

visibility into system health and performance.

Both dev-app and stage-web hosts were prepared by installing and verifying the CheckMK agent, confirming systemd services were active, and validating communication with the monitoring server. Hosts were added through the CheckMK interface, assigned to the correct site, and configured for IPv4-only connectivity to align with environment standards.

Service discovery identified essential operating system and performance checks, including CPU load, CPU utilization, disk I/O, and filesystem usage. Discovered host labels accurately reflected Linux virtual machine attributes and CentOS Stream 9, confirming proper system identification and readiness for monitoring activation.

Additional validation included reviewing Apache log rotation on the staging web server to ensure logs are managed correctly and that the httpd service reloads cleanly after rotation. Together, these efforts establish a stable monitoring baseline, improve operational visibility, and support proactive system management.

The output shows the RPM transaction completing without errors, followed by the installation of check-mk-agent-2.3.0p2-1.noarch and its dependency wget. Systemd components for the agent are deployed and enabled, including check-mk-agent-async.service, check-mk-agent.socket, and cmk-agent-ctl-daemon.service. The agent controller is initialized, a dedicated cmk-agent user account is created or updated, and all services are activated and linked into the appropriate system targets.

A warning indicates the agent is currently operating in insecure mode, with a note that registration via cmk-agent-ctl register can be used to secure the connection. Final verification confirms the packages are installed, and the process completes successfully, returning to the shell prompt with no errors.

```
egarrido@dev-app-eg3:~  
Total 700 kB/s | 784 kB 00:01  
Running transaction check  
Transaction check succeeded.  
Running transaction test  
Transaction test succeeded.  
Running transaction  
  Preparing : 1/1  
Running scriptlet: check-mk-agent-2.3.0p2-1.noarch 1/2  
  Installing : check-mk-agent-2.3.0p2-1.noarch 1/2  
  Installing : wget-1.21.1-8.el9.x86_64 2/2  
Running scriptlet: check-mk-agent-2.3.0p2-1.noarch 2/2  
  
Deploying agent controller: /usr/bin/cmk-agent-ctl  
Deploying systemd units: check-mk-agent-async.service check-mk-agent.socket check-mk-agent@.service cmk-agent-ctl-daemon.service  
Deployed systemd  
Creating/updating cmk-agent user account ...  
  
WARNING: The agent controller is operating in an insecure mode! To secure the connection run `cmk-agent-ctl register`.  
  
Activating systemd unit 'check-mk-agent-async.service' ...  
Created symlink /etc/systemd/system/multi-user.target.wants/check-mk-agent-async.service → /usr/lib/systemd/system/check-mk-agent-async.service.  
Activating systemd unit 'check-mk-agent.socket' ...  
Created symlink /etc/systemd/system/sockets.target.wants/check-mk-agent.socket → /usr/lib/systemd/system/check-mk-agent.socket.  
Activating systemd unit 'cmk-agent-ctl-daemon.service' ...  
Created symlink /etc/systemd/system/multi-user.target.wants/cmk-agent-ctl-daemon.service → /usr/lib/systemd/system/cmk-agent-ctl-daemon.service.  
  
Running scriptlet: wget-1.21.1-8.el9.x86_64 2/2  
Verifying : wget-1.21.1-8.el9.x86_64 1/2  
Verifying : check-mk-agent-2.3.0p2-1.noarch 2/2  
  
Installed:  
  check-mk-agent-2.3.0p2-1.noarch wget-1.21.1-8.el9.x86_64  
  
Complete!  
[egarrido@dev-app-eg3 ~]$ |
```

This image shows the CheckMK web interface under Setup → Hosts, displaying the host inventory for the procore – Local site procore monitoring site.

The hosts table lists multiple systems with their hostnames, IPv4 addresses, and monitoring status. Entries include several dev-app-* and stage-web-* servers, each configured to use the CheckMK agent. Tags visible on the hosts indicate address_family: ipv4-only and agent: cmk-agent, confirming agent-based monitoring is enabled. Authentication keys are present for each host, showing they are registered with the local CheckMK site.

