

ESXi check the emitting power of the optical module



AI Overview

ESXi does not natively provide SFP/optical module power readings; you must use switch interfaces or server management tools like iDRAC or iLO to access this information.

ESXi Limitations ESXi hosts allow you to query basic network adapter information using commands like: `CodeCopyesxcli network nic get -n vmnicX` This provides link status, port speed, and driver/firmware details, but does not include SFP transmit or receive power. Tools like `ethtool` are limited on ESXi and cannot retrieve optical module metrics such as the `-m` option available on Linux. Therefore, ESXi alone cannot directly measure the emitting power of an optical module.

Alternative Methods

Switch Monitoring Most managed switches provide SFP diagnostics, including TX/RX power, temperature, and voltage. You can log into the switch CLI or web interface to check the optical module connected to the ESXi host port.

Server Management Interfaces If your ESXi host is on a server with iDRAC (Dell) or iLO (HP), these interfaces can sometimes report NIC and SFP status, including optical power readings. This requires access to the management console and may vary by NIC model.

Monitoring Tools Tools like Checkmk or other VMware monitoring solutions can collect hardware sensor data via the vSphere API, but they rely on the host or switch exposing the SFP metrics. Direct optical power readings are usually only available if the switch or NIC supports reporting through the API.

Recommended Approach Check the switch port connected to the ESXi host for optical power readings. Use iDRAC/iLO if available for additional NIC diagnostics. Combine ESXi NIC info with switch or management data to troubleshoot connectivity or signal issues. By combining these sources, you can effectively monitor the emitting power and health of optical modules even though ESXi itself does not provide direct access.

Article Content

Determine the power status of a virtual machine on an ESX or ESXi Host

This article provides information on how to determine the power status of a virtual machine on an ESX or ESXi host. In some instances, the power status of a virtual machine on an

How to Measure Power Level of SFP Transceiver Modules?

Through real-time monitoring of the module's internal operating voltage, temperature, receiver power, transmitter bias current, and transmitter power, this approach allows for better fault

FAQ-How Do I View the Transmit and Receive Optical Power of an Optical ...

Modular Switch V200R002& V200R003 The Current Rx Power (dBm) field in the command output indicates the current receive power of the optical module, and the Current Tx

How To Check The Optical Signal Strength Of SFP Optical Module

To determine if the SFP optical module (transmitter and receiver) is operating at the proper signal level, you can check the status information of the SFP optical module. This information

Optical Module Common Failure Of Optical Power Abnormality

Digital Diagnostic Monitoring (DDM) Function Of Optical Modules enables real-time monitoring of module operation and fault location. Among them, transmit and receive optical power

VMware ESXi Command Line Cheat Sheet

Below we list over 120+ common and useful CLI commands (including esxcli) for VMware ESXi Host and VM management. Keep in mind, these shell commands are to be ran at the

Testing Optical Transceivers: Different SFP Testing Methods

Discover the comprehensive guide to SFP optical transceiver testing, including the types of tests involved and step-by-step procedures. Ensure optimal performance and reliability of your

How to check and solve the optical module failure?

2.Optical power - use the optical power meter to test whether the light-emitting power of the port is in the normal range and stable. 3.Wavelength / distance - check whether the wavelength,

ESXi Host Network Adapter SFP/Transceiver Details | VMware vSphere

Unfortunately, there is no a way to get the SFP transceiver module from an ESXi host. You can use `esxcli network nic get -n vmnicX` to get some basic Layer 1 informations like, Port

Common Optical Transceiver Failures and Effective Troubleshooting ...

Discover the most frequent optical transceiver failures and learn how to diagnose, test, and solve them using proven techniques. Includes expert insights and testing methods for fiber optic

How to use ESXCLI v2 Commands in PowerCLI

ESXCLI is the main configuration command on an ESXi host. This post explains how to use the `Get-EsxCli cmdlet` with the new V2 interface, which is much more intuitive than the old

Optical Modules Monitoring | Netdata

Monitoring optical modules is crucial for ensuring network reliability and performance. Issues such as overheating or incorrect power levels can lead to network disruptions or hardware failures. Proactive

How Do I Check the Transmit and Receive Optical Power of an

Run the `display interface transceiver verbose` command to check the transmit and receive optical power of an optical module. In the command output, Current RX Power (dBm) and Current TX Power (dBm)

How to View Optical Module Status on a Cisco Switch via CLI ...

In this Cisco Tech Talk, learn how to view the optical module status on a Cisco switch using the Command Line Interface (CLI). This video demonstrates how to access the optical module

Check VM Power Status on ESXi Host

This article outlines the steps to determine the power status of a virtual machine on ESX or ESXi hosts, highlighting that the graphical interface may not always provide accurate information.

VMware ESXi: Which ESXCLI commands can be used to view Host

VMware ESXi: Which ESXCLI commands can be used to view Host Hardware, Storage and Virtual Switch Summary: The following article provides information about some ESXCLI

How Do I Query the Optical Power of an Interface?

How Do I Query the Optical Power of an Interface? You can run the `display interface [ interface-type interface-number | slot slot-id ] transceiver verbose` command to check the optical

How to View the DDM Information of Optical Transceiver via SNMP?

It enables users to monitor parameters of modules, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage, in real time.

SFP/SFP+ Module Information/Stats : r/vmware

Is there a way to obtain SFP/SFP+ module information from VSphere or the CLI in 6.5 U2? Information I am looking for is the transceiver model # and possibly tx/rx power levels.

Command to check optical power on cisco 7600 : r/Cisco

Have 1000base-lx/lh SFP transceiver connected to Gi1/5 port. Need to check optical power of the same through command line. Show interface transceiver detail- only shows the Te7/1 port which has

View the Optical Module Status on a Switch through the Command

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, you should be able to view the current information for the optical connection, which helps

Displaying Optical Module Information

When the current optical module power is between the upper and lower thresholds, the optical power is normal. When the current optical power exceeds the upper alarm threshold, a high optical power

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