Update a Hammerspace Cluster

Published 2026-10-07

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 without scheduled downtime. Nodes are updated one at a time, and the cluster fails IP addresses over as it goes, so the update needs a high-availability deployment with floating IP addresses configured.

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.

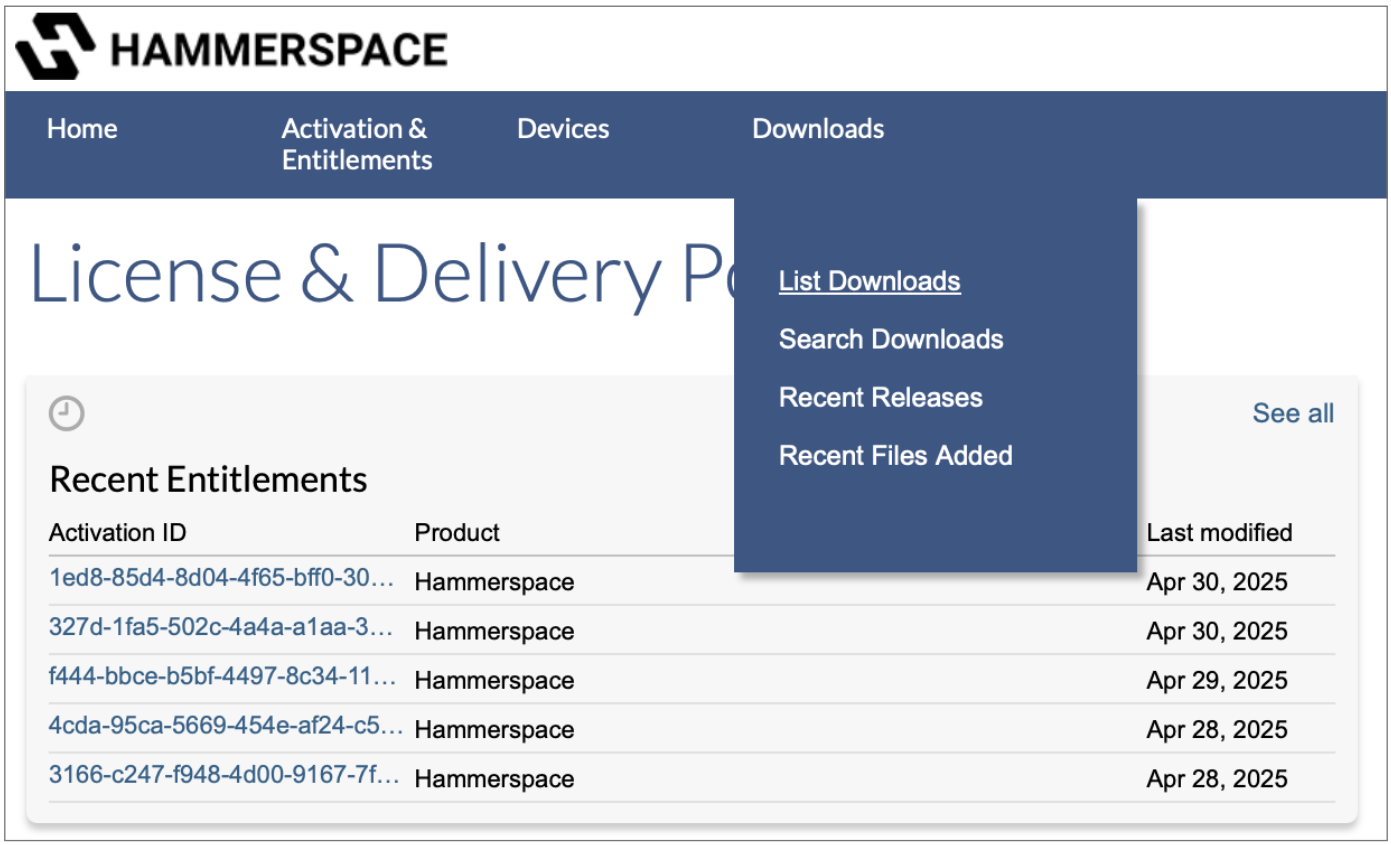

Figure 1. The Downloads menu on the licensing and delivery portal

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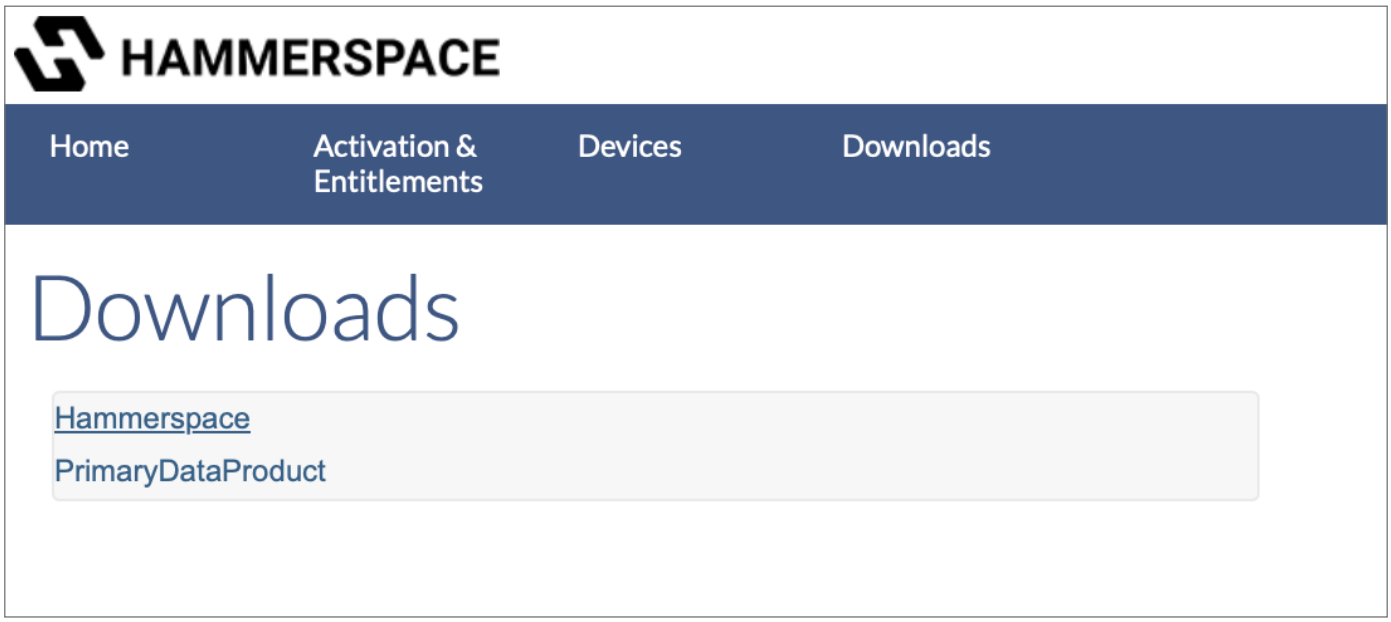

