Update a Hammerspace Cluster

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For the latest version of this document, see docs.hammerspace.com/home/downloads

HAMMERSPACE

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Applies to: Hammerspace 5.2 and later.

Hammerspace updates a running cluster in place. The update needs a high-availability deployment with floating IP addresses configured. Updating the Anvil nodes interrupts file access. While the Anvil nodes switch roles, the file system is unavailable to NFS, SMB and S3 clients alike, typically for 30 seconds to 2 minutes and sometimes longer. Updating the DSX nodes, one at a time in a cluster with more than one DSX, does not interrupt file access, because each DSX's IP addresses fail over to the other DSX nodes.

This article is a short guide. For the complete procedure, including the manual update order and Global File System environments, see Upgrading Hammerspace in the *Hammerspace Installation and Licensing Guide*.

The update package has a `.upd` suffix and is downloaded from the Hammerspace Licensing and Delivery Portal.

1. Download the Software Bundle

Sign in to the Hammerspace Licensing and Delivery Portal, open the **Downloads** menu, and click **List Downloads**.

If you are a Hammerspace customer without a portal login, contact your sales representative.

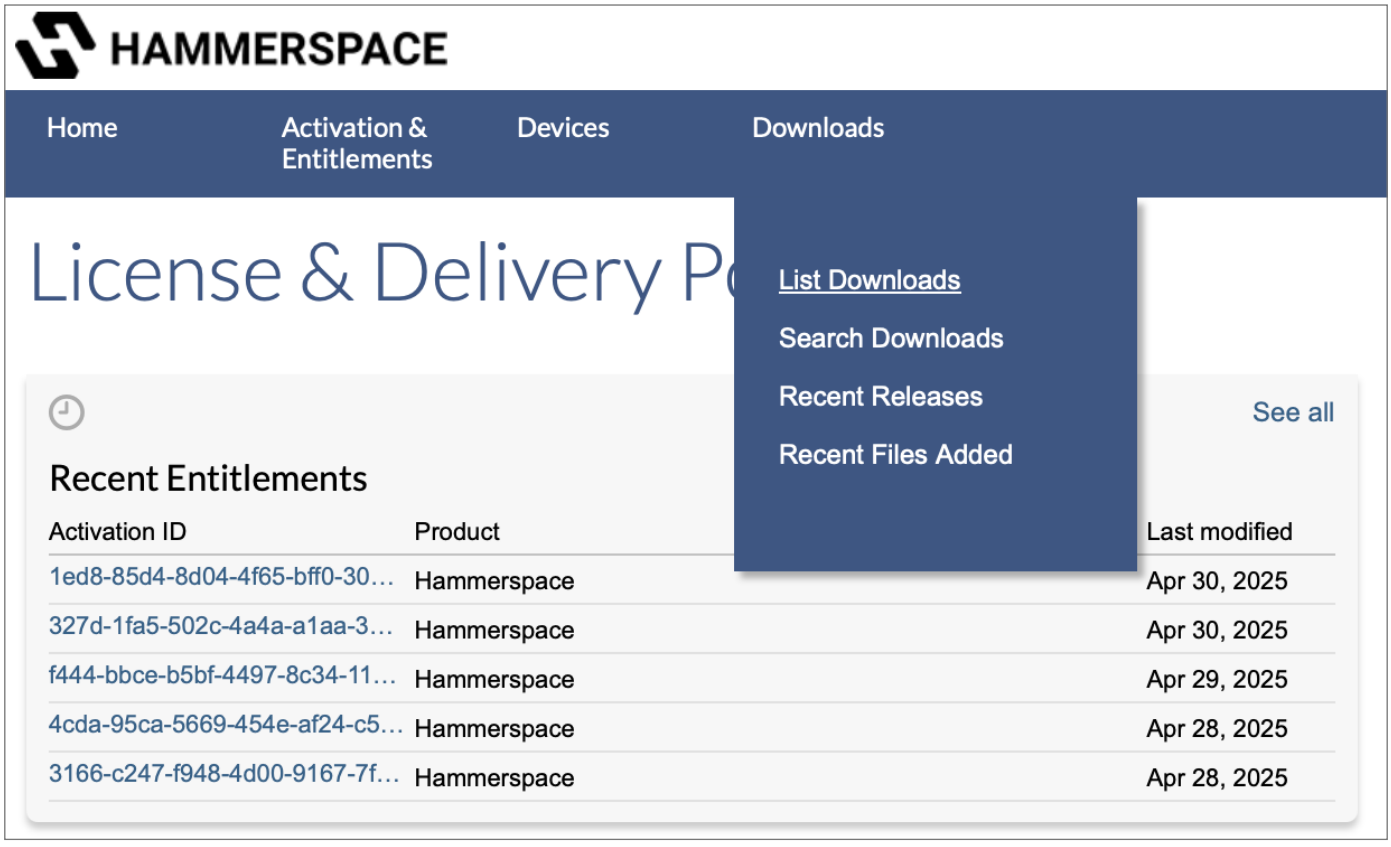


Figure 1. The Downloads menu on the licensing and delivery portal

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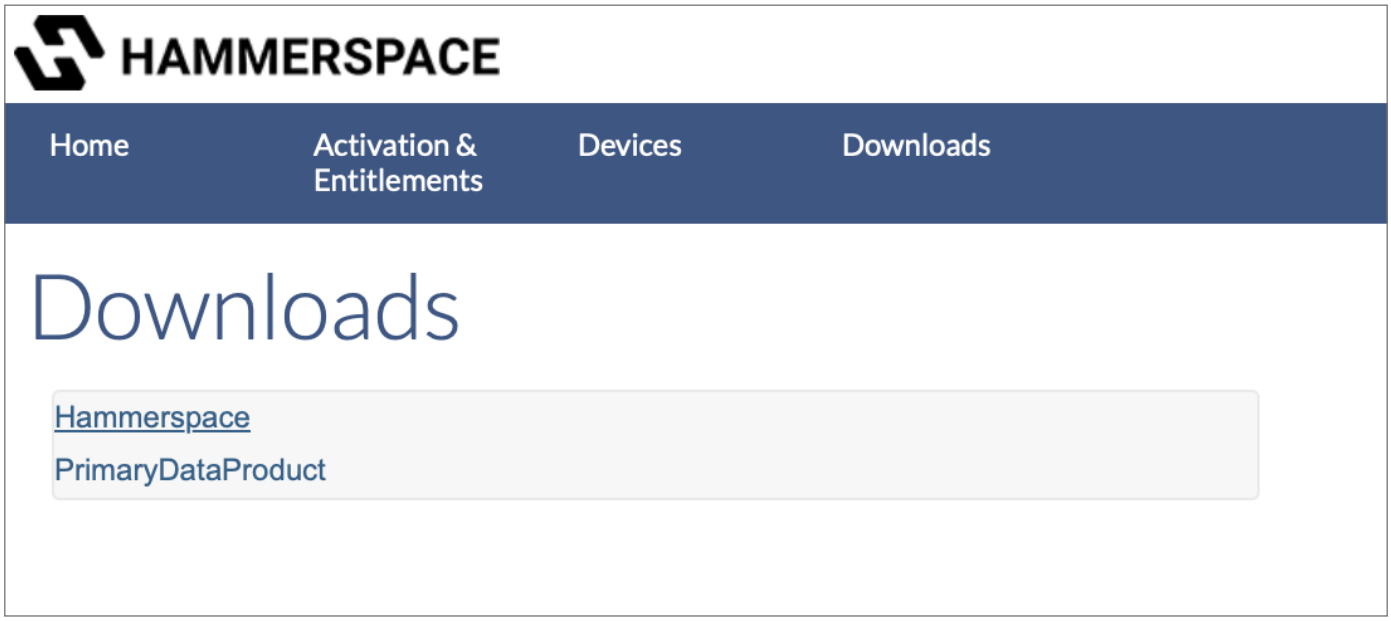


Figure 2. The Downloads list

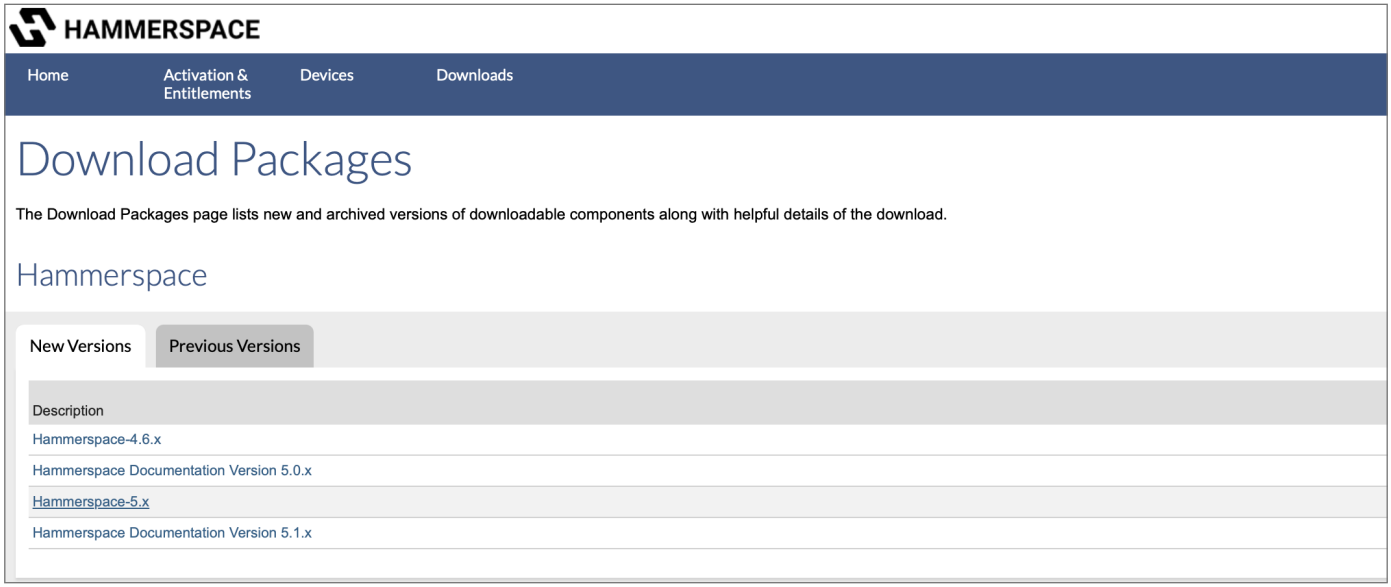


Figure 3. Choosing a Hammerspace release

Select **Hammerspace** from the list, then click the version you intend to install. Sign the software terms and conditions by clicking **I Agree**, then accept the export compliance agreement the same way.

