# NVIDIA License Server Installation – Driver Installation on Host & Guest

As part of Citrix POC, we have used one VM for NVIDIA License server installation, Need a license from NVIDIA before install of NVIDIA License server in a VM

How to get a Trail License from NVIDIA

# **Prerequisites & Installation procedures**

Software's Links

Host Driver (Should download from Nutanix Support)

Nutanix Support & Insights

vGPU Drivers (Should Download from NVIDIA Website)

NVIDIA Enterprise

NLP - Dashboard (nvidia.com)

**NVIDIA License Server** 

https://nvid.nvidia.com/dashboard

NLP - Software Downloads (nvidia.com)

## **GPU profiles tool**

Releases · JeremyMain/GPUProfiler · GitHub

Remote display analyzer tool

RDAnalyzer Pro edition – Remote Display Analyzer

**Host Drivers Version** 

#### **Compatibility Matrix:**

| AOS Version *  | AHV Version    | NVIDIA Host Driver Version   | Notes                                |
|----------------|----------------|------------------------------|--------------------------------------|
| AOS 6.1        | 20201105.30142 | 13.0                         | Download driver below                |
| AOS 5.20.3 LTS | 20201105.2244  | 11.5, 12.3 (EOL), 13.0       | Download driver below                |
| AOS 6.0        | 20201105.2076  | 12.2 (EOL), 12.0 (EOL), 11.4 | Download driver below                |
| AOS 5.20.2 LTS | 20201105.2229  | 11.5, 12.3 (EOL), 13.0       | Download driver below                |
| AOS 5.20.1 LTS | 20201105.2096  | 12.2 (EOL), 12.0 (EOL), 11.4 | Download driver below                |
| AOS 5.20 LTS   | 20201105.2030  | 12.0 (EOL), 11.4             | Download driver below                |
| AOS 5.19       | 20201105.12    | 11.1, 11.3, 11.4             | Download driver below                |
| AOS 5.18.1     | 20190916.294   | 11.1, 11.3, 11.4             | vGPU live migration introduced       |
| AOS 5.18       | 20190916.253   | 10.1 (EOL)                   |                                      |
| AOS 5.17.1     | 20190916.231   | 10.1 (EOL), 10.3 (EOL)       |                                      |
| AOS 5.15.4 LTS | 20190916.321   | 11.1, 11.3, 11.4             | Download driver below                |
| AOS 5.15.3 LTS | 20170830.453   | 10.1 (EOL), 10.3 (EOL)       | vGPU stats Issue resolved            |
| AOS 5.15.2 LTS | 20170830.395   | 9.1 (EOL)                    | Missing vGPU stats >= GRID 9.2. Link |
| AOS 5.10 LTS   | 20170830.184   | 8.4, 9.1 (EOL)               | Missing vGPU stats >= GRID 9.2. Link |

Nutanix Support & Insights

vGPU version

# NVIDIA vGPU Software 11 Releases

Branch status: Long-Term Support Branch supported until July 2023

| vGPU Software | vGPU Manager | Linux Driver | Windows Driver | Release Date |
|---------------|--------------|--------------|----------------|--------------|
| 11.7          | 450.172      | 450.172.01   | 453.37         | January 2022 |
| 11.6          | 450.156      | 450.156.00   | 453.23         | October 2021 |
| 11.5          | 450.142      | 450.142.00   | 453.10         | July 2021    |
| 11.4          | 450.124      | 450.119.03   | 452.96         | April 2021   |

NVIDIA Virtual GPU (vGPU) Software Documentation

## vGPU driver can download from Nutanix or NVIDIA

NVIDIA vGPU guest OS drivers for product versions 11.0 or later can be acquired via NVIDIA Licensing Software Downloads under:

'All Available' / Product Family = vGPU / Platform = **Linux KVM** / Platform Version = All Supported / Product Version = (match host driver version)

AHV-compatible host and guest drivers for older AOS versions can be found on the NVIDIA Licensing Software Downloads <u>site</u> under 'Platform = Nutanix AHV'.