Figure 2. The Downloads list

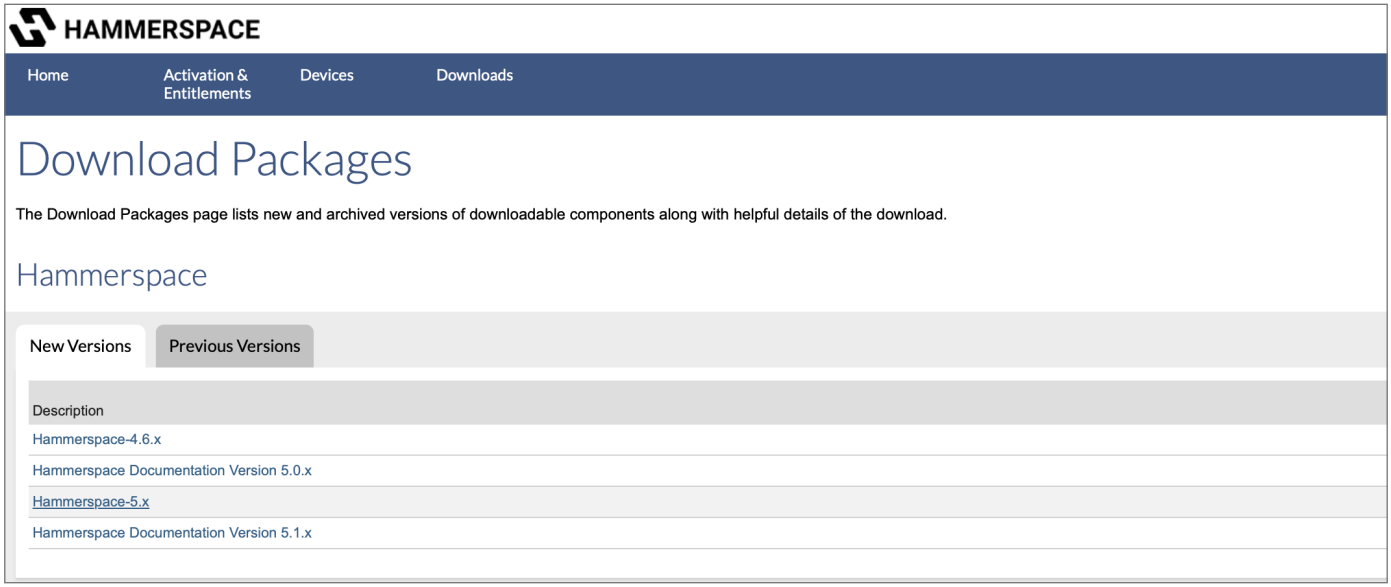

Figure 3. Choosing a Hammerspace release

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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Home | Activation & Entitlements | Devices | Downloads

Software Terms and Conditions

To proceed, please sign the EULA agreement.

EULA Agreement

HAMMERSPACE END USER LICENSE AGREEMENT

IMPORTANT - READ THIS END USER LICENSE AGREEMENT (THE “AGREEMENT”) BEFORE DOWNLOADING, INSTALLING, COPYING, CONFIGURING, ACCESSING, DEPLOYING, USING HAMMERSPACE SUPPORT AND/OR USING THE SOFTWARE. BY DOWNLOADING, INSTALLING, COPYING, CONFIGURING, ACCESSING, DEPLOYING, USING HAMMERSPACE SUPPORT AND/OR OTHERWISE USING ALL OR ANY PART OF THE SOFTWARE OR BY CLICKING ON AN “ACCEPT” BUTTON, YOU AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT. YOU FURTHER AGREE THAT YOU ARE BOUND BY AND ARE A PARTY TO THIS AGREEMENT, AND, IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON OR A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND THAT PERSON, COMPANY, OR LEGAL ENTITY TO THESE TERMS. YOUR USE OF THE SOFTWARE IS EXPRESSLY CONDITIONED ON YOUR ACCEPTANCE OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT, DO NOT PURCHASE OR DOWNLOAD/INSTALL THE SOFTWARE.
This End User License Agreement, including the Order Form which by this reference is incorporated herein (this “**Agreement**”), is a binding agreement between Hammerspace, Inc., a Delaware Corporation with offices at 4300 El Camino Real, Suite 100, Los Altos, CA 94022 (“**Hammerspace**”) and the person or entity identified on the Order Form as the licensee of the Software (“**Licensee**” or “**You**”).

1. DEFINITIONS.

“**Authorized Users**” means the individual persons authorized by Licensee to use the Software pursuant to the license granted under this Agreement including without limitation employees and contractors of Licensee.

