

## NVIDIA Mission Control 2.3.0 Software Download and Installation Guide for NVIDIA GB200/GB300 NVL72

### Overview

NVIDIA Mission Control 2.3.0 provides comprehensive management and monitoring capabilities. This guide provides step-by-step instructions for downloading, installation, and activation of all required NVIDIA Mission Control software components for NVIDIA GB200/GB300 NVL72 accelerated systems.

**Important Note:** All NVIDIA GB200/GB300 NVL72 deployments are highly recommended to use NVIDIA Infrastructure Services (NVIS) for their deployment of NVIDIA Mission Control. The NVIS team provides comprehensive deployment of the software with validation of both the hardware and software.

### Software Components and Versions

Component	Version	Download Method
<b>NVIDIA Base Command Manager (BCM)</b> Download from: <a href="#">Base Command Manager Download site</a>	11.32	<b>Getting Started</b> <ul style="list-style-type: none"><li>• New to NVIDIA Mission Control Entitlements? Please <a href="#">register</a>.</li><li>• Already have NVIDIA Mission Control Entitlements? Please <a href="#">Login</a>.</li></ul> <b>Questions?</b> <ul style="list-style-type: none"><li>• NVIDIA Enterprise Support contact information can be found <a href="#">here</a>.</li></ul>
DGX Base OS version Installed by NVIDIA Base Command Manager	7.4.0	
<b>NVIDIA Run:ai</b> Downloaded and Installed via NVIDIA Base Command Manager 'cm-kubernetes-setup' wizard	2.23	
<b>DGX GB200 System Software &amp; Firmware</b> Download from: <a href="#">NVIDIA Enterprise Support portal</a>	1.3.1	

<p><b>DGX GB200 System Software &amp; Firmware</b>  Download from: <a href="#">NVIDIA Enterprise Support portal</a></p>	<p>1.3.2</p>	
<p><b>DGX GB200 System Software &amp; Firmware</b>  Download from: <a href="#">NVIDIA Enterprise Support portal</a></p>	<p>1.3.6  <b>(Recommended)</b></p>	
<p><b>DGX GB300 System Software &amp; Firmware</b>  Download from: <a href="#">NVIDIA Enterprise Support portal</a></p>	<p>1.0.0</p>	
<p><b>DGX GB300 System Software &amp; Firmware</b>  Download from: <a href="#">NVIDIA Enterprise Support portal</a></p>	<p>1.0.1</p>	
<p><b>DGX GB300 System Software &amp; Firmware</b>  Download from: <a href="#">NVIDIA Enterprise Support portal</a></p>	<p>1.0.6  <b>(Recommended)</b></p>	
<p><b>Autonomous Recovery Engine Components Includes:</b></p> <ul style="list-style-type: none"> <li>● <b>autonomous job recovery</b></li> <li>● <b>autonomous hardware recovery- software</b></li> <li>● <b>Autonomous hardware recovery- Config files and Runbooks</b></li> <li>● <b>NVIDIA Resiliency Extensions (NVRx)</b></li> </ul>		
<p><b>1. autonomous job recovery</b>  <b>Software:</b>  Installed via NVIDIA Base Command Manager using the autonomous job recovery Install (cm-mission-control-setup) Wizard.</p>	<p>1.5.0</p>	

<p>Software artifacts are automatically downloaded from the <a href="#">NGC Catalog</a> by the installation wizard during installation.</p> <p>2. autonomous job recovery software artifacts (containers, helm-charts, resources) – Download</p> <ul style="list-style-type: none"> <li>● <b>OEMs/Partners:</b> Available for download on the <a href="#">NGC Catalog</a> (if needed for offline or staging purposes).</li> <li>● <b>Customers:</b> No manual download required; the wizard handles the download during installation.</li> </ul>		
<p><b>1. autonomous hardware recovery Software (29.1.79)</b></p> <p>Installed via NVIDIA Base Command Manager using the autonomous hardware recovery Install (cm-mission-control-setup) Wizard.</p> <p>Software artifacts (containers, helm-charts, and resources) are downloaded from the <a href="#">NGC Catalog</a></p>		

