

# LINUX HEALTH CHECK

Prepared for:

By: Jay Patel

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Company: CXReview Limited

1 Acacia Avenue, Luton. LU5 8PR

Email: [info@icomsol.com](mailto:info@icomsol.com) | Phone: (123) 456-7890

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## Healthcheck Report

Statement and Stats Across the Whole OS Environment Overall Status

(Green, Amber, Red)

Hosts	Performance	Security	Resource	Logs/Errors	Config	SOE standard	Overall status
10.100.152.164	Green	Red	Green	N/A	N/A	N/A	

Green = OK, No issues found

Yellow = Advisory, attention is required over the coming years

Amber = Warning, potential issues that need to be resolved over the next 12 months

Red = Critical, urgent attention is required

[ explanation of our benchmark against which these scores are recorded ]

## Performance and Metrics

Performance and Metrics (Green, Amber, Red)

Overall Status: Green

Findings (200 words): The Linux system at IP address 10.100.152.164 is performing optimally with no significant issues detected. The CPU usage is nearly idle with an average idle percentage of 99.95%, indicating that it is under minimal load. Additionally, the server's memory usage is healthy with the majority of its 5671MB total memory free. The system has been up for 21 days and continues to operate without high CPU or memory demands. There is no swapping activity observed, which is a positive sign as it means the system is not under memory pressure. The top resource-intensive processes show negligible CPU usage, further confirming the system's good health.

Host	Performance and Metrics	Status
10.100.152.164	The server is in a healthy state with its CPU and memory usage well under control. The CPU is nearly idle and there's a large amount of free memory available. No swapping activity is observed, indicating the system is not under memory pressure. The system has been running smoothly for 21 days without high demands on its resources.	Green

## Security and Compliance

Security and Compliance (Green, Amber, Red)

Overall Status: Red

Findings (200 words): The system lacks basic security measures. Although secure authentication is used for user accounts with most having nologin shells, the root account uses bash shell which is a potential security risk. Also, the SSH configuration allows password authentication which is less secure than key-based authentication. No firewall rules are found which means the system is exposed to potential external threats. The system is not configured with SELinux which provides additional mandatory access controls. No security updates indicate that the system might be vulnerable to known security issues in the current installed packages. The vulnerability report shows no vulnerabilities, but this could be due to lack of scanning rather than absence of vulnerabilities.

Host	Security and Compliance	Status
10.100.152.159	The system is scored red due to lack of firewall rules, usage of less secure password authentication for SSH, absence of SELinux configuration, potentially exposed root account, and no security updates applied. Although no vulnerabilities are reported, this might be due to lack of scanning and does not guarantee that the system is free from vulnerabilities. (~100 words)	Red

## Resource Utilization

Resource Utilization (Green, Amber, Red)

Overall Status: Green

Findings (200 words): The overall current system resource utilization is healthy. CPU usage is extremely low, with 99.93% idling and very little system usage. Top CPU-consuming processes are not consuming significant resources. RAM usage is minimal with 5.0 GiB free out of 5.5 GiB, indicating sufficient free memory. There is no SWAP activity, indicating the system is not under memory pressure. Disk I/O performance is normal with no significant read/write operations or latency issues. Network interface shows no packet loss or errors. The processes running on the system aren't consuming significant memory resources. System logs do not indicate any critical issues. Uptime is good with no read-only file systems or zombie processes. INode usage is minimal with only 1% utilization. NTP synchronization is properly configured.

Host	Resource Utilization	Status
rocky.vmware.lab	The resource utilization on this system is rated green due to low CPU usage, ample free RAM, normal disk I/O performance, and no significant issues found in system logs, process monitoring, or uptime and availability checks. There have been no recent shutdown events, no read-only file systems found, and no zombie processes detected.	Green

## Configuration Checks

Apologies, but the provided system configuration report does not contain the 'Configuration Checks' section or any information related to sysctl, SSH settings, PAM, kernel params, cron jobs, auditd, and hardening policies. Please provide a complete report to perform a comprehensive analysis.

Host	Configuration Checks	Status