## Best from Nutanix portal

NVIDIA GRID for AOS 5.15.4 (Version: 11.4 ) Release Date: May 06, 2021 Show Less ^ Filename: rividia-vgpu-450.124-2.20190916.114.el7x86\_64.rpm Size: 11.92 MB Md5: 0547d660fee5cdftb53a8e6f1589e91e Release Notes: Install Guide and Release Notes

## Nutanix Support & Insights

From NVIDIA portal download vGPU driver

NLP - Software Downloads (nvidia.com)

| Y PRODUCT FAMILY: VGPU  |  |   |   |                            |
|---|--|---|---|----------------------------|
|   |  |   |   | updated 🍥 2:12:57 PM 🏾 🏠 🔅 |
| platform $ar{\mathbf{Y}}$ $\Diamond$                                | PLATFORM VERSION $\bigtriangledown$ $\diamondsuit$                                     |   | description $\bigtriangledown$ $\diamondsuit$ | RELEASE<br>DATE            |
| Linux KVM   | All Supported  | 11.1  | NVIDIA vGPU for Linux KVM ALL                 | Sep 30, 2020 Download      |
| Linux KVM   | All Supported  | 11.2  | NVIDIA vGPU for Linux KVM ALL                 | Nov 5, 2020 Download       |
| Linux KVM   | All Supported  | 11.3  | NVIDIA vGPU for Linux KVM ALL                 | Jan 7, 2021 Download       |
| Linux KVM   | All Supported  | 11.4  | NVIDIA vGPU for Linux KVM ALL                 | Apr 23, 2021 Download      |
| For information about the software<br>NMDIA vGPU documentation is a | are lifecycle for NVIDIA virtual GPU S<br>wailable at: <u>https://docs.nvidia.com/</u> | oftware visit: <u>https://docs.rvidia.com</u><br>g <u>erid/</u> | Vigid/news/index.html                         |                            |

🕹 Download

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# **NVIDIA Host Driver Prerequisites**

- Power off al VM's on all Hosts
- Download the software's from NVIDIA link

Use one of the following methods to identify the GPU card in use

root@ahv# lspci | grep -i nvidia

#### OR

From Prism Element or Prism Central

Select the Hardware dashboard and click Table view selector to view the hardware information in a tabular form. From the list, select a host with GPU installed on it. This displays the Host details with the GPU model listed in it.

## **Implementation Steps:**

NVIDIA GRID Virtual GPU Manager for AHV can be installed and upgraded from any Controller VM using the **install\_host\_package** script. The script, when run on a Controller VM, installs the driver on all the hosts in the cluster.

- 1. To make the driver available to the script, do one of the following:
  - Copy the RPM package to <u>any</u> Controller VM in the cluster on which you want to install the driver.
  - You can copy the RPM package to the /home/nutanix directory.
- 2. Log on to any Controller VM in the cluster with SSH as the nutanix user.(Nutanix/Nutanix/4u)
- 3. Install Drivers
  - a. nutanix@cvm\$ install\_host\_package -r rpm

*Note:* Replace *rpm* with the path to the driver on the Controller VM

## **Verification**

nutanix@cvm\$ hostssh "rpm -qa | grep -i nvidia"

or

with NCC Check detects if the NVIDIA driver is missing on any GPU node

ncc health\_checks hypervisor\_checks gpu\_driver\_installed\_check

OR

This inspects the output for a table of output containing, amongst other things, the driver version and detected GPU resources.

nutanix@cvm\$ hostssh nvidia-smi

## Reference:

<u>Third-Party Integrations ANY - Installing and Upgrading NVIDIA GRID Virtual GPU Manager (Host</u> <u>Driver) (nutanix.com)</u> Note: Contact Nutanix Support if you want to uninstall the NVIDIA host driver.

## **NVIDIA GRID vGPU Driver Installation on VM's**

#### Prerequisites

- Make sure that NVIDIA GRID Virtual GPU Manager (the host driver) and the NVIDIA GRID guest operating system driver are at the same version.
- The GPUs must run in graphics mode. If any GPUs are running in compute mode, switch the mode to graphics before you begin.
- If you are using NVIDIA vGPU drivers on a guest VM and you modify the vGPU profile assigned to the VM (in the Prism web console), you might need to reinstall the NVIDIA guest drivers on the guest VM.

#### Implementation



- Install NVIDIA guest driver into guest VMs.
- (Ensure the guest driver version/build matches with the host driver version/build
- https://docs.nvidia.com/grid/)
- Install NVIDIA license server and allocate licenses.
- Install NVIDIA license server and allocate licenses.
- Download the NVIDIA vGPU software license server from NVIDIA dashboard.

