Infrastructure Monitoring, Troubleshooting, and Validation

This overview covers the most recent completed work focused on stabilizing web services, improving observability, and validating system health across development and staging environments. The primary objective was to ensure reliable monitoring, confirm resource availability, and resolve alert-driven concerns through structured verification and configuration.

Monitoring coverage was expanded and validated using CheckMK with agent-based integrations. Hosts were confirmed as reachable and correctly registered, service discovery was performed, and essential checks—CPU load and utilization, disk I/O, filesystem health, NTP synchronization, and security auditing—were reviewed and confirmed healthy. Discovered services were accepted where appropriate, and configuration changes were activated to ensure monitoring reflected the current system state.

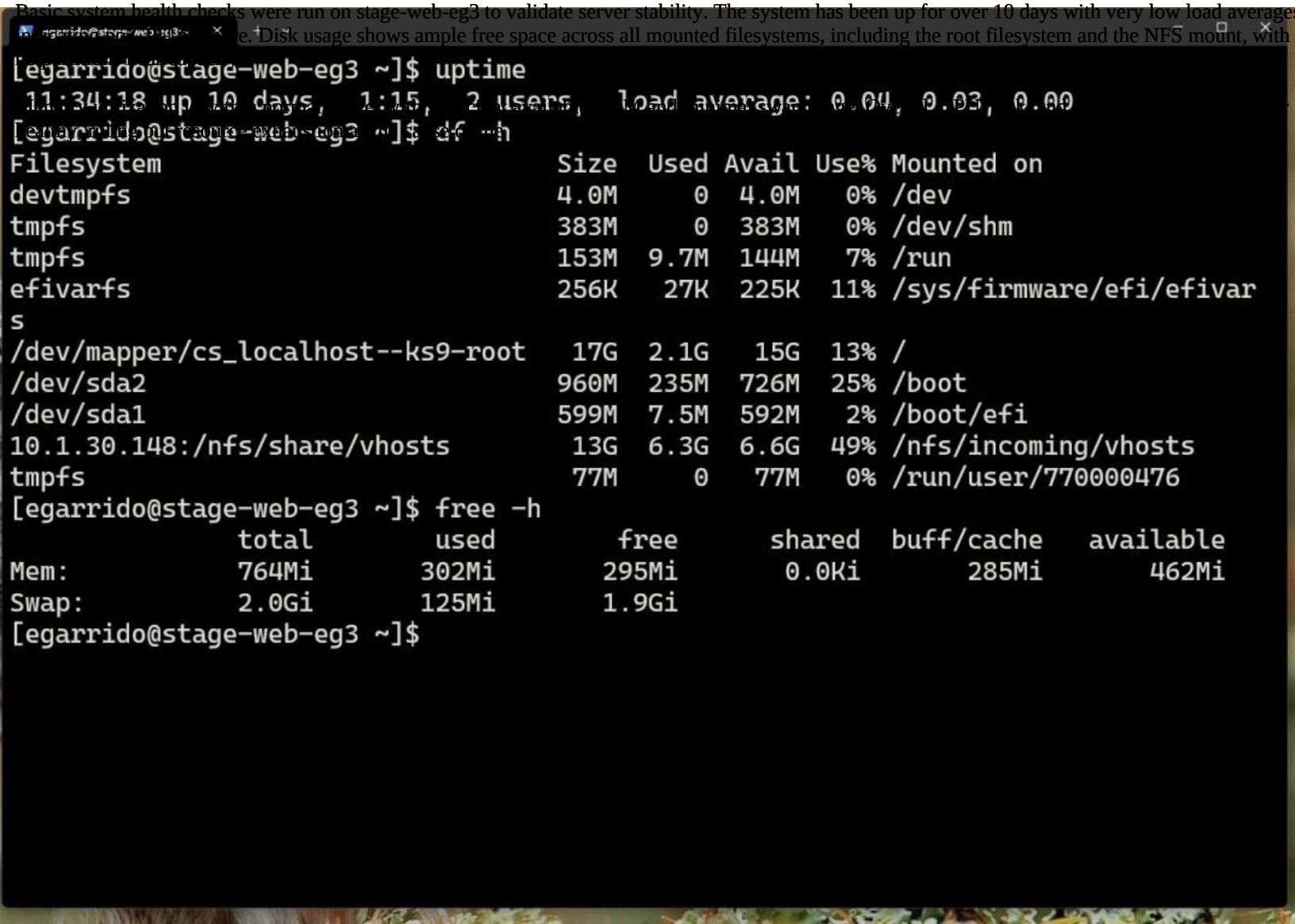
System-level troubleshooting ruled out resource exhaustion as a root cause for alerts. Uptime, load averages, memory usage, swap activity, and disk utilization were all within normal operating ranges. Process activity was minimal and stable, indicating no abnormal CPU or memory pressure during investigation.

