How to replace the network module in the server rack



Overview

This video demonstrates the process of removing and installing the Serial and Network module in a PowerEdge R670.

Key Takeaways

To replace a network module on a server rack, power down the chassis, disconnect all cables, remove the module, install the new module, reconnect cables, and power the system back on.

Safety and Preparation

Before starting, ensure you follow all safety guidelines: Only trained or qualified personnel should perform the replacement. Disconnect all power sources to avoid electric shock. Label network cables to ensure correct reconnection.

Review the server's service manual for model-specific instructions.

Step-by-

Step Replacement Procedure

Power Down the Server Move the power switch to the OFF position and disconnect all power cords. For servers with multiple power supplies, ensure all are disconnected.

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Access the Network Module

Remove the server cover and any drive backplane covers if applicable. For rack-mounted servers, ensure the chassis is properly supported and accessible. Disconnect Cables Unroute and disconnect all network and serial cables connected to the module.

Keep track of cable positions for reinstallation.

Remove the Existing Module

Loosen any screws or retention latches securing the module. Pull the module straight out of its slot, holding it by the edges to avoid damage.

Install the New Module

Align the new module with the slot and slide it in until it is fully seated. Secure the module with screws or retention latches. Ensure the handle or latch is flush with the front of the module.

Reconnect Cables Route and reconnect all previously disconnected cables to their correct ports. Reassemble the Server Replace any backplane or chassis covers and secure them properly.

Power On and Verify

Reconnect power and turn on the server. Verify that the new network module is recognized by the system and that all network interfaces are operational. Install any required drivers or firmware updates as specified in the server documentation.

Additional Considerations

Airflow and Cooling: Use blanking panels in empty slots to maintain proper airflow and FCC compliance.

Hot-

Swap Limitations: Some servers may support hot-swapping hardware, but most network modules require the chassis to be powered down. Documentation: Always refer to the specific server model's service manual for detailed instructions and torque specifications. Following these steps ensures a safe and effective replacement of the network module while maintaining system integrity and compliance.

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