

Cloudera AI ..

## Upgrading Cloudera AI Inference service

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# CLOUdera

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# Prerequisites for upgrading Cloudera AI Inference service

Before upgrading Cloudera AI Inference service, you must fulfill all prerequisites.

Check the following requirements, permissions and roles for upgrading Cloudera AI Inference service:

## Roles and permissions

You must have the following roles:

- MLAdmin role
- EnvironmentAdmin role

## Platform requirements

You must meet the following platform requirements:

- For OpenShift Container Platform-based deployments:
  - The OpenShift Container Platform cluster must be upgraded before upgrading the Cloudera AI Inference service.
  - The OpenShift Container Platform must be version 4.19 or higher.

## Service state

Check the statuses of the following services:

- The Cloudera AI Inference service must be in the Ready state.
- The Upgrade option is available only when a higher Cloudera AI Inference service version is supported.



### Note:

If the service is in a failed, started, or any in-progress state, wait until the operation completes or resolve the issue before proceeding with the upgrade.

## Infrastructure requirements

You must meet the following infrastructure requirements:

- The Kubernetes cluster is healthy and reachable.
- Network connectivity between the on-premises cluster and the configured custom Docker Registry (if any) is stable.
- The Kubeconfig credentials with appropriate permissions are configured and up to date.
- Sufficient resources, CPU, GPU, and memory, are available in the cluster.

## Storage requirements

You must meet the following storage requirements:

- The configured storage backend, which is NFS, S3-compatible, or equivalent, is accessible.
- Storage credentials are valid.

## Related Information

[Limitations to upgrading Cloudera AI Inference service](#)

[Additional resource requirements for Cloudera AI Inference service](#)

[Updating Cloudera AI Inference service instance using the UI](#)

# Upgrading Cloudera AI Inference service using the UI

Upgrade the Cloudera AI Inference service using the UI. Upgrading the Cloudera AI Inference service is available in Cloudera AI on premises 1.5.5 SP2 and higher releases.

## About this task

You can upgrade an existing Cloudera AI Inference service instance when a higher supported version becomes available. Upgrading allows you to take advantage of new features, performance improvements, security updates, and supported component versions.

Upgrade your Cloudera AI Inference service in the following cases:


- A new version of Cloudera AI Inference service is released.
- Security patches or critical bug fixes are available.
- New features or enhancements are required.
- Alignment with the latest supported Kubernetes, Istio, or serving components is needed.

## Procedure

1. In the **Management Console**, click the **Cloudera AI** tile.

The **Cloudera AI** page displays.

2. Click **AI Inference Services** under **ADMINISTRATION** on the left navigation menu.

3. Select the Cloudera AI Inference service instance you want to upgrade and click  next to the instance.

4. Select the Upgrade action.

The upgrade confirmation dialog displays.

5. Click OK to initiate the upgrade.

## Results

Upgrade results

### Successful upgrade

In case of successful upgrade the Inference service status changes to upgrade:finished and the service returns to the Ready state.

### Failed upgrade

In case of a failed upgrade, the Inference service status changes to upgrade:failed.

Proceed with performing the following actions:

- Review the Event Logs for failure details.
- Resolve any reported issues.
- Retry the upgrade if applicable.

## What to do next

Post-upgrade verification

After a successful upgrade, verify the following details:

Verify the Inference service health by performing the following actions:

- Checking if the Inference service status is Ready with upgrade:finished.
- Checking that all Cloudera AI Inference service pods are running and healthy.

Verify the version of the Cloudera AI Inference service by:

- Confirming that the Cloudera AI Inference service version reflects the target version.
- Reviewing version details on the Inference service details page.

### Related Information

[Prerequisites for upgrading Cloudera AI Inference service](#)

[Limitations to upgrading Cloudera AI Inference service](#)

## Upgrading Cloudera AI Inference service using the CLI

Upgrade the Cloudera AI Inference service using the CLI. Upgrading the Cloudera AI Inference service is available in Cloudera AI on premises 1.5.5 SP2 and higher releases.

You can upgrade an existing Cloudera AI Inference service instance when a higher supported version becomes available. Upgrading allows you to take advantage of new features, performance improvements, security updates, and supported component versions.

Upgrade your Cloudera AI Inference service in the following cases:

- A higher version of Cloudera AI Inference service is released.
- Security patches or critical bug fixes are available.
- New features or enhancements are required.
- Alignment with the latest supported Kubernetes, Istio, or serving components is needed.

Use the following command to upgrade the Cloudera AI Inference service:

```
cdp --no-verify-tls ml upgrade-ml-serving-app --cli-input-json '{
  "appCrn": "crn:cdp:ml:us-west-1:9e230228-5d32-4adf-936c-a713614d41ea:mls
  erving:5eaac17c-df0a-4aa8-bfd5-c07d6fdafc74"
}'
```

When the upgrade has started the Inference service status changes to `upgrade:started`.

Monitor the progress of the upgrade by performing the following actions:

- Viewing the status on the service listing page.
- Reviewing Event Logs for detailed progress.
- Checking the service details page.

### Upgrade results

#### Successful upgrade

In case of successful upgrade the Inference service status changes to `upgrade:finished` and the service returns to the Ready state.

#### Failed upgrade

In case of a failed upgrade, the Inference service status changes to `upgrade:failed`.

Proceed with performing the following actions:

- Review the Event Logs for failure details.
- Resolve any reported issues.
- Retry the upgrade if applicable.

### Post-upgrade verification

After a successful upgrade, verify the following details:

Verify service health by performing the following actions:

- Checking if the Inference service status is Ready with upgrade:finished.
- Checking that all Cloudera AI Inference service pods are running and healthy.

Verify the version of the Cloudera AI Inference service by:

- Confirming that the Cloudera AI Inference service version reflects the target version.
- Reviewing version details on the service details page.

#### **Related Information**

[Prerequisites for upgrading Cloudera AI Inference service](#)

[Limitations to upgrading Cloudera AI Inference service](#)

## **Limitations to upgrading Cloudera AI Inference service**

Upgrading Cloudera AI Inference service is supported in Cloudera AI on premises 1.5.5 SP2 and higher releases.

Cloudera AI Inference service in the Technical Preview version cannot be upgraded.

Uninstall the Technical Preview version of the Cloudera AI Inference service before upgrading the Cloudera Base on premises cluster to avoid potential upgrade failures.