Ref:

NVIDIA GRID vGPU Driver Installation and Configuration Workflow <u>Third-Party Integrations ANY - NVIDIA GRID vGPU Driver Installation and Configuration Workflow</u> (nutanix.com)

#### Nutanix Upgrade

FOR Prism Element without LCM, below is the order for one click upgrade is b

Foundation AOS AHV

Latest Nutanix AOS 5.15 LTS Released – HyperHCI.com

#### References

NVIDIA GRID Virtual GPU Support on AHV

## AHV 6.1 - NVIDIA GRID Virtual GPU Support on AHV (nutanix.com)

Getting your NVIDIA® Virtual GPU Software Version Getting your NVIDIA Virtual GPU Software Version

# **POC Implementation screenshots**

**NVIDIA License Server Installation on a VM** 

- Install JRE & JDK
- And set JAVA\_HOME environment variable to JRE Path



Environment Variables

| Variable  | Value   |
|---|---|
| Path  | %USERPROFILE%\AppData\Local\Microsoft\WindowsApps;  |
| TEMP  | %USERPROFILE%\AppData\Local\Temp  |
| TMP   | %USERPROFILE%\AppData\Local\Temp  |
|   | New Edit Delete   |
| Variable  | Value   |
| ComSpec   | Ci\Windows\system22\cmd.eve   |
|   | C:\Program Files\Java\ire1.8.0 321  |
|   |   |
| NUMBER OF PROCESSORS  | 4   |
| NUMBER_OF_PROCESSORS  | 4<br>Windows_NT   |
| NUMBER_OF_PROCESSORS<br>OS<br>Path                                      | 4<br>Windows_NT<br>C:\Program Files\Common Files\Oracle\Java\javapath;C:\Program  |
| NUMBER_OF_PROCESSORS<br>OS<br>Path<br>PATHEXT                           | 4<br>Windows_NT<br>C:\Program Files\Common Files\Oracle\Java\javapath;C:\Program<br>.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC                             |
| NUMBER_OF_PROCESSORS<br>OS<br>Path<br>PATHEXT<br>PROCESSOR ARCHITECTURE | 4<br>Windows_NT<br>C:\Program Files\Common Files\Oracle\Java\javapath;C:\Program<br>.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC<br>AMD64                    |
| NUMBER_OF_PROCESSORS<br>OS<br>Path<br>PATHEXT<br>PROCESSOR ARCHITECTURE | 4<br>Windows_NT<br>C:\Program Files\Common Files\Oracle\Java\javapath;C:\Program<br>.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC<br>AMD64<br>New Edit Delete |









|   | IDIA.   |  |
|---|---|--|
|   | License Management  |  |
| Licensed Clients           > Executions           > Executions           > Licensed Feature Usage           > Licensed Management           > Configuration           > Login | Successfully applied license file to license server.  Browse for the license file you received from the NVIDIA licensing portal, and then click Upload to process the license file.      Upload license file (.bun file): Browse Browse |  |
| License Server Monager<br>> About<br>> Settings   |   |  |
|   |   |  |
|   |   |  |



From Client point(VDI) point to License Server

| Set: ************************************ | NVIDIA Control Panel<br>File Edit Desktop Help |  | × |
|---|--|--|---|
|   | Setter Task                                    | Wanage License         You can enable additional features by applying a license.         License Edition:         Image License Editor:         Image License Editor:         Image License Enver:         Image License Enver:         Image License Enver:         Port Number:         Image License Enver:         Port Number:         Port Number:         Image License Enver:         Port Number:         Port Number:         Image License Enver:         Port Number:         Port number on which the primary license server listens for license requests. Default is 7070. |   |

#### **NVIDIA Drives installation on Hypervisor Host**

### **Implementation Steps:**

NVIDIA GRID Virtual GPU Manager for AHV can be installed and upgraded from any Controller VM using the **install\_host\_package** script. The script, when run on a Controller VM, installs the driver on all the hosts in the cluster.