I agree | Cancel

Figure 4. The software terms and conditions agreement

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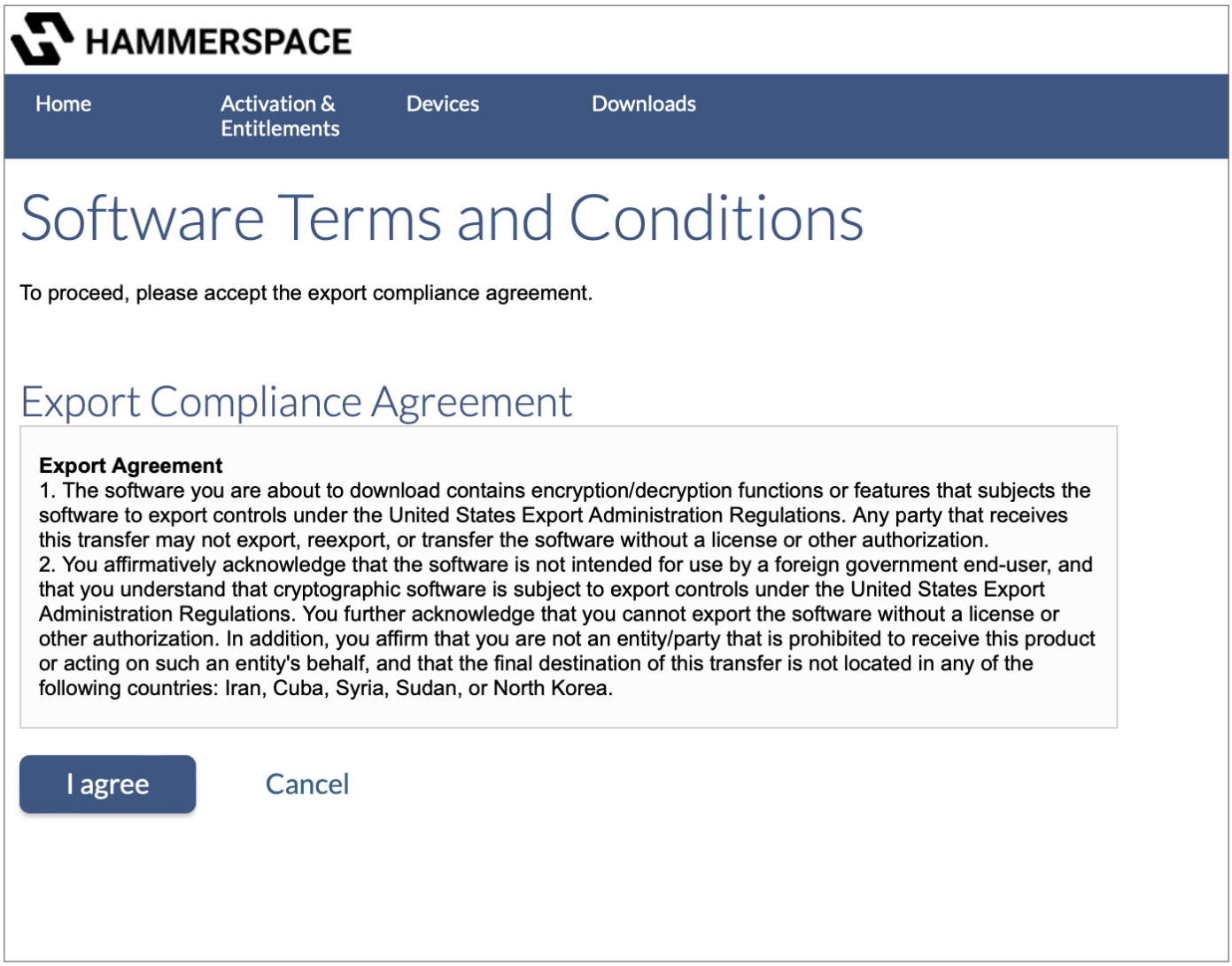

Figure 5. The export compliance agreement

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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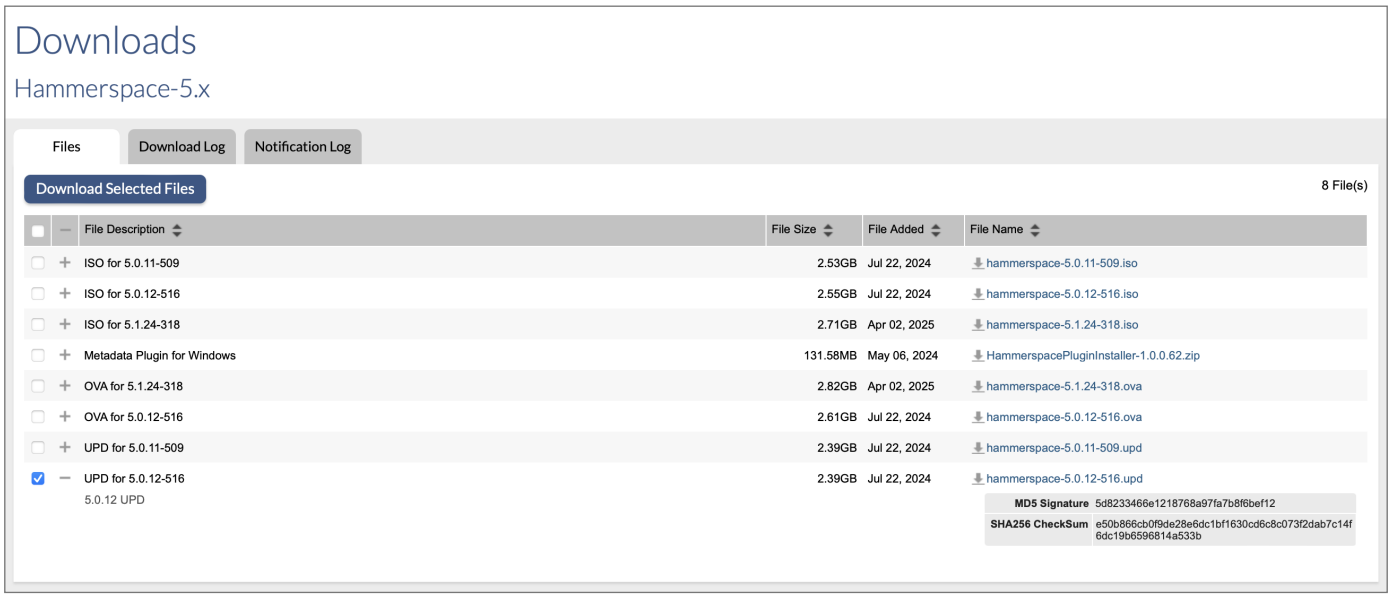