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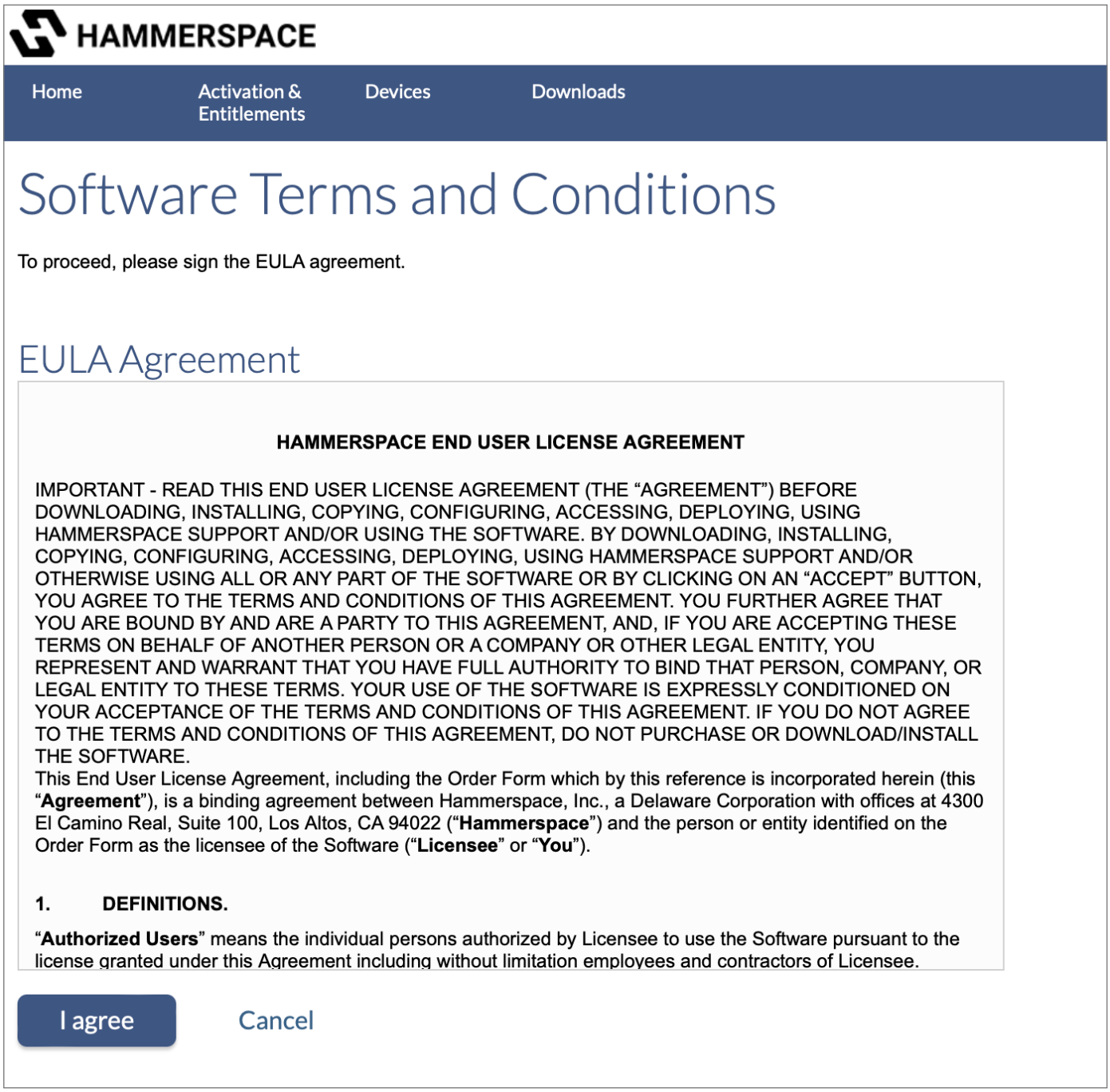