Web server support configurations were also reviewed to ensure operational continuity. Apache log rotation settings were verified to confirm logs are managed correctly and that the service reloads gracefully after rotation, preventing interruptions or runaway disk usage. Network mounts and filesystem options were checked and matched expected configurations, further confirming platform stability.

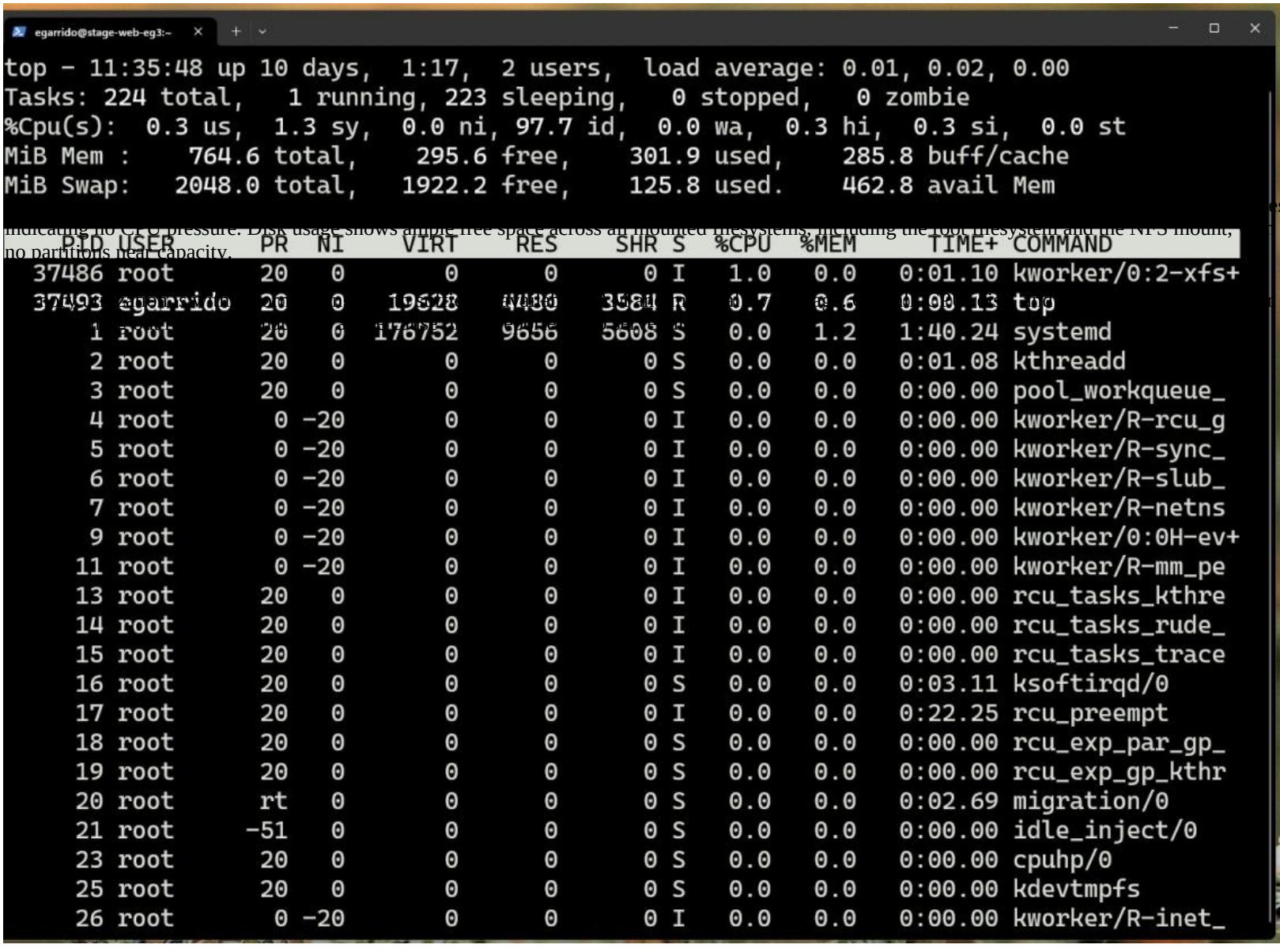
Overall, these efforts resulted in clean monitoring states, validated system health, and confidence that the staging and development web infrastructure is operating as expected. Monitoring is fully active with accurate visibility, alerts are actionable, and the environment is positioned for proactive operations rather than reactive troubleshooting.