- 4. To make the driver available to the script, do one of the following:
  - Copy the RPM package to <u>any</u> Controller VM in the cluster on which you want to install the driver.
  - You can copy the RPM package to the /home/nutanix directory.
- 5. Log on to any Controller VM in the cluster with SSH as the nutanix user.(Nutanix/Nutanix/4u)
- 6. Install Drivers
  - a. nutanix@cvm\$ install\_host\_package -r rpm

Note: Replace rpm with the path to the driver on the Controller VM

## **Verification**

nutanix@cvm\$ hostssh "rpm -qa | grep -i nvidia"

or

with NCC Check detects if the NVIDIA driver is missing on any GPU node

ncc health\_checks hypervisor\_checks gpu\_driver\_installed\_check

OR

This inspects the output for a table of output containing, amongst other things, the driver version and detected GPU resources.

nutanix@cvm\$ hostssh nvidia-smi

| utanix<br><br>hu Mar | @NTNX<br>24 0     | -SGH01<br>= 172.<br>B:33:3 | 2W6B5-A-CVM:172<br>30.8.29 ======<br>3 2022 | 2.30.8.31:~\$ hostssh nv<br>======       | idia-smi  |
|----------------------|-------------------|----------------------------|---|--|---|
| NVIDI                | A-SMI             | 450.1                      | 24 Driver                                   | Version: 450.124                         | CUDA Version: N/A   |
| GPU<br>Fan           | Name<br>Temp      | Perf                       | Persistence-M<br>Pwr:Usage/Cap              | Bus-Id Disp.A<br>Memory-Usage            | Volatile Uncorr. ECC<br>  GPU-Util Compute M.<br>  MIG M. |
| 0<br>N/A             | Tesla<br>63C      | T4<br>P8                   | 0n  <br>21W / 70W  <br>                     | 00000000:37:00.0 off<br>75MiB / 15359MiB |   |
| Proce<br>GPU         | sses:<br>GI<br>ID | CI<br>ID                   | PID Typ                                     | e Process name                           | GPU Memory<br>Usage                                       |
| No r                 | unnin             | g proc                     | esses found                                 |  |   |

| Thu Mar 2                   | 24 08            | : 172.<br>:34:0 | 30.8.28 ==<br>2 2022   |                    |                |                                |                      |   |
|-----------------------------|------------------|-----------------|------------------------|--------------------|----------------|--------------------------------|----------------------|---|
| NVIDIA                      | -SMI             | 450.1           | 24 Dr                  | iver               | Version:       | 450.124                        | CUDA Versi           | on: N/A                                 |
| GPU Na<br>  Fan Te          | ame<br>emp       | Perf            | Persister<br>Pwr:Usage | nce-M<br>e/Cap     | Bus-Id         | Disp.A<br>Memory-Usage         | Volatile<br>GPU-Util | Uncorr. ECC  <br>Compute M.  <br>MIG M. |
| 0 Te<br>  N/A 6<br> <br>+   | esla<br>61C      | T4<br>P8        | (<br>19W /             | )n  <br>70W  <br>+ | 0000000<br>79M | 0:37:00.0 Off<br>iB / 16383MiB |                      | Off  <br>Default  <br>N/A               |
| +<br>  Process<br>  GPU<br> | ses:<br>GI<br>ID | CI<br>ID        | PID                    | Тур                | e Proc         | ess name                       |                      | GPU Memory  <br>Usage                   |
| No rur<br>+                 | nning            | j proc          | esses four             | nd                 |                |                                |                      | +                                       |