Figure 4. The software terms and conditions agreement

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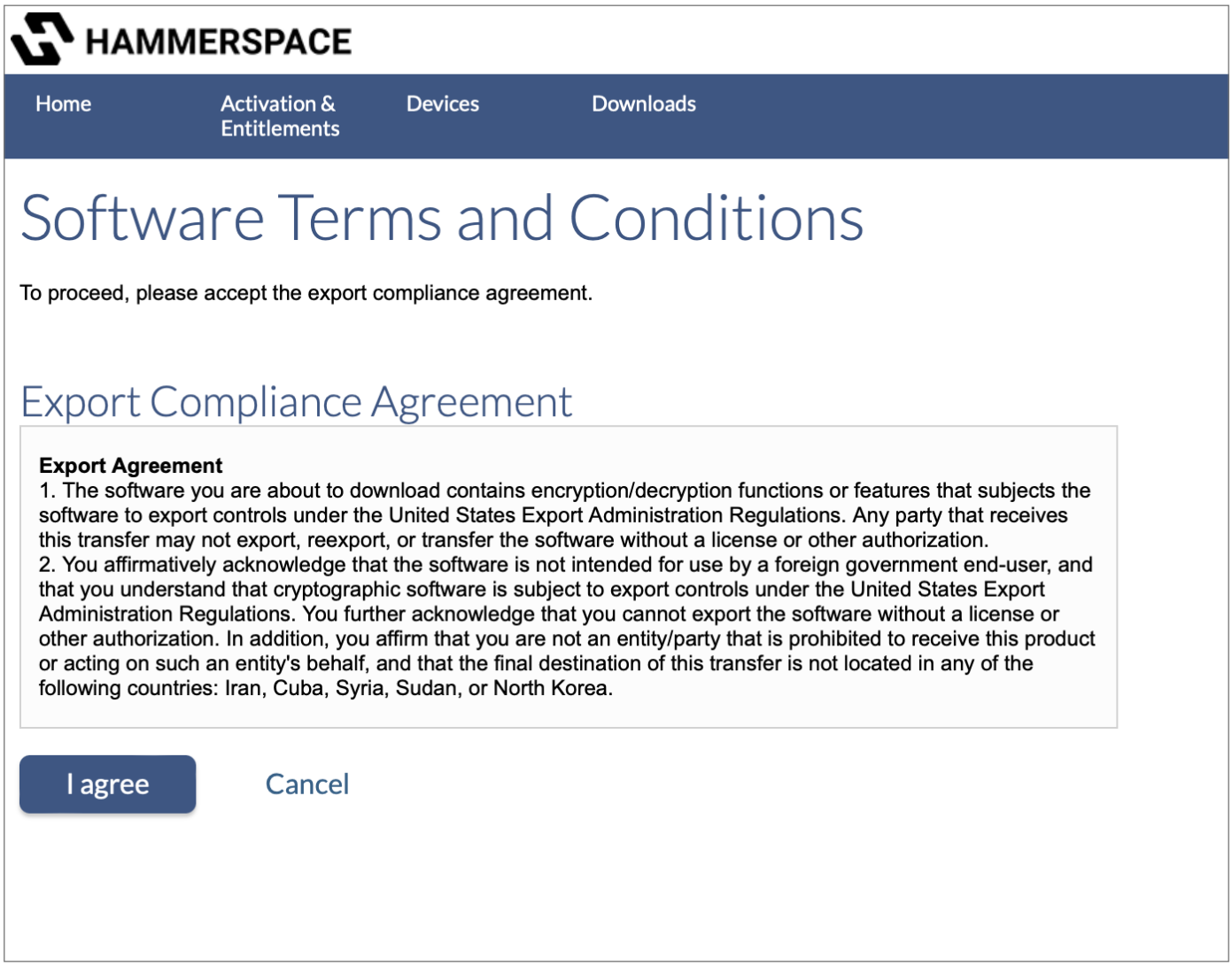


Figure 5. The export compliance agreement

The downloads page lists the most recent release. The `.upd` file is the package used for every software update; the ISO and OVA images alongside it are for installing new hardware or virtual machines. Click the plus sign to reveal the MD5 signature or SHA256 checksum, and use one of them to verify the download.

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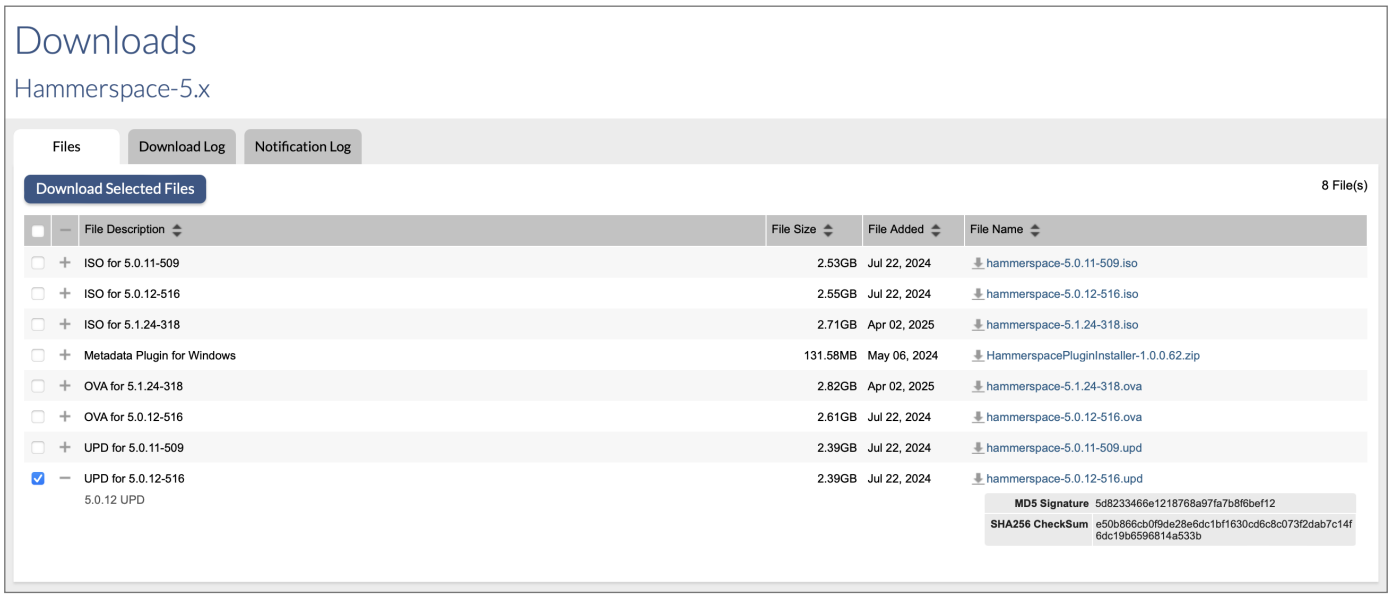