Basic system health checks were run on stage-web-eg3 to validate server stability. The system has been up for over 10 days with very low load averages, indicating no CPU pressure. Disk usage shows ample free space across all mounted filesystems, including the root filesystem and the NFS mount, with no partitions near capacity.

Memory utilization is within normal range, with sufficient available RAM and minimal swap usage. Overall, CPU, disk, and memory resources appear healthy, ruling out resource exhaustion as the cause of the reported web server alerts.

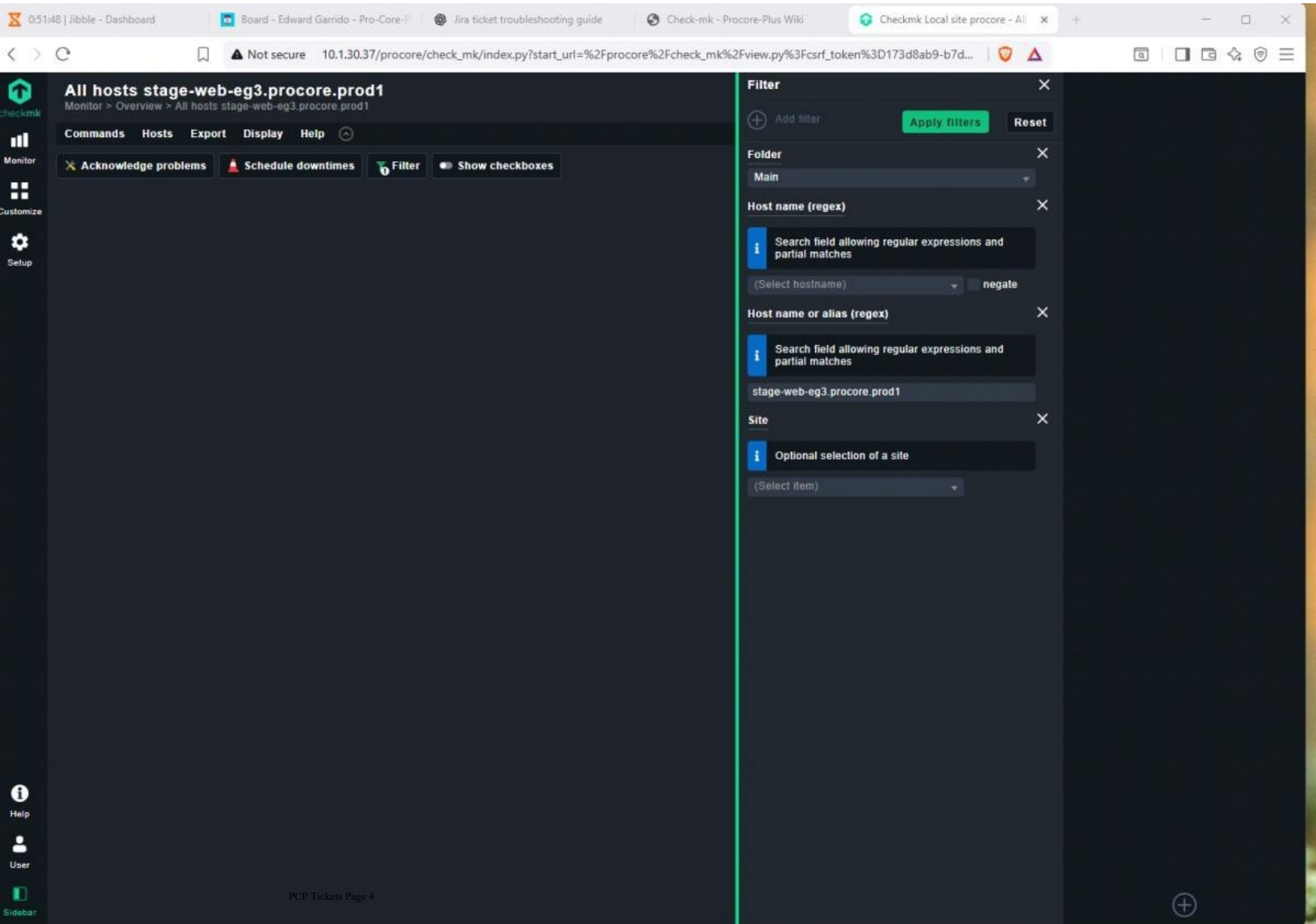


Only one active process is running at the time of capture, with the rest in a sleeping state, indicating normal system behavior. These results further confirm that CPU and memory pressure are not contributing factors to the reported web server issue.