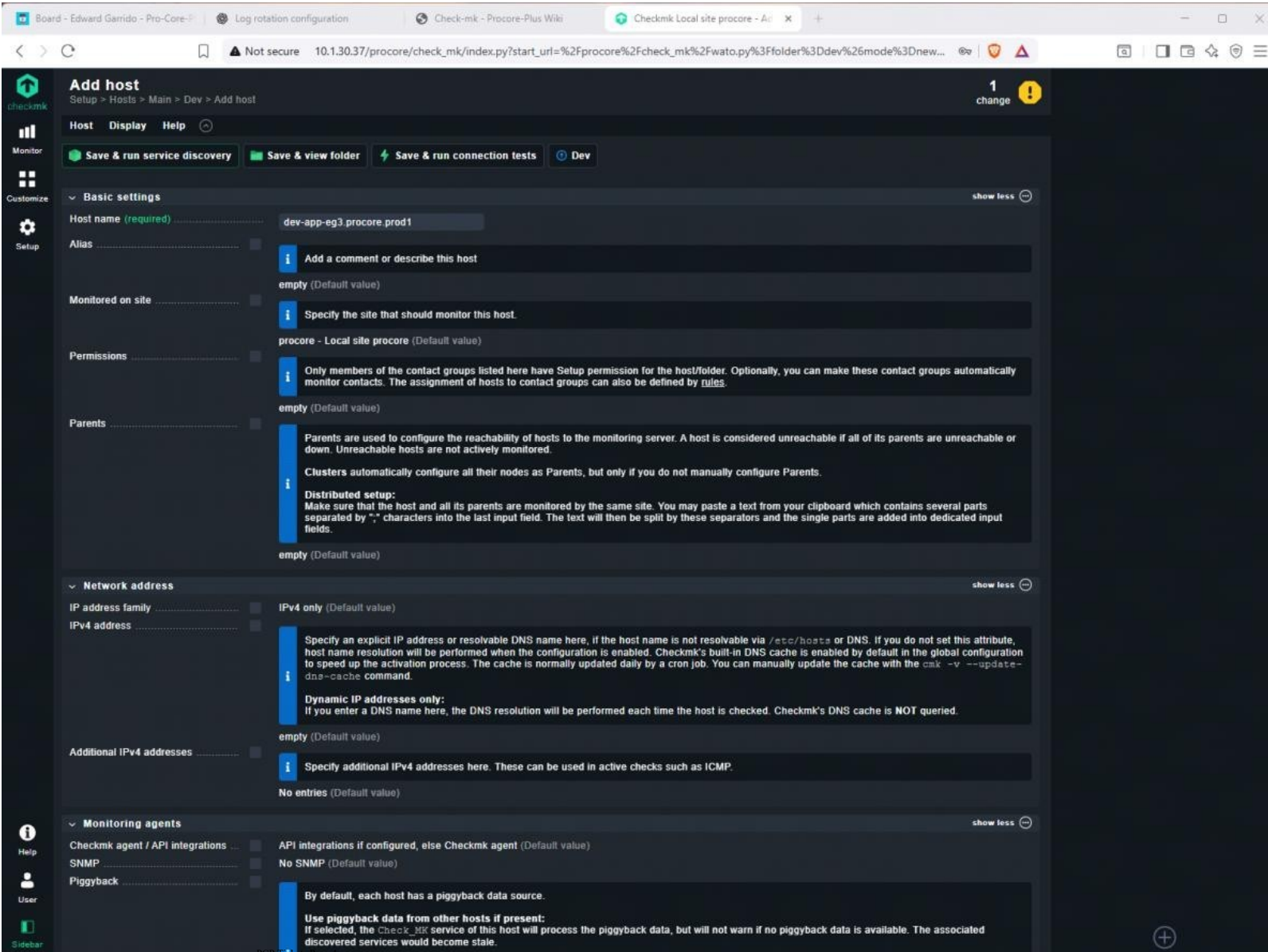
At the top, the interface indicates 178 hosts in the Dev folder, with filtering and host management options such as Add host and Add folder available. A notification badge shows 1 pending change, meaning configuration changes have been made and are ready to be activated. Overall, the view confirms that the development and staging servers have been successfully added to CheckMK and are centrally managed

The screenshot shows the CheckMK web interface for the 'procore - Local site procore' monitoring site. The 'Hosts' page is active, displaying a list of 178 hosts in the 'Dev' folder. The interface includes a sidebar with navigation options like Monitor, Customize, and Setup. A notification badge in the top right corner indicates 1 pending change. The main content area shows a table of hosts with columns for Actions, Host name, Alias, IPv4 address, Monitored on site, Auth, Tags, and Explicit labels. The table lists various development and staging servers, each with a unique hostname, alias, and IPv4 address. The 'Monitored on site' column shows that all listed hosts are monitored by the local site. The 'Auth' column displays authentication keys for each host. The 'Tags' column shows that all hosts are tagged with 'address_family: ip-v4-only' and 'agent: cmk-agent'. The 'Explicit labels' column is currently empty.