<p>by the installation wizard during installation.</p> <p><b>2. autonomous hardware recovery – Config Files &amp; Runbooks (2.3.26)</b></p> <ul style="list-style-type: none"> <li>● <b>OEMs/Partners:</b> Available for download on <a href="#">NGC Catalog</a> and <a href="#">NVONLINE: 1142324</a>.</li> <li>● <b>Customers:</b> Download from the <a href="#">NGC Catalog</a>.</li> </ul>		
<p>NVIDIA Resiliency Extension (NVRx)</p> <p><b>Open-source</b> and <b>directly available</b> from:  <a href="https://github.com/NVIDIA/nvidia-resiliency-ext">https://github.com/NVIDIA/nvidia-resiliency-ext</a></p>	0.4.1	
<p>Domain Power Service (DPS-<b>Beta</b>)</p> <p>Software artifacts (containers, helm-charts) are downloaded from the <a href="#">NGC Catalog</a> by the helm-chart during installation.</p>	0.7.10	
<p><b>Mission Control Grafana Visualizations</b></p> <p>Download from <a href="#">NGC Catalog</a>.</p>	27.3.2	
<p><b>Mission Control Kubernetes Security Policy Files</b></p> <p>Download from <a href="#">NGC Catalog</a>.</p>	2.0.12	

<b>Mission Control Launchpad</b> Download from <a href="#">NGC Catalog</a> .	0.2.13	
<b>Mission Control- Air-Gap Tool for DGX B200/B300 and GB200/GB300 NVL72 Systems</b>  Also available for download from <a href="#">NGC Catalog</a> .	1.6.1	
<b>NVIDIA NetQ</b>  Download from: <a href="#">NVIDIA Licensing Portal (NLP)</a>	5.1.0	

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**For deployments that are not leveraging NVIDIA Infrastructure Services (NVIS), please use the following download, installation and activation instructions for each of the included components:**

## **1. NVIDIA Base Command Manager (BCM)**

### **License Generation**

1. Obtain Product Key:
  - Use the PAK ID from your entitlement email
  - Access the [NVIDIA Licensing Portal \(NLP\)](#)
  - Navigate to "Base Command Manager" in the left navigation pane
  - Click the 3 vertical dots under the 'Actions' column for the Base Command Manager line item
  - Click "Generate key" button
  - Save the generated product key for activation

### **Software Download and Installation**

1. Download BCM Software:
  - Visit the [Base Command Manager Download site](#)
  - Provide the following information:
    - Product key (generated above)
    - Linux version

- Base Command Manager version (if not using the most current version)
2. Installation:
    - Install the software on your head node
    - Use the 'request-license' command on the head node to activate the license for your cluster
    - Detailed instructions are available in Chapter 4 of the Installation Manual
  3. Support:
    - For installation support, visit the [NVIDIA Enterprise Support Portal](#)
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## 2. NVIDIA Run:ai

### License Generation and Installation

1. Contact for Licenses:
    - You'll receive a token to access Run:ai installation artifacts. For any assistance, please contact your NVIDIA representative.
  2. Software Download:
    - Downloaded from [NGC Catalog](#) via NVIDIA Base Command Manager '*Run:ai set-up (cm-kubernetes-setup) wizard*'
  3. Installation:
    - Refer to the updated NVIDIA Base Command Manager Run:ai documentation for Base Command Manager Wizard based installation procedure
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## 3. NVIDIA Unified Fabric Manager (UFM)

### License Generation

1. Preparation:
  - Prepare a list of servers with MAC addresses for each server where UFM software will be installed
2. Generate License:
  - Log into the [NVIDIA Licensing Portal \(NLP\)](#)
  - Click on the "Network Entitlements" tab

