



Swimlane (10x) Upgrade Guides

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1. Pre-Upgrade Health Check

Node Status

- Check that all Nodes are in Ready state

```
kubectl get nodes -owide
```

- If any nodes are in NotReady, SchedulingDisabled, etc then it would be recommended to review and fix them before upgrading.

Pod Status

- Check that all pods are in Running state and the pod values are matching 1/1, 3/3, etc.

```
kubectl get pods -A
```

- If any pods are not running i.e, 0/1, 2/3, CrashLoopBackoff, Error, etc then it would be advised to review the issue and fix it prior to upgrading

Cluster Status

- Check that Kubernetes is up and running and healthy.

```
kubectl cluster-info
```

- If Kubernetes indicates that it is not healthy then review and establish where the issue is prior to upgrading.

etcd health

- etcd needs to be in a stable state prior to upgrading any issues

```
for pod in $(kubectl get pods -l component=etcd -n kube-system \
-o jsonpath='{.items[*].metadata.name}')
do
    echo "### etcd pod : ${pod} ###"
    kubectl -n kube-system exec ${pod} -- /bin/sh \
        -c "ETCDCTL_API=3 etcdctl \
        --cert=/etc/kubernetes/pki/etcd/server.crt \
        --key=/etc/kubernetes/pki/etcd/server.key \
        --cacert=/etc/kubernetes/pki/etcd/ca.crt \
        endpoint health"
done
```

- Should any other states be listed on the output then it would be advised to investigate the logs of the pod to establish the issue

Hangfire Status

- Check that Hangfire is running and there is no large amount of Enqueued Jobs
- It would be recommended to grab a screenshot of the Hangfire Dashboard prior to upgrading to check the amount processed for Deleted Jobs

Logging Status

11. Swimlane 10.22.1 Upgrade Instructions

Use these upgrade instructions to upgrade your instance of Swimlane 10.x. The instructions are divided into subsections within this document, guiding you through the upgrade process based on your specific installation type, whether it is an embedded installation or an existing cluster.

Upgrade Swimlane on Embedded Cluster Installations

Use the following instructions to upgrade this version of Swimlane on an embedded cluster installation.

Prerequisites:

- Swimlane version 10.20.3 or later

If you are not on a version that is 10.20.3 or later, contact your Swimlane support representative.

- MongoDB 7.0.17

Important! Swimlane recommends that you perform a MongoDB backup before starting this update. For more information, see [Backup and Restore on an Embedded Cluster with Snapshots](#).

If Swimlane uses an external MongoDB, scale down the cluster by setting the replicas for deployments and stateful sets (STS) to 0.

Then upgrade your external MongoDB servers to version 7.0.17 and then follow the upgrade instructions.

During the startup of the external MongoDB process, use the following commands:

```
--tlsAllowConnectionsWithoutCertificates --tlsAllowInvalidCertificates
```

```
kubectl scale deploy <deployment name> -n <name space> --replicas=0
```

```
kubectl scale sts <sts name> -n <name space> --replicas=0
```

Upgrade Instructions:

1. SSH into any node in your deployment and execute the following command to begin the Swimlane Platform Installer component upgrade:

```
$ curl -sSL https://kurl.sh/swimlane-platform-stable-10-22-1 | sudo bash -s ha
```

NOTE: If you have configured SELinux, add this to the end of the command above: `installer-spec-file=se.yaml`

2. A Kubernetes upgrade may be required depending on the current version in your environment. For a multi-node (HA) cluster, the script prompts you to drain node one (1) and apply the upgrade. Once the upgrade on node one (1) is complete, the process continues running. It then asks for confirmation to drain node two (2) as well as a command to run in that node. For example:

21. Swimlane 10.18.1 Upgrade Instructions

Use these upgrade instructions to upgrade your instance of Swimlane 10.x. The instructions are organized by subsections of this document that will help you upgrade by specific installation type, whether you have an embedded, or existing cluster installation

SPECIAL NOTE: For customers with Swimlane clusters with other than one or three nodes, please contact Support before proceeding.

Upgrade Swimlane on Embedded Cluster Installations

Use the following instructions to upgrade this version of Swimlane on an embedded cluster installation.

Prerequisites:

- Swimlane version 10.16+

If you are not on a version that is ≥ 10.16 , contact your Swimlane support representative.

- MongoDB 6.0.14

Important! Swimlane recommends that you perform a MongoDB backup before starting this update. For more information, see Backup and Restore on an Embedded Cluster with Snapshots.

If swimlane uses an external MongoDB, then scale down the cluster, that is deployments and stateful sets (sts) replicas to 0.

Then upgrade your external MongoDB servers to version 6.0.14 and then follow the upgrade instructions.

Provide the following commands when starting the external Mongo process.

```
--tlsAllowConnectionsWithoutCertificates --tlsAllowInvalidCertificates
```

```
kubectl scale deploy <deployment name> -n <name space> --replicas=0  
kubectl scale sts <sts name> -n <name space> --replicas=0
```

To upgrade from version 10.16.0 to 10.18.3, follow these steps:

1. For versions earlier than 10.16.0, disable Enterprise.
2. Upgrade to version 10.16.3.
3. Upgrade to version 10.18.3 and re-enable Enterprise and FIPS.