Actions	Host name	Alias	IPv4 address	Monitored on site	Auth	Tags	Explicit labels
[icon]	dev-app-da.procore.prod1		10.1.31.10	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	dev-app-gy.procore.prod1		10.1.30.169	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	dev-app-np.procore.prod1		10.1.31.250	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	dev-app-sdreto		10.1.30.144	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	dev-app-sp.procore.prod1	dev-app-sd	10.1.30.130	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	dev-app-ld		10.1.31.163	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	dev-app-th.procore.prod1		10.1.30.156	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	dev-preformance-hd.procore.prod1		10.1.31.158	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	stage-web-da.procore.prod1		10.1.31.12	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	stage-web-ef.procore.prod1		10.1.31.35	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	stage-web-gy.procore.prod1		10.1.30.178	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	
[icon]	stage-web-np.procore.prod1		10.1.31.252	procore - Local site procore	[key]	address_family: ip-v4-only agent: cmk-agent checkmk-agent checkmk-agent ... (show all)	

The CheckMK “Add host” configuration screen is shown under Setup → Hosts → Dev, where new system is being prepared for monitoring. The host name is set to dev-app-eg3.procore.prod1, and it is assigned to the procore – Local site procore monitoring site. Default permissions are applied, with no custom contact groups or parent hosts defined.

The network configuration specifies IPv4-only addressing, relying on automatic name resolution via CheckMK’s DNS cache, with no additional IPv4 addresses configured. Monitoring is set to use the CheckMK agent by default, with SNMP disabled and piggyback support available but not explicitly configured. Action buttons at the top allow saving the host, running service discovery, and executing connection tests, and a pending change indicator confirms the configuration is ready to be activated.



Service discovery for dev-app-eg3.procore.prod1 completed successfully, with the CheckMK agent responding OK. The host is identified as a Linux VM running CentOS Stream 9, and 156 services were discovered but are not yet committed to monitoring.

Core checks such as CPU load, CPU utilization, disk I/O, and the root filesystem (/) are detected and reporting OK. Pending changes indicate the services are ready to be accepted and activated.

Services of host dev-app-eg3.procore.prod1 2 changes

Setup > Hosts > Main > Dev > Properties of host dev-app-eg3.procore.prod1 > Services of host dev-app-eg3.procore.prod1

Actions Host Settings Display Help

✓ Accept all ⚠ Rescan ➕ Monitor undecided services ➖ Remove vanished services ⓘ Properties of host dev-app-eg3.procore.prod1

✓ All datasources are OK

- OK [agent]: Success
- OK [piggyback]: Success (but no data found for this host)

ⓘ Changed services: 0 | Undecided services: 156 | Vanished services: 0 | New host labels: 6 | Vanished host labels: 0 | Changed host labels: 0

▼ **Discovered host labels (6)**

Status	Host labels	Check plug-in
New	cmk/device_type:vm	labels
	cmk/os_family:linux	check_mk
	cmk/os_name:CentOS Stream	check_mk
	cmk/os_platform:centos	check_mk
	cmk/os_type:linux	check_mk

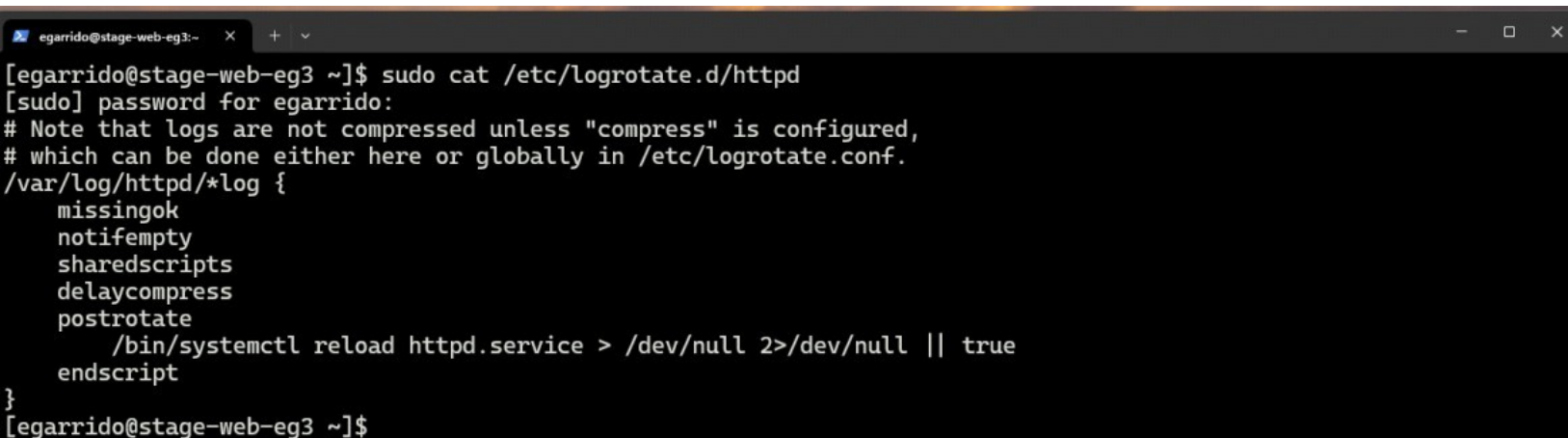
▼ **Undecided services - currently not monitored (156)**