- Review the list of serial licenses for your software products
  - Select the license you want to activate and click "Actions"
  - Enter the MAC address of the delegated license-registered host
  - If applicable, enter your High Availability (HA) server MAC address in the HA MAC Address field
  - Note: If multiple NICs are installed on the UFM Server, use any MAC address
  - Click "Generate License File"
  - Click "Download License File" and save to your local computer
3. License Regeneration:
- If you replace your NIC or UFM server, repeat the license generation process
  - Limitation: You can only regenerate a license 2 times
  - For additional regenerations, contact NVIDIA Sales Administration at [enterprisesupport@nvidia.com](mailto:enterprisesupport@nvidia.com)

## Software Download

1. Download Process:
    - Log into the [NVIDIA Licensing Portal \(NLP\)](#)
    - Click on "Software Downloads"
    - Filter the product family to "UFM"
    - Select the relevant software version
    - Click "Download"
    - Save the file to your local drive
    - Click "Close"
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## 4. NVIDIA NetQ

### License Generation

1. Preparation:
  - Prepare a list of servers with MAC addresses for each server where NetQ software will be installed
2. Generate License:
  - Log into the [NVIDIA Licensing Portal \(NLP\)](#)
  - Click on the "Network Entitlements" tab
  - Review the list of serial licenses for your software products

- Select the license you want to activate and click "Actions"
  - Enter the MAC address of the delegated license-registered host
  - If applicable, enter your High Availability (HA) server MAC address
  - Note: If multiple NICs are installed on the NetQ Server, use any MAC address
  - Click "Generate License File"
  - Click "Download License File" and save to your local computer
3. License Regeneration:
- If you replace your NIC or NetQ server, repeat the license generation process
  - Limitation: You can only regenerate a license 2 times
  - For additional regenerations, contact NVIDIA Sales Administration at [enterprisesupport@nvidia.com](mailto:enterprisesupport@nvidia.com)

## Ethernet

### License Generation:

- No license file generation required at this time

## Software Download

### Download Process:

- Log into the [NVIDIA Licensing Portal \(NLP\)](#)
  - Click on "Software Downloads"
  - Filter the product family to "NetQ"
  - Select the relevant software version
  - Click "Download"
  - Save the file to your local drive
  - Click "Close"
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## 5. Additional Components

### System Software & Firmware v1.3.1 for NVIDIA GB200 NVL72

Download Location: [NVIDIA Enterprise Support portal](#)

Includes:

- NVIDIA Mission Control GB200 NVL72\_Compute\_Firmware

- NVIDIA Mission Control GB200 NVL72\_CX7\_BF3
- NVIDIA Mission Control GB200 NVL72\_DOCA\_MFT
- NVIDIA Mission Control GB200 NVL72\_drivers\_cuda
- NVIDIA Mission Control GB200 NVL72\_NVOS
- NVIDIA Mission Control GB200 NVL72\_Powershell
- NVIDIA Mission Control GB200 NVL72\_Switch\_Firmware

### **System Software & Firmware v1.3.2 for NVIDIA GB200 NVL72**

Download Location: [NVIDIA Enterprise Support portal](#)

Includes:

- NVIDIA Mission Control GB200 NVL72\_Compute\_Firmware
- NVIDIA Mission Control GB200 NVL72\_CX7\_BF3
- NVIDIA Mission Control GB200 NVL72\_DOCA\_MFT
- NVIDIA Mission Control GB200 NVL72\_drivers\_cuda
- NVIDIA Mission Control GB200 NVL72\_NVOS
- NVIDIA Mission Control GB200 NVL72\_Powershell
- NVIDIA Mission Control GB200 NVL72\_Switch\_Firmware

### **System Software & Firmware v1.3.6 for NVIDIA GB200 NVL72 (Recommended)**

Download Location: [NVIDIA Enterprise Support portal](#)

Includes:

