

Data Center Rack Reboot Time



Article Overview

Typical data center rack reboot times range from a few minutes for individual components to 10–15 minutes for full rack systems to become fully operational.

Reboot Duration Overview

The time required to reboot a data center rack depends on whether it is a cold reboot (power completely off) or a warm reboot (software-level restart without full power down). For example, in NVIDIA DGX GB racks, a cold reboot involves powering off all power shelves, waiting 3–5 minutes for capacitors to discharge, and then powering on the shelves and compute trays, followed by verification of services like NMX-C and GPU persistence. This process can take several minutes to over 10 minutes depending on the number of compute trays and services being restarted. For Cisco Fabric Interconnects (FI), the 6200 platform typically takes 10–15 minutes to reboot fully, while the 6100 platform may take slightly longer. During this time, management interfaces may be temporarily unresponsive, though data-plane traffic continues without loss.

Factors Affecting Reboot Time

- **Type of Reboot:** Cold reboots are longer due to complete power cycling, while warm reboots are faster as only software services are restarted.
- **Number of Components:** More compute trays, switches, and power shelves increase the total reboot time.
- **Verification Steps:** Post-reboot checks for services like nvidia-persistenced, nvidia-imex, and NMX-C add to the overall duration.
- **Power and Cooling Systems:** Fast restart of chillers and UPS-backed power can re...

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How can I check the time taken for my Windows 2019 server to reboot. I know typically it takes 1-5 mins depends on

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Does reboot time for servers improve in newer generations (hardware)

I have some poweredge R710's and when I have to reboot them it can take quite a long time - I'm talking on the order

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We offer switched rack PDUs designed for this type of thing but ATS does not encompass that functionality as I

Contact Us

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