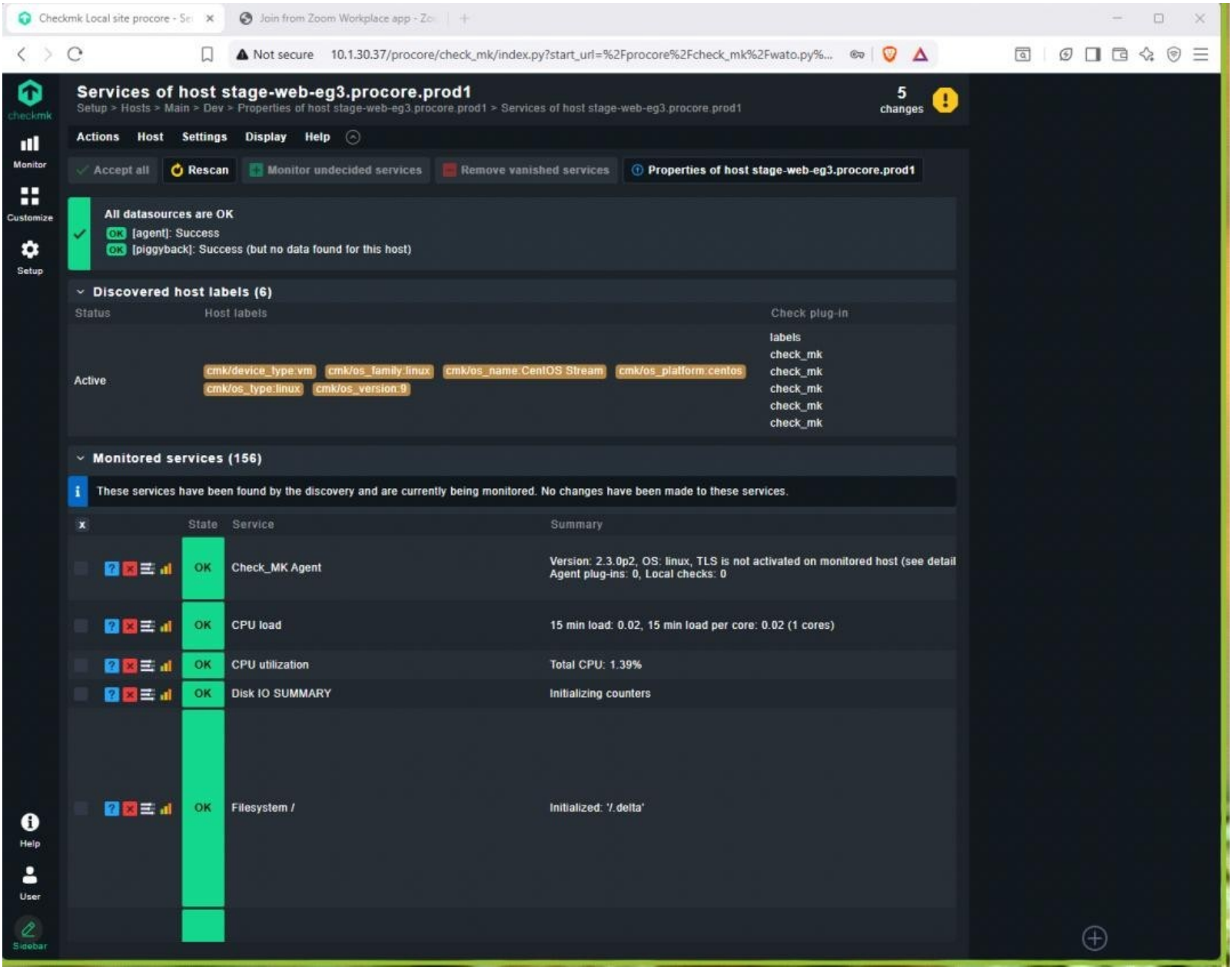
The CheckMK host overview is filtered to display stage-web-eg3.procore.prod1. Filters are applied using the host name, narrowing the view to this specific staging web server.

From this view, host-level actions such as acknowledging problems, scheduling downtime, and further inspection can be performed, confirming that the host is correctly registered and accessible within the monitoring environment for troubleshooting and validation.



