General information

An **Upgrade** button appears on the **Dashboard** screen whenever a new Harvester version that you can upgrade to becomes available. For more information, see Start an upgrade.

For air-gapped environments, see Prepare an air-gapped upgrade.

Known issues

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1. Upgrade stuck in the `Upgrading System Service` state

Expired certificates of certain system services may cause an upgrade to become stuck in the `Upgrading System Service` state for an extended period. To resolve this issue, perform the following steps:

1. Identify the name of the `apply-manifest` job.

   ```
   kubectl get jobs -n harvester-system -l
   harvesterhci.io/upgradeComponent=manifest
   ```

   Example output:

   ```
   NAME                                 COMPLETIONS   DURATION   AGE
   hvst-upgrade-9gmg2-apply-manifests   0/1           46s        46s
   ```

2. Check the logs of the `apply-manifest` job.

   ```
   kubectl logs jobs/hvst-upgrade-9gmg2-apply-manifests -n harvester-system
   ```

   If the following messages appear in the log, continue to the next step:

   ```
   Waiting for CAPI cluster fleet-local/local to be provisioned (current phase:
   Provisioning, current generation: 30259)...
   Waiting for CAPI cluster fleet-local/local to be provisioned (current phase:
   Provisioning, current generation: 30259)...
   Waiting for CAPI cluster fleet-local/local to be provisioned (current phase:
   Provisioning, current generation: 30259)...
   Waiting for CAPI cluster fleet-local/local to be provisioned (current phase:
   Provisioning, current generation: 30259)...
   ```

3. Check the state of the Cluster API (CAPI) cluster.

   ```
   kubectl get clusters.provisioning.cattle.io local -n fleet-local -o yaml
   ```

   If the output is similar to the following example, the issue likely exists in the cluster.

   ```
       - lastUpdateTime: "2023-01-17T16:26:48Z"
         message: 'configuring bootstrap node(s) custom-24cb32ce8387: waiting for
   probes:
           kube-controller-manager, kube-scheduler'
         reason: Waiting
   ```

```
      status: Unknown
      type: Updated
```

4. Identify the hostname of the affected node, and implement the workaround to see if service certificates expire.

   ```
   kubectl get machines.cluster.x-k8s.io -n fleet-local <machine_name> -o yaml |
   yq .status.nodeRef.name
   ```

   Replace `<machine_name>` with the name of the affected node (as stated in the output of the previous step).

   :::note

   If multiple nodes joined the cluster around the same time, you must implement the workaround on all those nodes.

   :::

- Related issue:
  - [DOC/ENHANCEMENT] need to add cert-rotate feature, otherwise upgrade may stuck on Waiting for CAPI cluster fleet-local/local to be provisioned
- Workaround:
  - https://github.com/harvester/harvester/issues/3863#issuecomment-1539681311

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2. The `harvester-seeder` add-on is not upgraded

When upgrading Harvester clusters from v1.2.1 to v1.2.2, the `harvester-seeder` add-on is not fully upgraded because the Helm chart versions do not match. The `harvester-seeder` chart bundled with Harvester v1.2.2 is of v0.1.1, while the `harvester-seeder` add-on uses the v0.1.0 chart.

```
Error: chart "harvester-seeder" matching 0.1.0 not found in harvester-seeder index.
(try 'helm repo update'): no chart version found for harvester-seeder-0.1.0
```

If you enable the add-on after upgrading to Harvester v1.2.2, installing the chart will also not be possible because of the mentioned mismatch.

The workaround is to manually update the `harvester-seeder` add-on manifest using the following command. You must disable the add-on before patching.

```
kubectl -n harvester-system patch addons.harvesterhci harvester-seeder --type=json -p
'[{"op": "replace", "path": "/spec/version", "value": "0.1.1"}]'
```