Figure 6. The release download page, with the checksum expanded

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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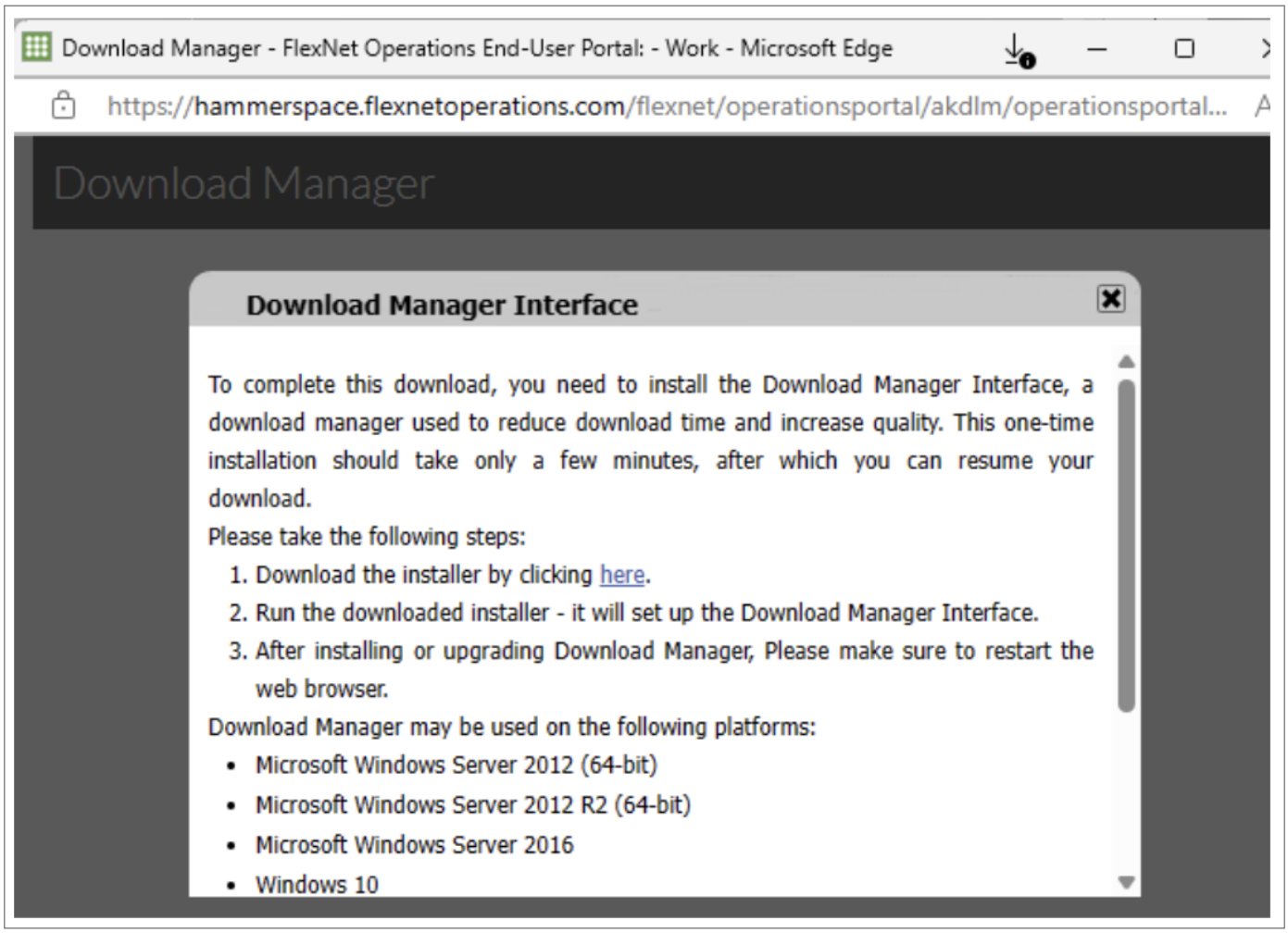