- GB200NVL72\_Compute\_Firmware.tgz
- GB200NVL72\_CX7\_BF3.tgz
- GB200NVL72\_DOCA\_MFT.tgz
- GB200NVL72\_drivers\_cuda.tgz
- GB200NVL72\_NVOS.tgz
- GB200NVL72\_PowerShelf.tgz
- GB200NVL72\_Switch\_Firmware.tgz

### **System Software & Firmware v1.0.0 for NVIDIA GB300 NVL72**

Download Location: [NVIDIA Enterprise Support portal](#)

Includes:

- NVIDIA Mission Control GB200 NVL72\_Compute\_Firmware
- NVIDIA Mission Control GB200 NVL72\_CX8\_BF3

- NVIDIA Mission Control GB200 NVL72\_DOCA\_MFT
- NVIDIA Mission Control GB200 NVL72\_drivers\_cuda
- NVIDIA Mission Control GB200 NVL72\_NVOS
- NVIDIA Mission Control GB200 NVL72\_Switch\_Firmware

### **System Software & Firmware v1.0.1 for NVIDIA GB300 NVL72**

Download Location: [NVIDIA Enterprise Support portal](#)

Includes:

- NVIDIA Mission Control GB200 NVL72\_Compute\_Firmware
- NVIDIA Mission Control GB200 NVL72\_CX8\_BF3
- NVIDIA Mission Control GB200 NVL72\_DOCA\_MFT
- NVIDIA Mission Control GB200 NVL72\_drivers\_cuda
- NVIDIA Mission Control GB200 NVL72\_NVOS
- NVIDIA Mission Control GB200 NVL72\_Switch\_Firmware

### **System Software & Firmware v1.0.6 for NVIDIA GB300 NVL72 (Recommended)**

Download Location: [NVIDIA Enterprise Support portal](#)

Includes:

- GB200NVL72\_Compute\_Firmware.tgz
- GB200NVL72\_CX8\_BF3.tgz
- GB200NVL72\_DOCA\_MFT.tgz
- GB200NVL72\_drivers\_cuda.tgz
- GB200NVL72\_NVOS.tgz
- GB200NVL72\_PowerShelf.tgz
- GB200NVL72\_Switch\_Firmware.tgz

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### **Mission Control Grafana Visualizations (27.3.2):**

- Download Location: [NGC Catalog](#)

### **Mission Control Kubernetes Security Policy Files (2.0.11):**

- Download Location: [NGC Catalog](#)

## Mission Control- Autonomous Recovery Engine Software Stack:

- autonomous job recovery - 1.5.0
- autonomous hardware recovery - 29.1.79
- autonomous hardware recovery-Config files and Runbooks-2.3.26
- NVIDIA Resiliency Extension (NVRx) - 0.4.1

**Note:** NVIDIA Resiliency Extensions (NVRx) is not bundled with Mission Control. It must be installed separately. Please follow the installation instructions at: <https://nvidia.github.io/nvidia-resiliency-ext/>

- Download Location: [NGC Catalog](#)

## Mission Control- Launchpad (0.2.13):

Download from [NGC Catalog](#).

## NVIDIA Domain Power Service (DPS-0.7.10)- *Early Preview*:

- Download Location: [NGC Catalog](#)

## Mission Control- Air-Gap Tool for DGX B200/B300 and GB200/GB300 NVL72 Systems-1.6.1

- Download Location: [NGC Catalog](#)

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## Support Contacts

- **General Enterprise Support:** [NVIDIA Enterprise Support Portal](#)
- **Sales Administration:** enterprisesupport@nvidia.com
- **NVIDIA Infrastructure Services (NVIS):** Recommended for NVIDIA GB200/GB300 NVL72 deployments

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## Quick Reference Links

- [NVIDIA Licensing Portal \(NLP\)](#)
- [Base Command Manager Download Site](#)
- [NVIDIA Enterprise Support Portal](#)
- [NVONLINE Applications](#)

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This guide covers NVIDIA Mission Control 2.3.0 and associated software

components for GB200/GB300 NVL72 Systems. For the most up-to-date information and additional support, please refer to the official NVIDIA documentation and support channels.