
• Enterprise / Starter	Media volume name and size can now be configured for standalone cluster deployments.

24.04.01-gui

Release Summary

23.10.29 LTS to 24.04.01 LTS highlights

This release has focused on making deployments on Kubernetes more reliable. A lot of bugs were fixed, and helm charts have been enhanced to allow to deploy webhooks and CRDs together without the operator and updater.

LTS New Features

• Enterprise / Starter	The admin app now allows viewing of uploaded media
• Enterprise	Add WhatsApp Bridge support
• Enterprise	Check the health of the deployment or a component using `kubectl describe` against any Element CRs, in the `status`. Our documentation describes how to configure ArgoCD to get these informations into your Application health.
• Enterprise	Add the possiblity to configure S3 for Synapse media storage.

• Enterprise	Improve support for non-OIDC compliant upstream identity providers with Matrix Authentication Service,
• Enterprise / Starter	Allow configuration of seLinuxOptions on all workloads.
• Enterprise	Enable simple configuration of whether Element Web generates sharing links with its own URL or matrix.to
• Enterprise	When using Airgapped deployment, it is now possible to login to the target upload registry in the installer UI.
• Enterprise / Starter	A couple of speedups have been implemented both in the operator and the installer.
• Enterprise / Starter	Change deploy order of components to have the core components deployed first by the updater.
• Enterprise / Starter	The operator and the updater are now built based on distroless container, to reduce the image size and contents.
• Enterprise	Auditbot UI does not need any ingress anymore.
• Enterprise / Starter	The installer now contains crictl to allow for local ctr daemon maintenance on microk8s.
• Enterprise	Reduce required resources for Standalone to 2 vCPU and 3Gb of memory.
• Enterprise / Starter	Reduce postgres in cluster requests to 100Mi.
• Enterprise	Add participant limit field in ElementCall configuration.
• Enterprise / Starter	Add support for tolerations and nodeSelectors on workload.
• Enterprise	Coturn is now managed by the UI view, by the updater, alongside ElementCall and Jitsi. It is now possible to deploy Coturn on a Kubernetes cluster.
• Enterprise / Starter	We now configure automatically a CPU Limit of each Operator & Updater to be 25% of the machine vCPUs on standalone. The node still needs at least 2 vCPUs to work properly. On Kubernetes deployment, there's no CPU limit. The number of workers will be adapted relatively to the memory available to the operator/updater.

LTS Upgrade Notes

This new LTS can be upgraded from 23.10 if you want to get the new latest features of ESS.

LTS Version Updates

• Enterprise / Starter	Update operator-sdk to v1.34.1

• Enterprise	Update Hookshot to 5.2.1
• Enterprise / Starter	Update ElementWeb to v1.11.64
• Enterprise / Starter	Update SlidingSync to v0.99.15
• Enterprise	Update Synapse to v1.99.0 with CVE-2024-31208 fix
• Enterprise	Update Element Call to 0.5.16 and LiveKit to 1.5.1
• Enterprise	Update Sydent to 2.6.1

LTS Synapse security release

This release contains a fix for GHSA-3h7q-rfh9-xm4v / CVE-2024-31208, a high severity Synapse security issue. Upgrading is advised at the soonest possible moment.

Important notes regarding rollback of this release

This release contains an important Synapse security fix with a backwards incompatible change. Please note that simply reverting this ESS release is not possible.

Please ensure to have a working backups before upgrading as downgrading is not a possibility from this release.

