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SILENT INSTALL OF THE GRID VM GRAPHICS DRIVER FOR WINDOWS

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CONTENT

<u>Important Notes:</u>

- Microsoft's MSI installation method is not supported. NVIDIA's Installer 2.0 is NVIDIA's own proprietary method
- Clean installation of the graphics driver is not recommended unless it is used for troubleshooting (rarely necessary)
- Uninstall driver is not recommended unless it is for troubleshooting (not for deployment)
- For troubleshooting, run commands locally (non-deployment)
    - If installation is successful, this indicates the failure is not caused by the silent installation switches of the NVIDIA Graphics driver
    - If installation fails, provide <u>installer logs</u> to <u>Enterprise Support (https://www.nvidia.com/en-us/support/enterprise/)</u> so they can troubleshoot the issue

<u>NVIDIA Graphics Driver Setup Switches</u>

    -s = silent

    -n = Suppress reboot if required

<u>Silent Installation Command</u>

Extract the files from the graphics driver installation package. Navigate to the extracted files and run the following command:

    setup -s -n (over-install driver)

Graphics Driver Installation Logs

    setup.exe -log:"C:\test1" -loglevel:6

    Using the command above places the installer logs into the c:\test1 folder that is automatically created. You can change the folder location by changing:

    "C:\test1" to "<driveletter:>\<foldename>"

Note that there will be many errors in the log that are normal so do not be alarmed if you see several errors. The log is cryptic and contains error codes that can only be referenced by NVIDIA.

NVIDIA Install Exit Codes

0 = Successful installation
1 = Successful installation, reboot required

Both of these exit codes represent a successful installation.

Important note. You may need to configure your deployment solution to accept exit code 1 as a successful installation, otherwise your deployment solution may consider exit code 1 as a failure and abort the installation.

Registry Commands for License Server Settings (VM)

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reg add HKLM\SOFTWARE\NVIDIA
Corporation\Global\GridLicensing /f /v ServerAddress
/t REG_SZ /d <address>

reg add HKLM\SOFTWARE\NVIDIA
Corporation\Global\GridLicensing /f /v ServerPort /t
REG_SZ /d 7070

reg add HKLM\SOFTWARE\NVIDIA
Corporation\Global\GridLicensing /f /v FeatureType /t
REG_DWORD /d 1

Examples of FeatureType values
(https://docs.nvidia.com/grid/13.0/grid-licensing-user-
guide/index.html#configuring-nls-licensed-client-on-
windows) are:

/d 0 = NVIDIA Virtual Applications   **/d 1** = NVIDIA
vGPU   **/d 2** = NVIDIA RTX Virtual Workstation

Reboot the VM for everything to take effect and verify
the settings. Contact Microsoft for more information on
Microsoft registry switches

Microsoft Registry Switches

/t = type of registry entry

/f = adds registry entry with no prompts

/v = name of new sub key

/d = data for new sub key

/s = separator

Contact Microsoft for more information on
Microsoft registry switches

<u>Additional Install Switches to Customize NVIDIA Graphics</u>
<u>Display Driver Deployments</u>

> **-h:pixels** -h:1600 Sets display horizontal
> resolution
> **-v:pixels** -v:1200 Sets display vertical resolution
> **-b:depth** -b:32 Sets bit depth (bits per pixel)
> **-j:freq** -j:60 Sets refresh frequency (Hz)
> **-k** Force reboot after install, even if reboot is not
> required
> **-i** Don't show welcome/reboot, but show package
> selection UI if needed and progress

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