

Specifications Sheet

The following Nagios-plugins for NetApp are available as of today.

Hardware

check_netapp_disk checks the disk-states of each disk (failed, replacing, ...).

check_netapp_hardware checks the NVRAM, cooling-devices, temperature-sensors and power-supplies of the head and its shelves.

Network

Performance

check_netapp_ops monitors the operations per second. Counter: total_ops read_ops write_ops nfs_ops cifs_ops http_ops fcp_ops iscsi_ops dafs_ops net_data_recv net_data_sent disk_data_read disk_data_written streaming_pkts.

check_netapp_utilization monitors the activity of processors and disks. Performance-data will be returned separated for each instance.

ifnet (Version 2) Checks and counts transfer-rates and errors per network-interface (ifnet). Especially useful for monitoring 10GbE-ports.

PerfDisk prüft alle Festplatten eines NetApp-Systems bezüglich deren 'Utilization' (Percentage of time there was at least one outstanding request to the disk). Optional können auch nur die Platten eines bestimmten Aggregates geprüft werden.

PerfVolume (Version 2) Checks the 'latency' and 'operations per second' (ops) per volume. Shows details for total, read, write and other. NetApp recommends monitoring latency as the primary performance indicator.

Processor checks one or all processors in a NetApp system for their utilization.

Snap

check_netapp_snapmirror checks and logs: lag-time, pair-state, pair-transfer-status, last-transfer-duration, transfer-errors.

check_netapp_snapshots checks, if the snap-reserve is

still sufficient. Thresholds are set in percent; performance-data can be either in percent or absolute (Byte).

check_netapp_snapvault monitors a SnapVault-relationship (lag-time, state, last-transfer-duration, transfer-errors)

Storage

check_netapp_quotas sends an alarm, if one of the defined quotas are exceeded. One service-check can monitor the whole filer, since we use the internal definitions of the quota-system as thresholds.

check_netapp_usage checks the used space in volumes and aggregates. Thresholds can be set in GB or percent.

Status

check_netapp_cluster checks the cluster-members regarding their state (connected, taken over, takeover failed, ...) and time-master-status (master, slave).

check_netapp_iSCSI-adapter monitors one or all iSCSI-adapters (online, offline, local, partner, error).

check_netapp_raidstatus alarms, if one of the RAIDs is degraded. Checks aggregates and volumes.

check_netapp_status alarms, according to the global-status.

Other

Handbuch (deutsch) Documentation and help (German)

Nagios Konfiguration (netapp.cfg) Nagios example-configuration for each plugin. This is taken directly from our the test-server.

NagTools a Perl Module with a library of commonly used subroutines.

print_netapp_sysinfo a command-line tool useful when implementing the plugins. Lists all SnapVaults, the performance-counters, name and version of the filer, ...

README Installation-Guide