Figure 6. The release download page, with the checksum expanded

Select the checkbox for the `.upd` package and click **Download Selected Files**. You can select more than one package at a time.



The portal requires its Download Manager. If it is not installed, a window appears with a link and installation steps.

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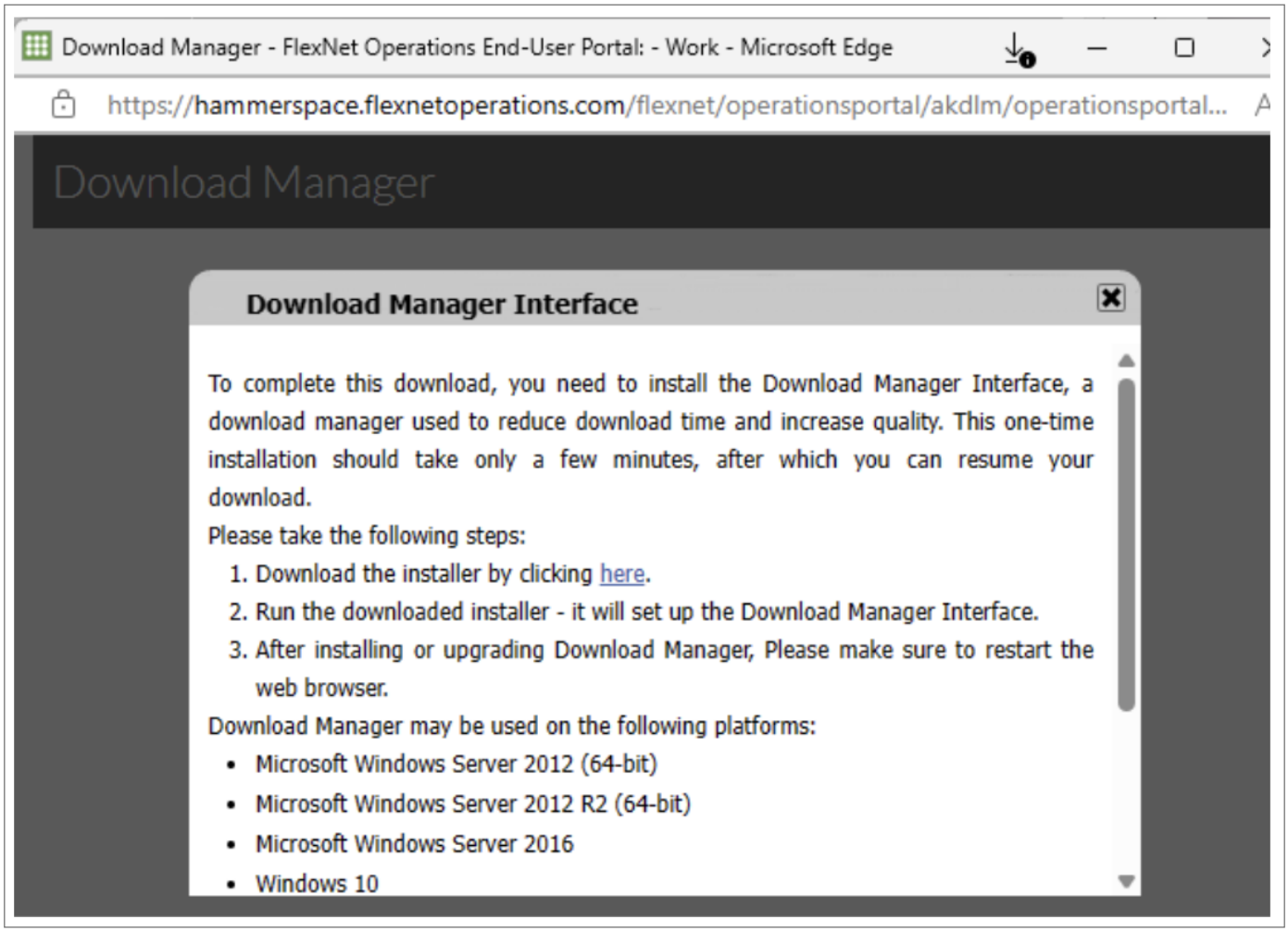