ⓘ These services have been found by the service discovery but are not yet added to the monitoring. You should either decide to monitor them or to permanently disable them. If you are sure that they are just transitional, just leave them until they vanish.

	State	Service	Summary
⊞	OK	Check_MK Agent	Version: 2.3.0p2, OS: linux, TLS is not activated on monitored host (see def Agent plug-ins: 0, Local checks: 0)
⊞	OK	CPU load	15 min load: 0.01, 15 min load per core: 0.01 (1 cores)
⊞	OK	CPU utilization	Total CPU: 1.18%
⊞	OK	Disk IO SUMMARY	Initializing counters
⊞	OK	Filesystem /	Initialized: '1.delta'

Help User Sidebar

The output shows the Apache (httpd) log rotation configuration on stage-web-eg3. Logs under /var/log/httpd/*.log are managed by logrotate with safeguards like missingok and notifempty, shared scripts enabled, and delayed compression. After rotation, the configuration triggers a graceful reload of the httpd service using systemctl reload httpd.service, ensuring logging continues without downtime.

A terminal window with a dark background and light text. The window title is 'egarrido@stage-web-eg3:~'. The user has run 'sudo cat /etc/logrotate.d/httpd'. The output shows the logrotate configuration for httpd logs, including options like missingok, notifempty, sharedscripts, delaycompress, and postrotate, which triggers a systemctl reload of httpd.service.

```
egarrido@stage-web-eg3 ~]$ sudo cat /etc/logrotate.d/httpd
[sudo] password for egarrido:
# Note that logs are not compressed unless "compress" is configured,
# which can be done either here or globally in /etc/logrotate.conf.
/var/log/httpd/*.log {
    missingok
    notifempty
    sharedscripts
    delaycompress
    postrotate
        /bin/systemctl reload httpd.service > /dev/null 2>/dev/null || true
    endscript
}
egarrido@stage-web-eg3 ~]$
```

The command output confirms the CheckMK agent RPM was successfully downloaded on stage-web-eg3 using wget. The system connected to the CheckMK server, received a 200 OK response, and saved check-mk-agent-2.3.0p2-1.noarch.rpm locally with no errors, indicating the agent package is ready for installation.

```
egarrido@stage-web-eg3:~$ wget http://10.1.30.37/procore/check_mk/agents/check-mk-agent-2.3.0p2-1.noarch.rpm
--2025-10-04 18:41:59-- http://10.1.30.37/procore/check_mk/agents/check-mk-agent-2.3.0p2-1.noarch.rpm
Connecting to 10.1.30.37:80 ... connected.
HTTP request sent, awaiting response... 200 OK
Length: 4746126 (4.5M) [application/x-rpm]
Saving to: 'check-mk-agent-2.3.0p2-1.noarch.rpm.1'

check-mk-agent-2.3.0p2-1.noa 100%[=====>] 4.53M --KB/s in 0.08s

2025-10-04 18:41:59 (54.1 MB/s) - 'check-mk-agent-2.3.0p2-1.noarch.rpm.1' saved [4746126/4746126]

[egarrido@stage-web-eg3 ~]$
```

The CheckMK “Add host” page shows the staging server stage-web-eg3.procore.prod1 being configured for monitoring in the Dev folder. The host is assigned to the procore – Local site procore site with default permissions and no parent relationships defined.

Network settings are configured for IPv4 only, with an explicit IPv4 address entered, while monitoring is set to use the CheckMK agent with SNMP disabled. Action buttons at the top allow saving the host, running service discovery, and testing connectivity, confirming the staging server is ready to be added and monitored.

