

Nutanix software and hardware firmware update

Nutanix software updates, firmware update for drives, and firmware update for other hardware

Lenovo

Updates of Nutanix software

A customer may update a node with a later version of software including:

- NOS
- AHV
- Nutanix Cluster Check (NCC)
- ESXi but only using offline upgrade bundles (minor or major releases must be done by VMware vCenter)
- These four items of software may all be upgraded independently with the Prism Web console, refer to “Software and Firmware Upgrades” in Chapter 2 of the [Prism Web Console Guide](#).

Before updating Nutanix software, check the [Lenovo HX Series Best Recipe](#) Web site to make sure that the software version is validated or if dependencies are needed.

Firmware update for hard drives

Drive firmware cannot be upgraded with Prism and should be done with Lenovo XClarity Administrator.

Firmware update for other types of hardware

For other types of hardware, firmware upgrades of TMM/IMM/LXCC, UEFI, NICs, HBAs, and the boot RAID adapter are handled out-of-band by using the TMM, IMM, or LXCC console or by performing a virtual image load of a suitable OS and then running the firmware upgrade scripts to complete. It is recommended to upgrade firmware using Lenovo XClarity Administrator as it eases the task of monitoring and upgrading firmware.

To upgrade nodes in a rotating basis, complete the following steps:

1. Shut down the guest VMs or move them to other nodes in the cluster.
2. Stop the CVM.
3. Put the hypervisor into the maintenance mode.
4. If necessary, load a virtual image and restart the node into the operating system for the upgrade.
5. Apply the firmware update by Lenovo XClarity Administrator or the remote console firmware.
6. Restart the server if necessary.
7. Change the hypervisor out of maintenance mode.
8. Start the CVM.

Note: If XClarity is not chosen by the customer as the system management tool for the appliance, the individual method of software and firmware updates should be used for each replacement part.

Firmware update for clusters

To upgrade all of the nodes in a cluster at the same time, you can first stop the cluster, perform the upgrade, and then start the cluster. Note that the best practice is to first upgrade one node to ensure that there are no unforeseen problems before performing the upgrade on the remaining nodes.


Refer to the “Common Procedures” chapter in the [Nutanix Hardware Replacement Documentation](#) for more details on stopping and starting a node or the cluster.

Lenovo ThinkAgile HX Series Life Cycle Management

Life Cycle Management (LCM) is a new feature of the Nutanix OS that enables users to automatically or manually update the software and firmware for their ThinkAgile HX Series clusters.

LCM performs two functions: taking cluster inventories and performing updates on the cluster. Note that an LCM update is not reversible.

Work through the steps to perform these functions.

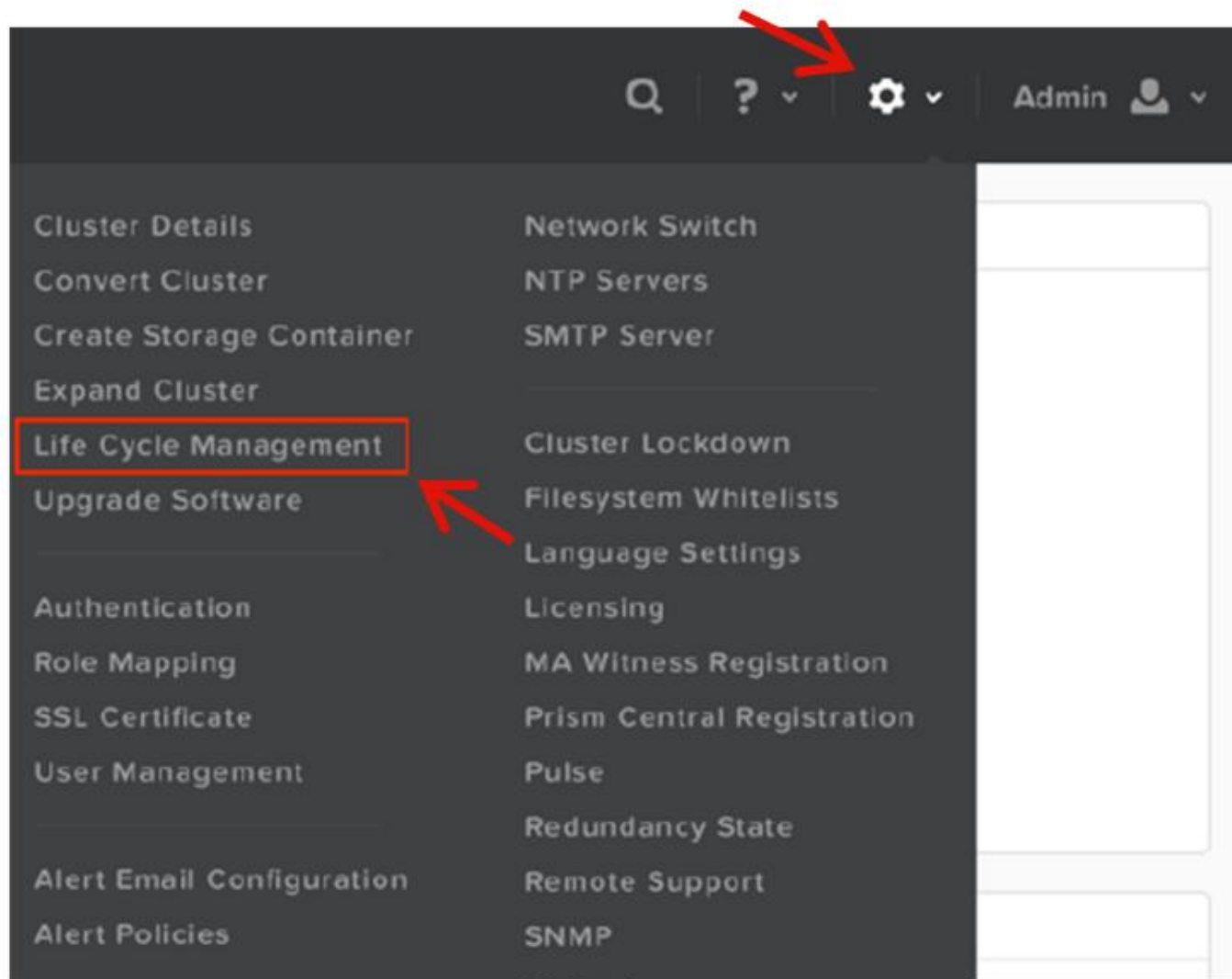
 Click each step to see the procedure.