Figure 7. The Download Manager prompt

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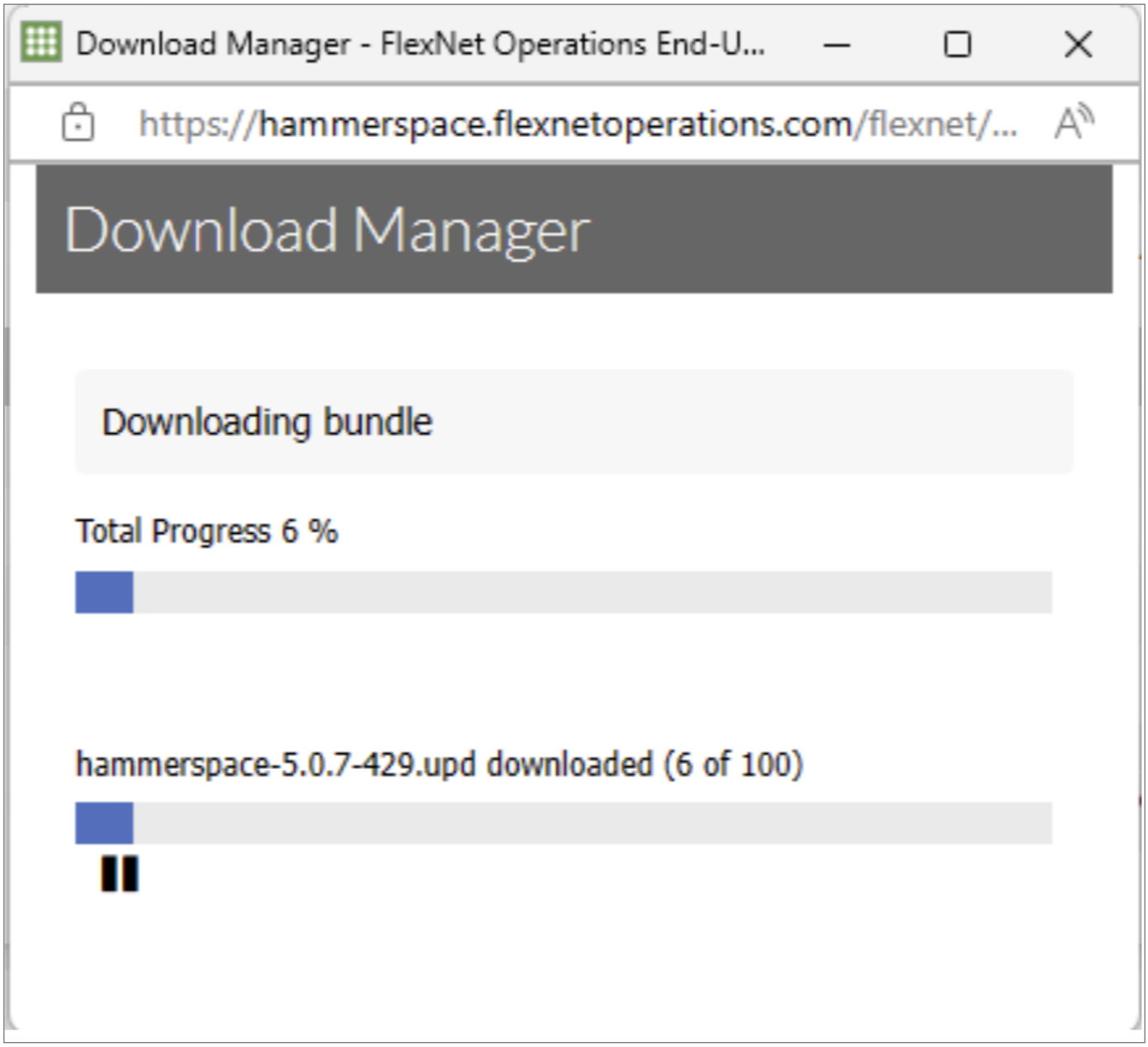


Figure 8. Download progress

Wait for the download to finish before starting the update.

2. Update from the GUI

Sign in to the cluster and go to **Administration** › **Software Update**. Click **+ Upload Software Package** and select the package you downloaded. The cluster uploads and validates it.