New Features

• Enterprise	Check the health of the deployment or a component using kubectl describe against any Element CRs, in the status. Our documentation describes how to configure ArgoCD to get these information into your Application health.
• Enterprise	Add the possibility to configure S3 for Synapse media storage.
• Enterprise	Add options under Delegated Auth to configure users profiles editing permissions.
• Enterprise	Improve support for non-OIDC compliant upstream identity providers with Matrix Authentication Service
• Enterprise / Starter	Allow configuration of seLinuxOptions on all workloads
• Enterprise	Enable simple configuration of whether Element Web generates sharing links with its own URL or matrix.to
• Enterprise	Support GCM/FCM API v1 in Sygnal

• Enterprise / Starter	Configure ansible poll interval to 0.01 to reduce CPU load
• Enterprise / Starter	A couple of speedups have been implemented both in the operator and the installer.
• Enterprise / Starter	We now configure automatically a CPU Limit of each Operator & Updater to be 25% of the machine vCPUs on standalone. The node still needs at least 2 vCPUs to work properly. On Kubernetes deployment, there's no CPU limit. The number of workers will be adapted relatively to the memory available to the operator/updater.

Upgrade Notes

• Enterprise / Starter	Update operator-sdk to v1.34.1
• Enterprise	Update Hookshot to 5.2.1
• Enterprise / Starter	Update SlidingSync to v0.99.15
• Enterprise	Update Synapse to v1.99.0 with CVE-2024-31208 fix
• Enterprise / Starter	Upgrade Element Web to v1.11.64.
• Enterprise	Upgrade Matrix Authentication Service to v0.9.0.
• Enterprise	Update Secure Border Gateway to v1.1.1.
• Enterprise	Upgrade Group Sync to v0.13.6.
• Enterprise	Element Call 0.5.16 and LiveKit 1.5.1
• Enterprise	Sydent 2.6.1
• Enterprise	Make Jitsi and Element Call STUN configuration consistent with each other to ease the upgrade from 23.10.
• Enterprise	Upgrade Sygnal to v0.14.1.

Security Issues

• Enterprise	Upgrade IRC Bridge to 2.0.0 to fix CVE-2024-32000.

Bug Fixes

• Enterprise / Starter	Correctly install apt package python3-venv on recent ubuntu version.
• Enterprise	Fixes to how Admin/Auditbot configs are maintained in the installer.
• Enterprise / Starter	Improve installer one-time login codes security.
• Enterprise / Starter	Mitigate installer log injections via HTTP headers.
• Enterprise	Fix admin console discovery of OIDC to use MSC2956.
• Enterprise	Update Auditbot S3 object name to one that will not clash with other files.
• Enterprise	Fix issues passing in Coturn external-ip and enabling host mode.
• Enterprise / Starter	Fix an issue where Auditbot S3 storage would prune files too early.
• Enterprise / Starter	Fix an issue with Jitsi where it would not be possible to configure the Sync Power Level in the Restrict Widgets to Synapse configuration.
• Enterprise	AdminBot and Matrix Authentication Service can now be deployed together
• Enterprise	Upgrade Synapse Admin to better support homeservers using SRV delegation
• Enterprise	Fix support for APNS notifications in Sygnal going via a HTTP Forward Proxy
• Enterprise	Fix configuration of multiple TURN servers in Synapse when manually configuring
• Enterprise	Fix Sydent Terms & Conditions having a version that's just a number
• Enterprise / Starter	Fix ServiceMonitors being left behind when components are removed
• Enterprise	Fix SIP Bridge Services clashing
• Enterprise	Fix a bug which could make airgapped impossible to deploy due to microk8s snap refresh being in error state.
• Enterprise	Fix Synapse bootstrap phase getting stuck due to incompatible registration options.
• Enterprise / Starter	Stop displaying NGINX version on error pages.
• Enterprise	Clarify and improve validation of TURN server configuration section.
• Enterprise	Ignore Adminbot/Auditbot users in IRC admin rooms.
• Enterprise	Fix an issue where configuring Coturn would lead to infinite reconciliation.

Other

- Enterprise   Clean up unused Matrix Authentication Service spa HTTP resource.

- Enterprise   Auditbot no longer requires the configuration of a dedicated UI ingress. This is handled by Synapse Admin UI now

- Enterprise   Clarify description of Synapse default room encryption section.