The screenshot displays the 'Add host' configuration page in the CheckMK web interface. The page is titled 'Add host' and shows the configuration for a new host named 'stage-web-eg3.procore.prod1'. The configuration is organized into several sections:

- Basic settings:** Includes fields for Host name (required), Alias, Monitored on site, Permissions, and Parents. The Host name is set to 'stage-web-eg3.procore.prod1'. The Monitored on site is set to 'procore - Local site procore'. The Permissions and Parents fields are empty.
- Network address:** Includes fields for IP address family (set to 'IPv4 only') and IPv4 address (set to '10.1.31.136'). There is also a field for Additional IPv4 addresses, which is currently empty.
- Monitoring agents:** Includes fields for Checkmk agent / API integrations (set to 'API integrations if configured, else Checkmk agent'), SNMP (set to 'No SNMP'), and Piggyback (set to 'By default, each host has a piggyback data source.').

The page also features a sidebar on the left with navigation options: Monitor, Customize, Setup, Help, and User. The top of the page shows the CheckMK logo and the title 'Add host'. The bottom of the page has a 'Sidebar' label.

The Dev hosts view confirms that dev-app-eg3.procore.prod1 has been successfully added to CheckMK. The host is registered with its IPv4 address, monitored on the procore – Local site procore, and authenticated correctly.

Tags show IPv4-only addressing and agent-based monitoring (cmk-agent), indicating the CheckMK agent is properly configured and associated with the host. The filtered results display the host as active and ready for monitoring within the Dev environment.

The screenshot shows the Checkmk web interface. The browser address bar indicates the URL: `10.1.30.37/procore/check_mk/index.py?start_url=%2Fprocore%2Fcheck_mk%2Fwato.py%3Fcsrf_token%3D0050d394-754...`. The interface is titled "Dev" and shows the "Hosts" view. The breadcrumb navigation is "Setup > Hosts > Main > Dev". The status "No pending changes" is displayed. The "Hosts" table shows one host:

Hosts	Folder	Related	Display	Help
dev-app-eg3.procore.prod1				

Below the table, the "Results: 1" and "0/180 hosts" are shown. The "Hosts" table has the following columns: Actions, Host name, IPv4 address, Monitored on site, Auth, Tags, and Explicit labels. The host "dev-app-eg3.procore.prod1" has the following details:

- Host name: dev-app-eg3.procore.prod1
- IPv4 address: 10.1.31.124
- Monitored on site: procore - Local site procore
- Auth: (key icon)
- Tags: address_family:ip-v4-only, agent:cmk-agent, checkmk-agent:checkmk-agent

The Dev hosts view confirms that stage-web-eg3.procore.prod1 has been successfully added to CheckMK. The host is registered with its IPv4 address, monitored on the procore – Local site procore, and authenticated correctly.

Tags indicate IPv4-only addressing and agent-based monitoring (cmk-agent), confirming the CheckMK agent is installed and associated with the staging server.

checkmk

Monitor

Customize

Setup

Board - Edward Garrido - Pro-Core-Plus

Log rotation configuration

Check-mk - Procore-Plus Wiki

Checkmk Local site procore - Dev

10.1.30.37/procore/check_mk/index.py?start_url=%2Fprocore%2Fcheck_mk%2Fwato.py%3Fcsrf_token%3D0050d394-754...

Not secure

Dev

Setup > Hosts > Main > Dev

No pending changes

Hosts

Folder

Related

Display

Help

stage-web-eg3.procore.prod1

Add host

Add folder

Main

Results: 1

0/180 hosts

Actions	Host name	IPv4 address	Monitored on site	Auth	Tags	Explicit labels
	stage-web-eg3.procore.prod1	10.1.31.136	procore - Local site procore		address_family:ip-v4-only agent:cmk-agent checkmk-agent:checkmk-agent ... (show all)	

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Summary

Linux development and staging servers were successfully integrated into CheckMK using agent-based monitoring. The CheckMK agent was downloaded, installed, and verified on each system, with connectivity to the monitoring site confirmed and hosts added under the appropriate environment.

Service discovery identified core system checks such as CPU load, CPU utilization, disk I/O, and filesystem usage, along with accurate host labels for Linux virtual machines running CentOS Stream 9. Supporting configurations, including Apache log rotation on the staging web server, were reviewed to ensure stable operations. Overall, monitoring coverage and system visibility were improved across both environments.