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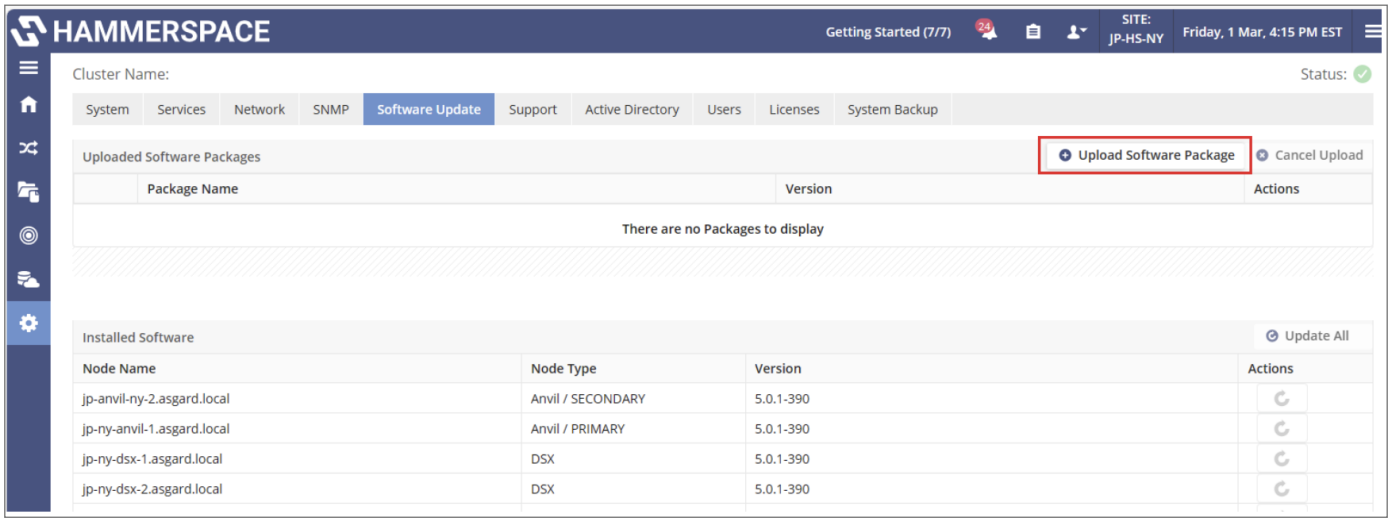


Figure 9. The Software Update page

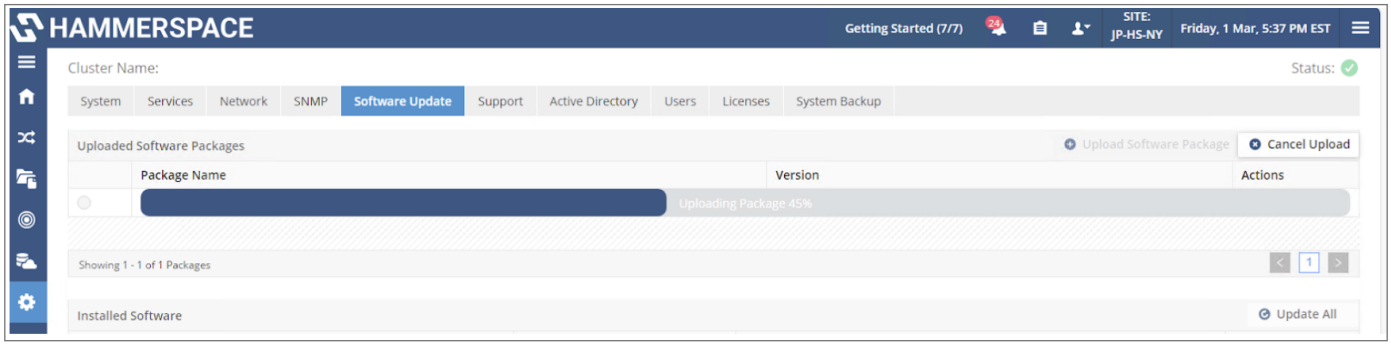


Figure 10. Uploading the package

When validation finishes, every node reports that an update is available. Click **Update All** to update the whole cluster.

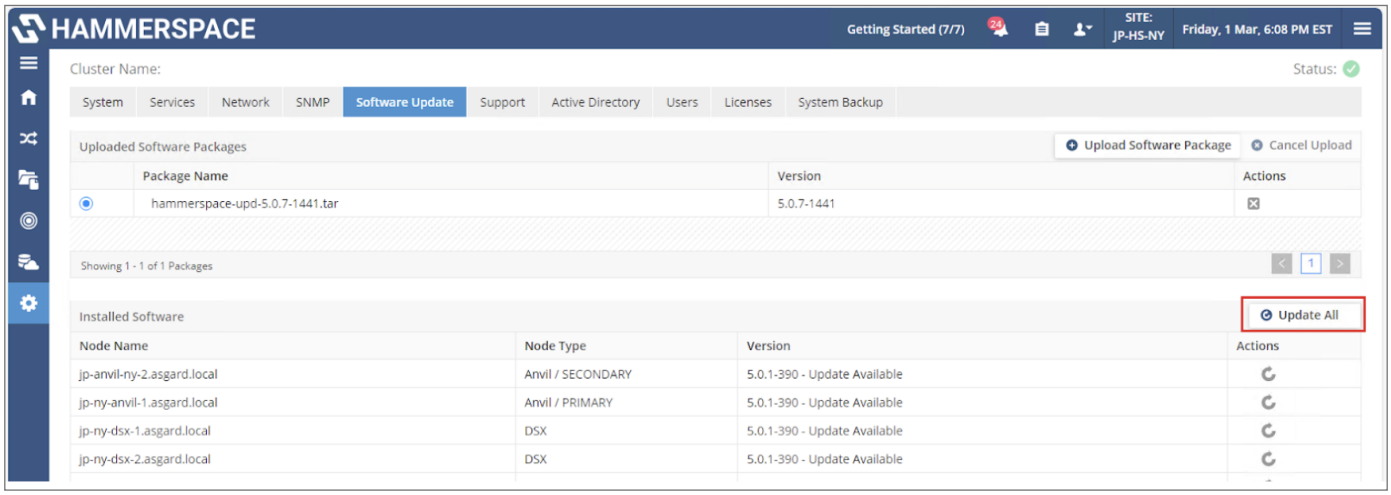


Figure 11. All nodes reporting an available update

The order is fixed: the secondary Anvil first, then the primary Anvil, and then all the DSX nodes at the same time. While the Anvil nodes switch roles, the file system is unavailable to clients, typically for 30 seconds to 2 minutes and sometimes longer. To update the DSX nodes one at a time, so that file access continues while each one updates, update the nodes manually (see Update Nodes Manually).