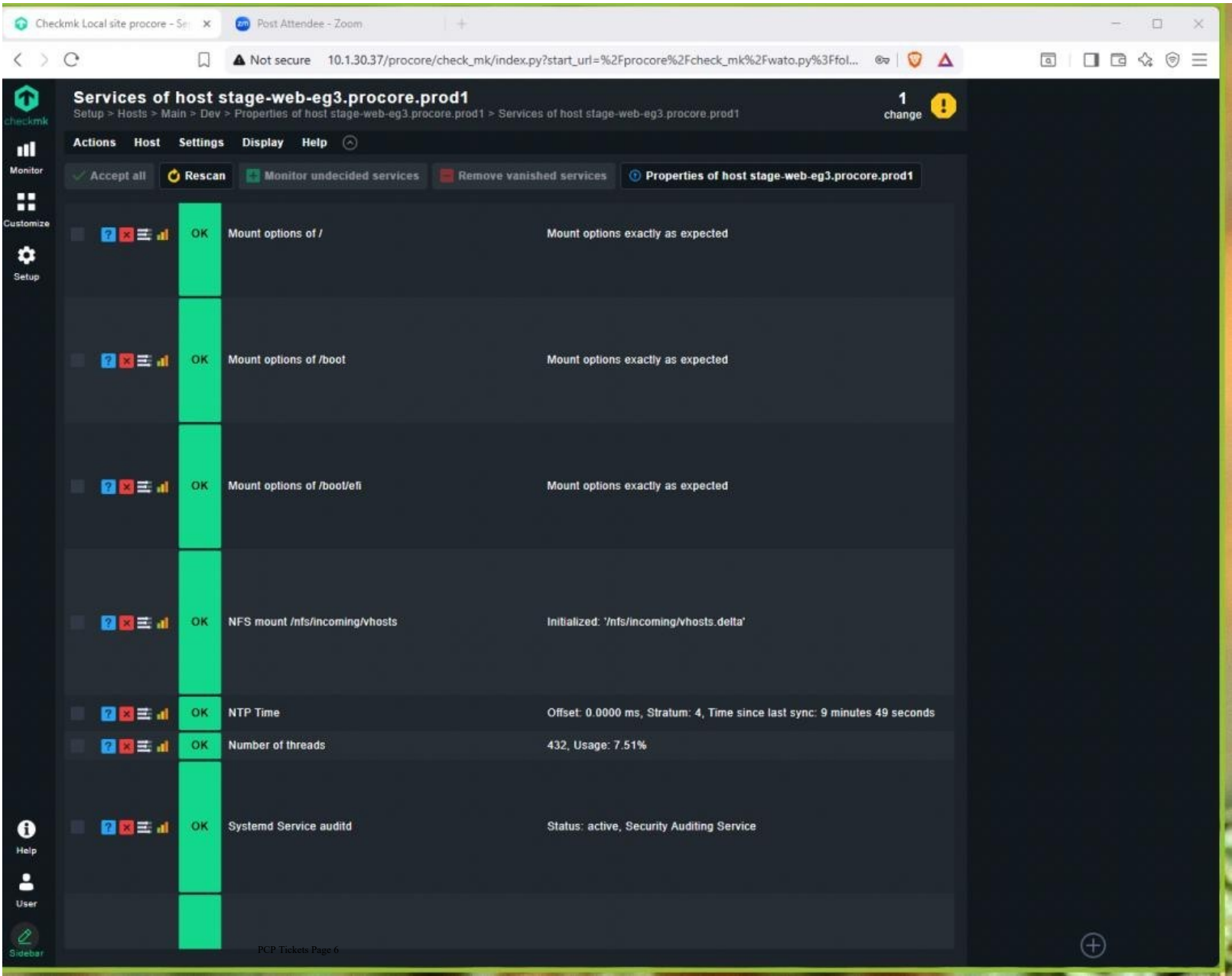
Service discovery for stage-web-eg3.procore.prod1 completed successfully, with all data sources reporting OK. The host is correctly identified as a Linux VM running CentOS Stream 9, and 156 services are actively monitored.

Key checks including the CheckMK agent, CPU load, CPU utilization, disk I/O, and the root filesystem (/) are all in an OK state, confirming the staging web server is healthy and functioning normally within CheckMK.