Figure 7. The Download Manager prompt

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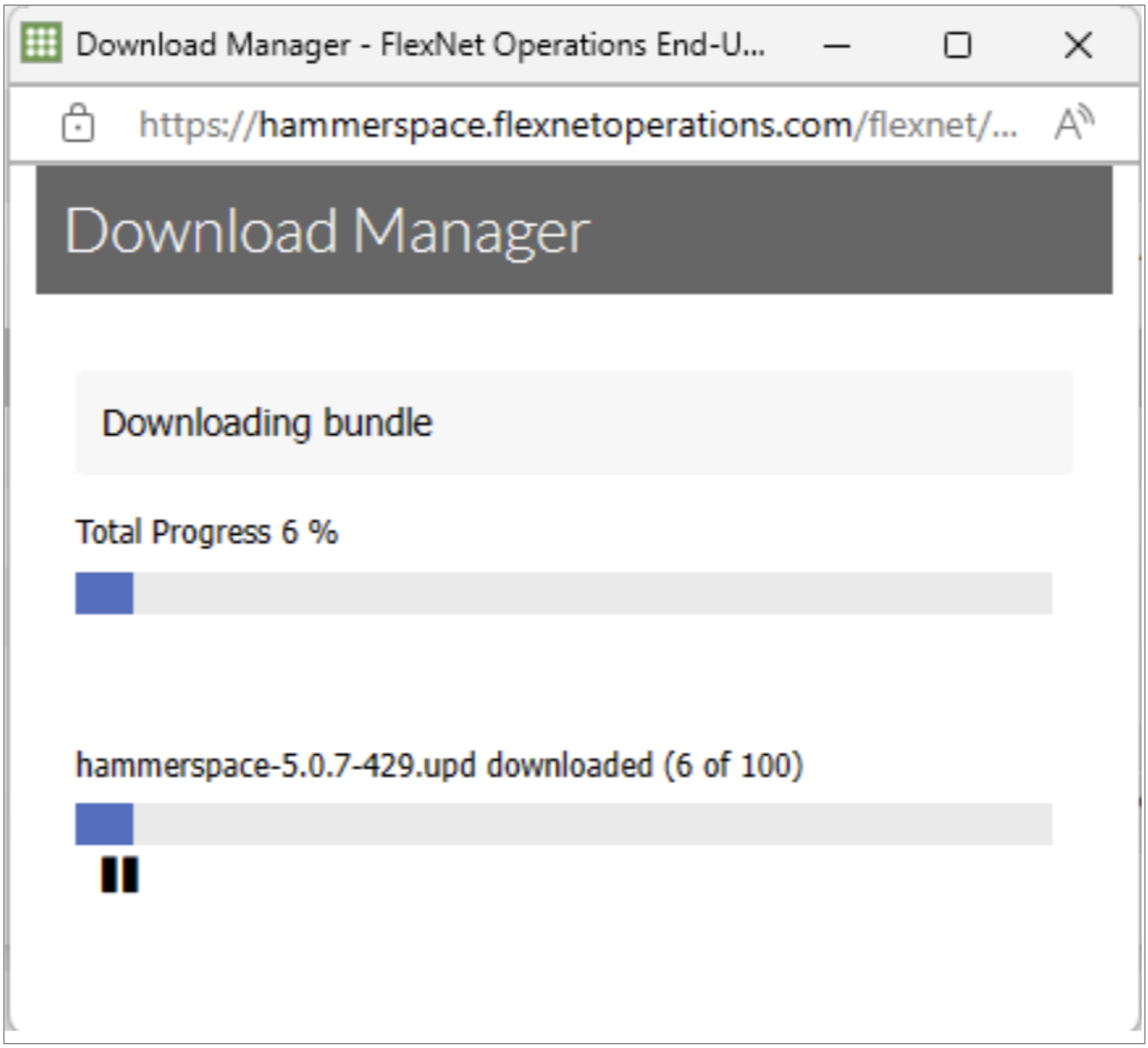