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If your shares use mirroring or a five-nines durability objective, do not use **Update All** while clients are connected, because it updates every DSX node at the same time. Update the nodes manually instead (see Update Nodes Manually).



When an update brings an SMB server that is not compatible with the one it replaces, as every update from 5.2 to 5.3 does, the SMB service does not start on an updated node while any node in the cluster still runs the earlier release. Nodes that are not yet updated continue to serve SMB clients. SMB starts on the updated nodes when the last node that runs the earlier release begins its update. This is expected and is not a failed update. Do not restart services to clear it.

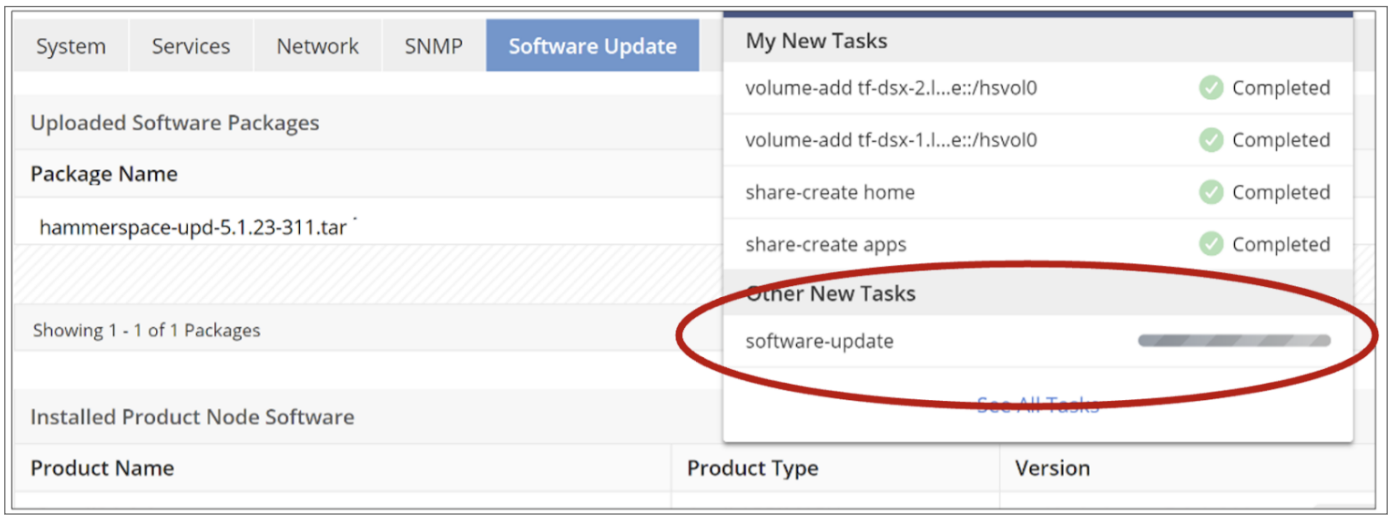


Figure 12. Update progress

Watch progress in the task window, on the Software Update page, or from the CLI:

Command:

```
software-update-status
```

The node table refreshes slowly, so give it a few minutes.



Close the management UI tab or window during the update to avoid browser cache effects. Sign back in afterwards and check the Software Update page. The management UI is unavailable for a few minutes while the Anvil nodes switch roles.

Budget roughly ten minutes per node. Bare-metal nodes take longer than virtual ones — add five to ten minutes each for the BIOS boot.



If a node fails to update, retry that node. If it fails again, contact Hammerspace Support.

3. Update from the CLI

Connect to the admin CLI:

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Command:

```
ssh admin@<server_ip_address>
```

Upload the package. You can point the cluster at a location you host yourself, including a Hammerspace share, or at a link Support provides:

Command:

```
software-upload --package-location <url-to-upd-package>
```

Apply it to every node:

Command:

```
software-apply --all
```

Then monitor it:

Command:

```
software-update-status
```



When the primary node updates, your CLI session drops and you need to reconnect. This applies to manual updates too.

3.1. Update Nodes Manually

To drive the order yourself, use `software-apply --node-name <node_name>` in this sequence:

1. The secondary Anvil.
2. The primary Anvil.
3. The DSX nodes.

After the two Anvil steps, update the DSX nodes one at a time, in any order. Each DSX node's floating IP addresses fail over to the others while it updates, so file access continues. If you use the built-in mirror capability, let shares reach full alignment before updating a DSX node.

4. Updating a Global File System

Where shares are replicated across sites, a version change stops metadata replication until every participating site has been updated. Update all sites at the same time to keep that pause short.

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