Swimlane (10x) Upgrade Guides

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 \
```

11. Swimlane 10.20.3 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.

Known Issues

Velero Preflight Check Failing During Online Upgrades

- **Issue:**The Velero Preflight check fails for some online upgrades, potentially blocking the upgrade process.
- **Workaround:**Run the following command to verify the installed Velero version: velero version
    - If Velero Version is v1.15.2, ignore the preflight check and proceed with the deployment.
    - If Velero Version is NOT v1.15.2, rerun the following command: curl -sSL https://kurl.sh/swimlane-platform-stable-10-20-3 | sudo bash

Kubernetes Version Preflight Check Is Misleading

- **Issue:**The Kubernetes version preflight check shows a misleading message. The supported range for existing Kubernetes cluster installations of Swimlane is 1.27 - 1.30.

Upgrade Swimlane on Embedded Cluster Installations

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

Prerequisites:

- Swimlane version 10.19 or later

If you are not on a version that is >= 10.19, contact your Swimlane support representative.

- MongoDB 7.0.17

21. Swimlane 10.17.0 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=0kubectl
scale sts <sts name> -n <name space> --replicas=0
```

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

31. Swimlane 10.14.0 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 an 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.
  Upgrades from 10.13.0+ can skip to step 5.
- 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-10-14-0 | 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:

41. How to Collect Diagnostic Data for Swimlane Support

Swimlane 10.x

Support Bundle

A support bundle should be requested by a support engineer for initial triage. This bundle contains logs from all relevant pods, as well as other useful information from your deployment.

Using the Command Line (Online & Airgap)

1. Download and unarchive the latest release

   ```
   curl -L
   https://github.com/replicatedhq/troubleshoot/releases/latest/download/sup
   port-bundle_linux_amd64.tar.gz | tar xzvf -
   ```

   For airgap (offline) environments, run the above command from a host that is connected to the internet to download the plugin, then do the following:

   - Copy the downloaded file to your offline Swimlane server

     ```
     scp support-bundle_linux_amd64.tar.gz
     user@<swimlaneDNS>:/path/to/file
     ```

   - Unarchive the downloaded file from the step above as follows:

     ```
     tar -xzvf support-bundle_linux_amd64.tar.gz
     ```

2. Move the plugin to your $PATH

   ```
   sudo mv ./support-bundle /usr/local/bin/kubectl-support_bundle
   ```

   - ***NOTE***: If you choose not to put the plugin into your $PATH, then replace all instances of kubectl support-bundle in the remainder of this document with ./support-bundle or with the absolute path to the binary where it was unzipped.

3. Gather the support bundle