Figure 8. Download progress

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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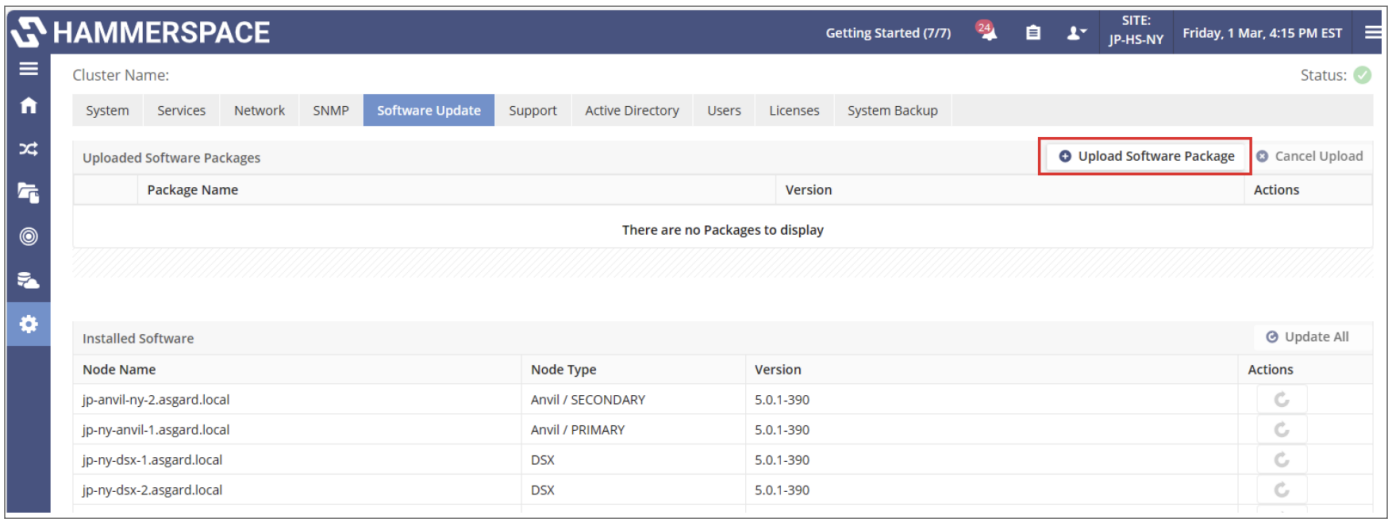

Figure 9. The Software Update page

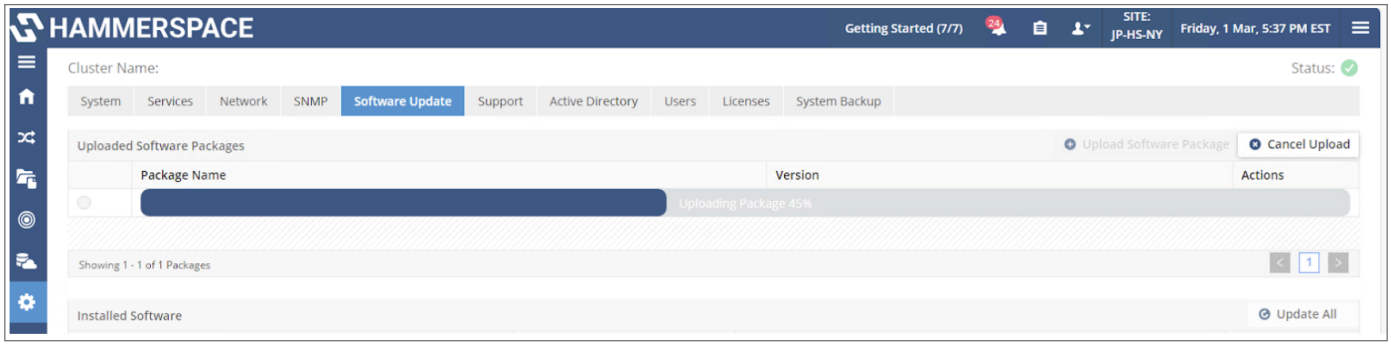

Figure 10. Uploading the package

When validation finishes, every node reports that an update is available. Click **Update All** to run a rolling update across the cluster, one node at a time.