## **NVIDIA Drivers installation on Guest (VDI)**

| Home                       | footo Excludening er cont  |   | shanexe                       |   | - ,,     | ~        |
|----------------------------|--|---|-------------------------------|---|----------|----------|
| Ela                        | psed time:   | 00:00:04  | Total size:                   |   | 512 MB   |          |
| × ↑ Re                     | maining time:  | 00:00:00  | Speed:                        |   | 111 MB/s |          |
| File                       | IS:  | 225   | Processed:                    |   | 512 MB   | Mach     |
|                            |  |   | Compressed size:              |   | 375 MB   | Size     |
| Em                         | ors:   | 170   | Compression ratio:            |   | 73%      |          |
| esktop Ext                 | racting  |   |                               |   |          | 2 95 112 |
| ownloa                     |  |   |                               |   |          | 3,03,112 |
| set                        | up.exe   |   |                               |   |          | 1,44,044 |
| ocume                      |  |   |                               |   |          | 12,342   |
| ictures                    |  |   |                               |   |          |          |
| lusic -                    |  |   |                               |   |          |          |
| 1                          | C:\Software\452.96_g   | rid_win10_server2016_serv   | er2019_64bit_international.ex | e | ^        |          |
| aeos                       | Warning: Checksum er   | TOP   |                               |   |          |          |
| Drive 2                    | Data error : Display.Dri   | ver\nvd3dumx_cfg.dl_  |                               |   |          |          |
| 3                          | Data error : Display.Dri   | ver\nvd3dum_cfg.dl_   |                               |   |          |          |
| c 4                        | Data error : Display.Dri   | ver\nvdebugdump.ex_   |                               |   |          |          |
| 5                          | Data error : Display.Dr  | ver/nvdecmftmjpeg.dl_   |                               |   |          |          |
| rk 7                       | Data error : Display.Dr  | ver viv decmttmjpegx.dl_  |                               |   |          |          |
| 6                          | Data error : Display.Dri   | ver vivalist.al_  |                               |   |          |          |
| 9                          | Data error : Display.Dri   | ver\nvdristx.ur_  |                               |   |          |          |
| 3                          | 0 Data error : Display.Dri   | ver\nvencmfth264 d  |                               |   |          |          |
| 1                          | 1 Data error : Display Dri   | ver\nvencmfth264x dl  |                               |   |          |          |
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| 1                          | 2 Data error : Display Dri   | a we want we sweet and the start of the                               |                               |   |          |          |
| 1<br>1<br>1                | 2 Data error : Display.Dri<br>3 Data error : Display.Dri   | ver\nvencmfthevcx.dl  |                               |   |          |          |
| 1<br>1<br>1<br>1<br>1      | 2 Data error : Display.Dri<br>3 Data error : Display.Dri<br>4 Data error : Display.Dri   | ver\nvencmfthevcx.dl_<br>ver\nvencodeapi.dl                           |                               |   |          |          |
| 1<br>1<br>1<br>1<br>1      | 2 Data error : Display.Dri<br>3 Data error : Display.Dri<br>4 Data error : Display.Dri<br>5 Data error : Display.Dri   | ver\nvencmfthevcx.dl_<br>ver\nvencodeapi.dl_<br>ver\nvencodeapi64.dl  |                               |   |          |          |
| 1<br>1<br>1<br>1<br>1<br>1 | 2 Data error : Display.Dri<br>3 Data error : Display.Dri<br>4 Data error : Display.Dri<br>5 Data error : Display.Dri   | ver\nvencmfthevcx.dl_<br>ver\nvencodeapi.dl_<br>ver\nvencodeapi64.dl_ |                               |   | <u> </u> |          |
| 1<br>1<br>1<br>1<br>1      | <ol> <li>Data error : Display.Dri</li> </ol> | ver\nvencmfthevcx.dl_<br>ver\nvencodeapi.dl_<br>ver\nvencodeapi64.dl_ |                               | C | lose     |          |

Download Lower Version & installed (NVIDIA-GRID-Linux-KVM-450.102-450.102.04-452.77)



| ile Optio<br>rocesses | ons View<br>Performance              | App history | Startup       | Users    | Details  | Services            |       |             |  |                        |        |
|-----------------------|--------------------------------------|-------------|---------------|----------|----------|---------------------|-------|-------------|--|------------------------|--------|
|                       | CPU<br>5% 1.99 GF                    | łz          |               |          |          |                     |       |             |  |                        |        |
|                       | Memory<br>2.2/8.0 GB (               | (28%)       | ~ Vi          | deo En   | code     |                     | 0%    | ✓ Video     | Decode                                 |                        | 0%     |
|                       | Disk 0 (C<br>HDD<br>0%               | ::)         |               |          |          |                     |       |             |  |                        |        |
| levile man            | Ethernet<br>Ethernet<br>S: 24.0 R: 0 | Kbps        | Dedic         | cated GF | O memor  | y usage             |       |             |  |                        | 3,5 GB |
|                       | GPU 0<br>NVIDIA GRI<br>0%            | D T4-4Q     | Share         | ed GPU r | nemory u | sage                |       |             |  |                        | 4.0 GB |
|                       |                                      |             | Utiliza<br>0% | ation    | C<br>(   | edicated<br>).3/3.5 | GPU 7 | memory<br>3 | Driver ver<br>Driver dat<br>DirectX ve | sion:<br>e:<br>ersion: |        |
|                       |                                      |             | 0.4           | /7.5 (   | GB (     | 0.0/4.0             | ) GE  | mory<br>3   | Physical I<br>Hardware                 | ocation:<br>reserved   | d me   |

Fewer details Solution Provide the American Sector Sector Provide the American Sect

## **Important Notes & KB References**

# vGPU

Dedicated GPU(Pass through GPU ) assign to single VM which limits scalability

Shared GPU (vGPU) can be shared across all VM's -> 64 users per card (need to check limit for T4

# NVIDIA GRID Virtual GPU Manager -> means it is Host Drivers which will be installed on Hosts(hyperisor)

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# Install and upgrade NVIDIA drivers

• The NVIDIA GRID API provides direct access to the frame buffer of the GPU, providing the fastest possible frame rate for a smooth and interactive user

experience. If you install NVIDIA drivers before you install a VDA with HDX 3D Pro, NVIDIA GRID is enabled by default.