Upgrade Instructions:

1. SSH into any node in your deployment and execute the following command to begin the Swimlane Platform Installer component upgrade:

```
$ curl -sSL https://curl.sh/swimlane-platform-stable-10-18-1 | sudo bash -s ha
```

31. Swimlane 10.14.2 Upgrade Instructions

Use these upgrade instructions to upgrade your instance of Swimlane 10.x. The instructions are organized by subsections of this document that will help you upgrade by specific installation type, whether you have an embedded, or existing cluster installation.

Upgrade Swimlane on Embedded Cluster Installations

Use the following instructions to upgrade this version of Swimlane on an embedded cluster installation.

Prerequisites:

- Swimlane version 10.13+

If you are not on a version that is ≥ 10.13 , contact your Swimlane support representative.

- MongoDB 5.0.14

Important! Swimlane recommends that you perform a MongoDB backup prior to starting this update. For more information, see [Backup and Restore on an Embedded Cluster with Snapshots](#).

Upgrade Instructions

1. SSH into any node in your deployment and execute the following command to begin the Swimlane Platform Installer component upgrade:

```
$ curl -sSL https://kurl.sh/swimlane-platform-stable-10-14-2 | sudo bash -s ha
```

NOTE: If you have configured SELinux, add this to the end of the command above:

```
installer-spec-file=se.yaml
```

2. For a multi-node (HA) cluster, the script prompts you to drain node one (1) and apply the upgrade. Once the upgrade on node one (1) is complete, the process continues running. It then asks for confirmation to drain node two (2) as well as a command to run in that node.

See this example:

```
✓ Kubernetes host packages installed
node/ip-10-1-0-147.swimlane.io already uncordoned
Drain node ip-10-1-0-186.swimlane.io to prepare for upgrade? (Y/n) y
...
pod/swimlane-syslog-receiver-86f79c8fd6-2rvwt evicted
pod/swimlane-tasks-5dfd4d5f94-tkrb2 evicted
node/ip-10-1-0-186.swimlane.io evicted

Run the upgrade script on remote node to proceed: ip-10-1-0-186.swimlane.io

curl https://kurl.sh/swimlane-platform-stable-10-14-2/upgrade.sh | sudo
bash -s kubernetes-version=1.26.6
```

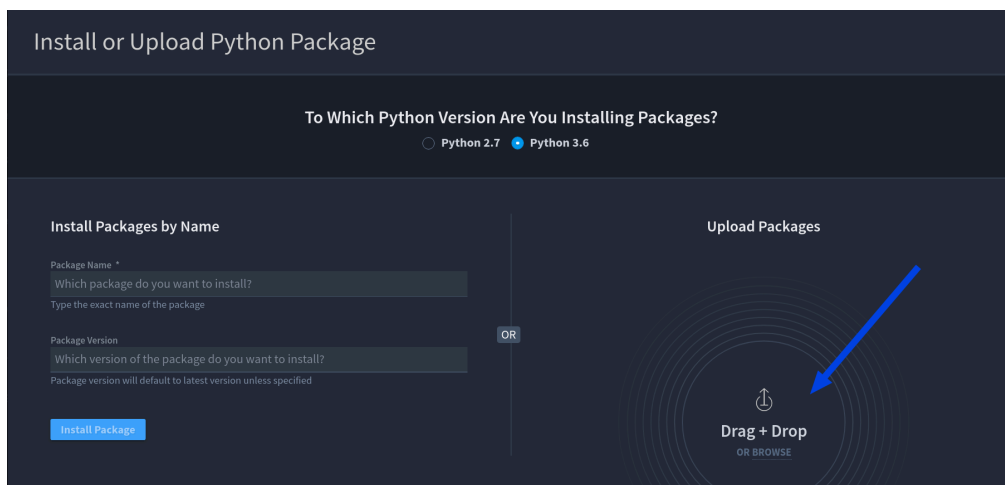
41. Update the Swimlane Python Driver Python Package

Beginning with Swimlane version 10.2.0, the Python Driver *swimlane* Python package must be manually updated after an upgrade.

To update the Swimlane Python Driver Python package:

1. Delete the old `_swimlane_` Python package.
2. Update the `_swimlane_` Python package in the Swimlane UI to the current version. To verify the current version see the Swimlane Python Driver documentation.

If this is an embedded airgapped upgrade, please download the `_swimlane_` Python wheel (.whl) package from [here](#) and update it in the Swimlane UI.



3. Restart the Swimlane API and tasks pods with this command:

```
kubectl rollout restart deployments/swimlane-api deployments/swimlane-tasks
```

42. How to Set the MongoDB "featureCompatibilityVersion" Flag Before and During the SPI 10.17.0 Upgrade

Note: This procedure is only applicable for upgrades to SPI 10.17.0.

Preventing the Issue: To prevent the issue from occurring, follow the 10.17.0 upgrade instructions as usual. However, before deploying the new 10.17.0 version in the Admin Console, complete steps 2 through 5 below.