

Parameters for the Linux Environment Monitoring Service

PARAMETER	DESCRIPTION	OK	WARNING	CRITICAL
Check run_tools script	Checks the successful execution or status of a specific system maintenance or utility script.	Last execution completed successfully within expected time	Execution completed with warnings or exceeded expected runtime	Script failed, did not run, timed out, or returned an error
CPU Idle	Checks the percentage of CPU time that is not being used by any process.	CPU idle is within normal range	CPU idle is low for a sustained period	CPU idle is critically low; CPU is saturated
CPU Temperature	Monitors the temperature of the CPU cores and the server case for overheating.	All CPU cores < 60°C	Any CPU core >= 60°C	Any CPU core >= 70°C
Current Load	Monitors the average system load (number of processes waiting for CPU time) over 1, 5, and 15 minutes.	Load average below warning thresholds (1/5/15)	Load average >= 125,120,115 (1/5/15)	Load average >= 150,145,140 (1/5/15)
Current Users	Checks the number of users currently logged into the system.	Logged-in users <= 5	Logged-in users > 5	Logged-in users > 10
Memory Usage	Monitors the total system RAM usage (used vs. free memory).	Free/available memory is >= 10%	Free/available memory is < 10%	Free/available memory is < 5%
Swap Usage	Monitors the utilization of the swap space (virtual memory on disk).	Swap free is >= 80% (or no active swapping)	Swap free is < 80% (or moderate active swapping)	Swap free is < 50% (or heavy active swapping)
Total Processes	Checks the total number of processes currently running on the system.	Total processes < 2000	Total processes >= 2000	Total processes >= 2500
Zombie Processes	Monitors the number of processes that have terminated but have not yet been reaped by their parent process.	Zombie processes < 5	Zombie processes >= 5	Zombie processes >= 10
APACHE Status	Monitors the status and performance metrics of the Apache web server (e.g., number of workers, idle threads).	Apache is running and responding normally	Apache is running but under high load / degraded performance	Apache is down or not responding
Check FTP	Checks the availability and response time of the File Transfer Protocol (FTP) service.	FTP service reachable and responding	FTP responding slowly or intermittently	FTP service unreachable or down
Check Mailq	Monitors the size or status of the mail queue for pending emails.	Mail queue size within normal limits	Mail queue is growing / above warning threshold	Mail queue extremely large or stuck (not decreasing)
Check MySQL	Monitors the size or status of the mail queue for pending emails.	MySQL reachable and basic health checks pass	MySQL reachable but performance/replication indicators degraded	MySQL down, refusing connections, or health check failed
Check RBL	Checks if the server's IP address is listed on any common Real-time Blackhole Lists (RBLs) for spam.	IP address is not listed on common RBLs	-	IP address is listed on one or more RBLs
Check SSL cert	Monitors the expiration date and validity of the SSL certificate for a specified domain.	Certificate valid and not close to expiry	Certificate expiring soon	Certificate expired, invalid, or hostname mismatch
Memcached Status	Checks the availability and performance metrics of the Memcached key-value store.	Memcached reachable and responding	Memcached responding slowly or intermittently	Memcached unreachable or down
IPTABLES Status	Checks the running status of the IPTABLES firewall service.	Firewall service is running and rules are loaded	-	Firewall service stopped and/or rules missing
PING	Checks if the server is reachable on the network, measures packet loss, and Round Trip Time (RTA).	Host reachable with acceptable latency and no/low loss	Packet loss and/or latency above warning threshold	Host unreachable or loss/latency at critical level
Portscan	Checks whether specific (expected) ports are open or closed on the server.	All required ports are in the expected state	Non-critical port mismatch detected	Critical port mismatch (required closed/open) detected
Check Raid	Checks the health and status of the server's hardware or software RAID array.	RAID array is healthy/optimal	RAID is degraded but still operational	RAID failed or data is at risk
Check Smart sda	Checks the Self-Monitoring, Analysis and Reporting Technology (SMART) status for the disk drive sda.	SMART status OK	SMART indicates degrading attributes	SMART reports failure or imminent failure
Free Space Storage	Checks the available free disk space on a primary storage mount point.	Free space is >= 20%	Free space is < 20%	Free space is < 10%
Free Space home	Checks the available free disk space on the /home directory partition.	Free space is >= 20%	Free space is < 20%	Free space is < 10%
Free Space mysql	Checks the available free disk space on the partition hosting MySQL data.	Free space is >= 20%	Free space is < 20%	Free space is < 10%
Free Space root	Checks the available free disk space on the / (root) partition.	Free space is >= 20%	Free space is < 20%	Free space is < 10%
Free Space usr	Checks the available free disk space on the /usr partition.	Free space is >= 20%	Free space is < 20%	Free space is < 10%
Free Space var	Checks the available free disk space on the /var partition (often used for logs).	Free space is >= 20%	Free space is < 20%	Free space is < 10%
Free Space www	Checks the available free disk space on the partition hosting web content (e.g., /var/www).	Free space is >= 20%	Free space is < 20%	Free space is < 10%
I/O sda	Monitors the input/output operations and performance for disk drive sda.	Disk I/O latency and utilization within normal limits	High disk I/O latency/utilization detected	Disk I/O saturated/timeouts; severe performance impact