- To enable NVIDIA GRID on a VM, disable Microsoft Basic Display Adapter from the Device Manager. Run the following command and then restart the VDA: NVFBCEnable.exe -enable -noreset
- If you install NVIDIA drivers after you install a VDA with HDX 3D Pro, NVIDIA GRID is disabled. Enable NVIDIA GRID by using the NVFBCEnable tool provided by NVIDIA.
- To disable NVIDIA GRID, run the following command and then restart the VDA: NVFBCEnable.exe -disable -noreset

https://docs.citrix.com/en-us/xenapp-and-xendesktop/7-15-ltsr/graphics/hdx-3d-pro/gpu-acceleration-desktop.html

https://discussions.citrix.com/topic/410107-nvidia-gpu-not-used-as-primary-display-driveron-passthrough-mode/ Q: Nvidia GPU not used as primary display driver on passthrough mode

Do you have the licensing from NVIDIA installed on a license server and the service registered with your VM(s)? Are the drivers properly installed on your host? What do you get if you run nvidia-smi from the CLI on your XenServer/Citrix Hypervisor host? You won't be able to run it without properly installed and configured licensing.

# Installing and Upgrading NVIDIA GRID Virtual GPU Manager (Host Driver) -Good

https://portal.nutanix.com/page/documents/details?targetId=NVIDIA-Grid-Host-Driver-For-AHV-Install-Guide:nvi-nvidia-grid-vgpu-host-drivers-install-t.html

## NVIDIA GRID Host Driver for AHV Installation Guide

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https://portal.nutanix.com/page/documents/details?targetId=NVIDIA-Grid-Host-Driver-For-AHV-Install-Guide:NVIDIA-Grid-Host-Driver-For-AHV-Install-Guide

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## VIRTUAL GPU SOFTWARE EVALUATION - Free 90 Days Trial

https://www.nvidia.com/en-us/data-center/resources/vgpu-evaluation/

List of Certifed Hardware from NVIDIA

https://www.nvidia.com/en-us/data-center/resources/vgpu-certified-servers/

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## VIRTUAL GPU SOFTWARE

https://docs.nvidia.com/grid/10.0/grid-vgpu-release-notes-nutanix-ahv/index.html

**Good for Tesla Details** https://docs.nvidia.com/grid/13.0/grid-vgpu-user-guide/index.html

## Getting your NVIDIA® Virtual GPU Software Version -Good

https://docs.nvidia.com/grid/get-grid-version.html

# GPU ACCELERATED VDI DEPLOYMENTS WITH NVIDIA AND NUTANIX - Very Good

https://www.nvidia.com/en-us/data-center/nutanix/

# HDX 3D Pro GPU Support and Deployment Considerations -Good

https://support.citrix.com/article/CTX131385

NVIDIA GRID Virtual GPU Support on AHV

https://portal.nutanix.com/page/documents/details?targetId=AHV-Admin-Guide-v6 1:ahvnvidia-grid-vgpu-support-on-ahv-c.html

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The Prism web console does not support console access for VMs that are configured with a vGPU

https://portal.nutanix.com/page/documents/details?targetId=AHV-Admin-Guide-v6\_1:ahvnvidia-grid-vgpu-support-on-ahv-c.html

vGPU VMs may not power on after AHV 20190916.x upgrade https://portal.nutanix.com/page/documents/kbs/details?targetId=kA00e000000bsLmCAI From AOS 5.18.1 with NVIDIA Virtual GPU software 10.1 (440.53) on, you can live-migrate vGPU-supported VMs.

https://portal.nutanix.com/page/documents/solutions/details?targetId=TN-2046-vGPU-on-Nutanix:TN-2046-vGPU-on-Nutanix

AHV-compatible host and guest drivers and GRID software for AOS versions 5.15.4 and on are available on the Nutanix portal under Downloads > AHV > NVIDIA downloads.

camprasadie com