Step **1** — **2**

Lenovo ThinkAgile HX Series Life Cycle Management

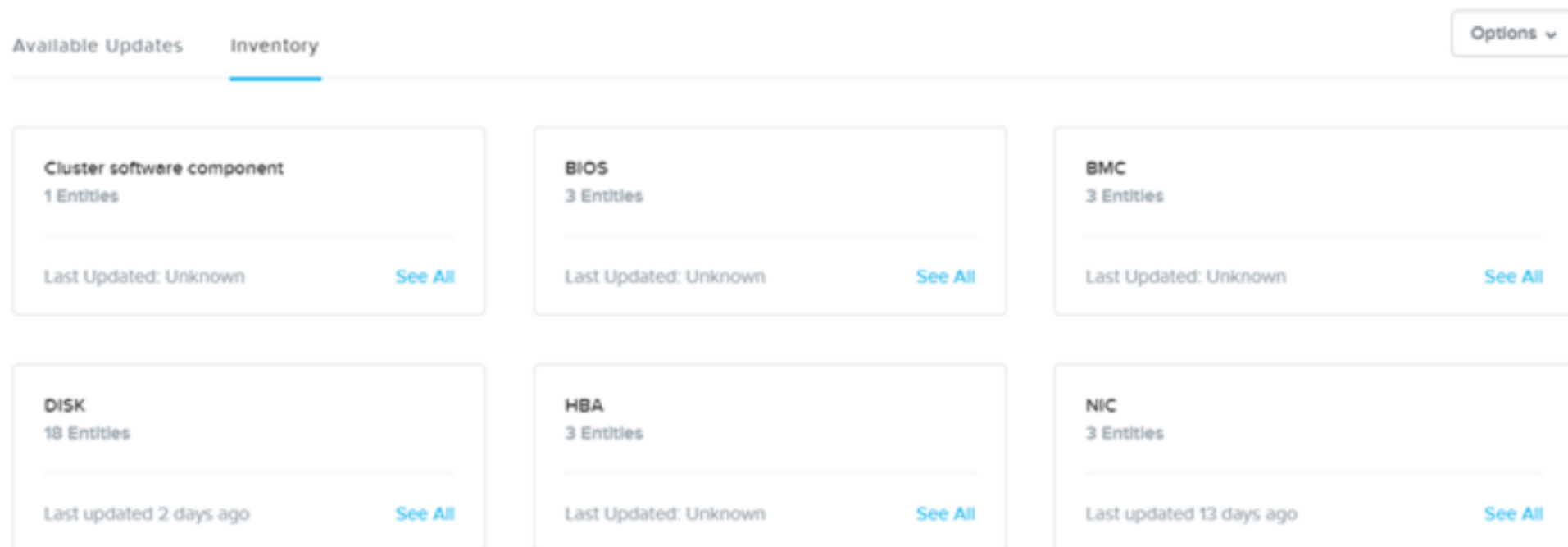
In Prism, click the gearbox button and select **Life Cycle Management** from the drop-down menu.

Step **1** — **2** 



Lenovo ThinkAgile HX Series Life Cycle Management

Prism will open the LCM page. Users can carry out an inventory or schedule software/firmware updates using the LCM. Refer to the [Life Cycle Management Web page](#) for detailed instructions.



Step

1

2