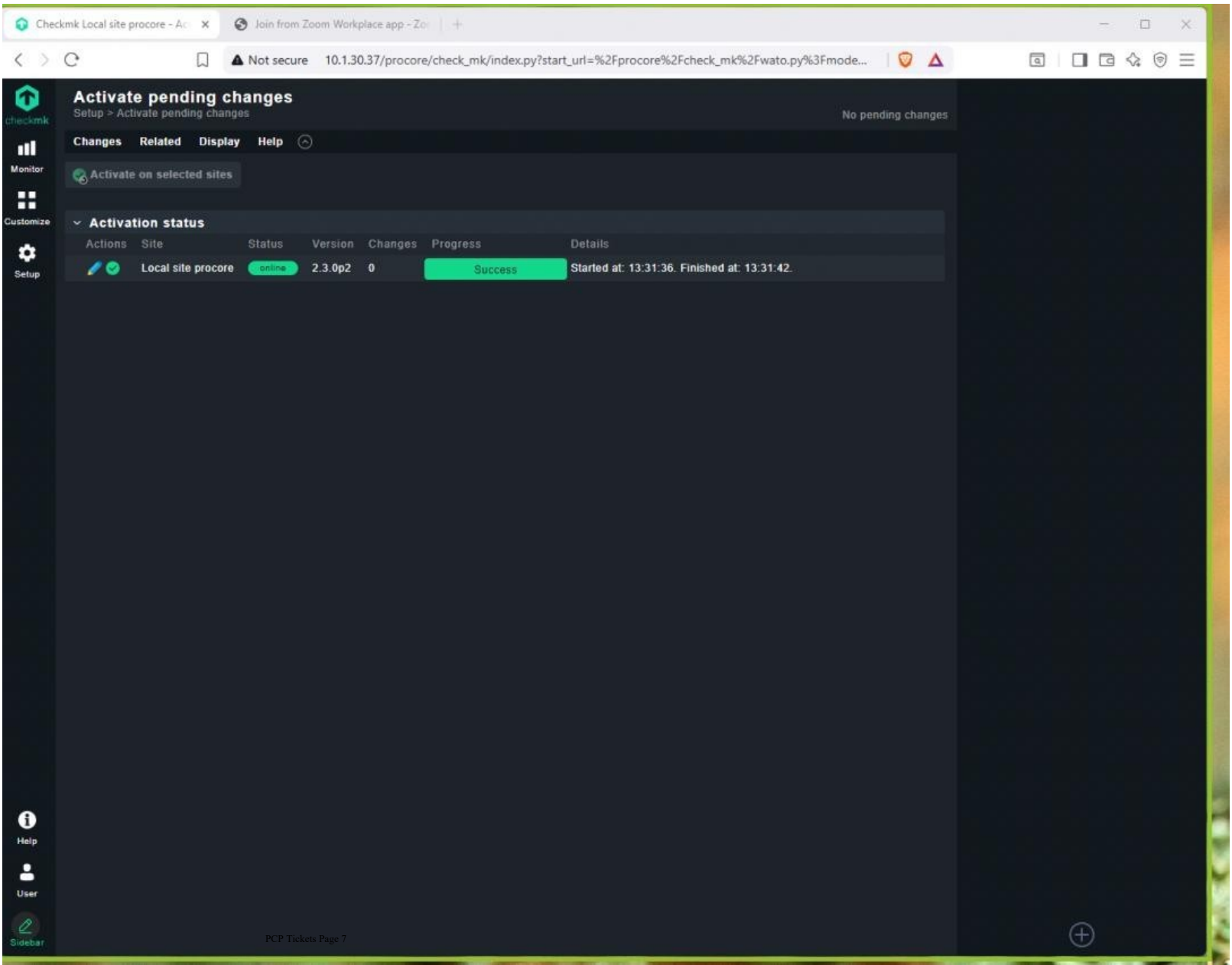


Additional service checks for stage-web-eg3.procore.prod1 show all monitored components in an OK state. Filesystem mount options for /, /boot, and /boot/efi match expected configurations, and the NFS mount at /nfs/incoming/vhosts is active and initialized correctly.

Time synchronization is healthy with NTP in sync, thread usage remains low relative to capacity, and the auditd security service is running and active. Overall, these results confirm stable system configuration and no active issues on the staging web server.



Pending configuration changes were successfully activated in CheckMK for the local site procore. The activation completed without errors, showing a Success status, and confirms that all recent monitoring and service updates are now live and applied to the environment.



Summary

Monitoring and troubleshooting efforts were completed across development and staging environments to address alert-driven concerns and improve system visibility. CheckMK agent-based monitoring was validated, hosts were confirmed reachable, service discovery was completed, and monitoring changes were activated to reflect the current system state.

System health checks confirmed stable operation, with normal uptime, low load averages, sufficient memory, minimal swap usage, and adequate disk capacity. Key services including CPU, filesystem, disk I/O, NTP synchronization, security auditing, and network mounts were all verified and operating as expected.

Web server support configurations were also reviewed, including Apache log rotation, to ensure logs are managed correctly and services reload cleanly without disruption. Overall, the environment is stable, monitoring is fully active, and the infrastructure is positioned for proactive detection and resolution of issues