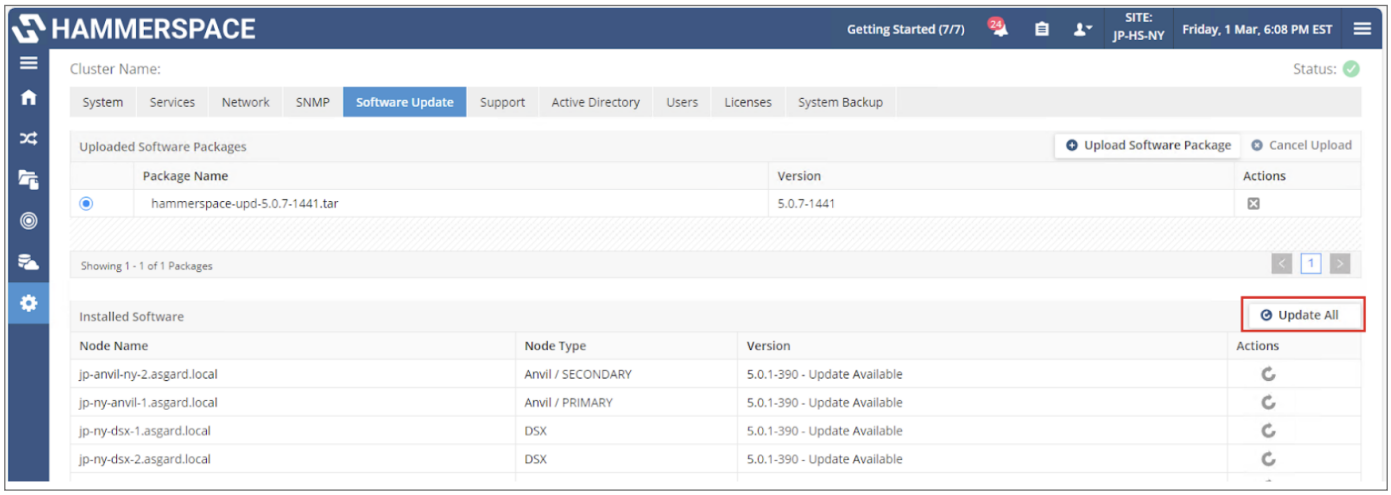

Figure 11. All nodes reporting an available update

The order is fixed: the secondary Anvil first, then the primary Anvil — at which point the cluster switches over between the two and the file system is unavailable for a few minutes — and then the DSX nodes, again one at a time.

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If your shares follow the recommended five-nines durability or three-nines availability, files stay accessible throughout the DSX phase, and portal floating IP addresses move to whichever DSX nodes are online.

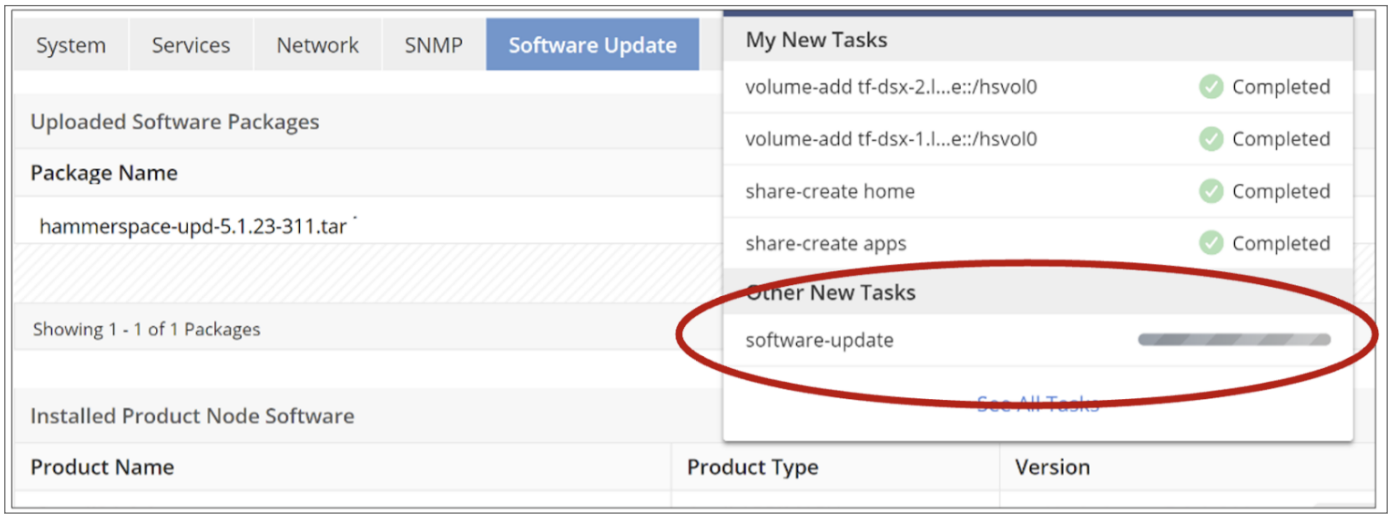

Figure 12. Update progress

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, but file operations are barely affected.

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:

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:

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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 --name <node_name>` in this sequence:

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

After the two Anvil steps, the DSX nodes can generally go in any order — floating IP addresses fail over to the others automatically. 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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