



NPD Config Mode Command Reference

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node-problem-detector agent

Enable Node Problem Detector (NPD), the diagnostic tool, to identify and report problems that may impact node performance.

Command Modes	Exec
Syntax Description	<code>node-problem-detector agent enabled</code>
Usage Guidelines	<p>This command enables NPD with default configurations and built-in monitoring rules for detecting well-known issues. By default NPD is disabled.</p> <p>When the NPD is enabled, it is easy to monitor and manage the health of all nodes on the cluster.</p>

node-problem-detector agent exporters

Configure the Node Problem Detector (NPD) exporter definitions.

`node-problem-detector agent exporters { k8s apiserver-uri-override string | prometheus port port_number }`

`no node-problem-detector agent exporters { k8s apiserver-uri-override string | prometheus port port_number }`

Syntax Description	<table><tr><td><code>k8s apiserver-uri-override <i>string</i></code></td><td>Configure the custom URI that is used to connect to the Kubernetes API server. The custom URI can be an alphanumerical string.</td></tr><tr><td><code>prometheus port <i>port_number</i></code></td><td>Specify the port number of Prometheus exporter. Port number is an integer from 0 to 65535.</td></tr></table>	<code>k8s apiserver-uri-override <i>string</i></code>	Configure the custom URI that is used to connect to the Kubernetes API server. The custom URI can be an alphanumerical string.	<code>prometheus port <i>port_number</i></code>	Specify the port number of Prometheus exporter. Port number is an integer from 0 to 65535.
<code>k8s apiserver-uri-override <i>string</i></code>	Configure the custom URI that is used to connect to the Kubernetes API server. The custom URI can be an alphanumerical string.				
<code>prometheus port <i>port_number</i></code>	Specify the port number of Prometheus exporter. Port number is an integer from 0 to 65535.				

Command Default	NPD functionality is disabled.				
Command Modes	Global configuration				
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>2025.02.1</td><td>This command was introduced.</td></tr></table>	Release	Modification	2025.02.1	This command was introduced.
Release	Modification				
2025.02.1	This command was introduced.				
Usage Guidelines	Use this command to enable the NPD tool to monitor the health of nodes within the cluster.				

Example

This example shows how to configure the NPD in the Kubernetes environment.

```
node-problem-detector agent exporters k8s apiserver-uri-override http://example:8443
```

node-problem-detector agent monitors

Configure the Node Problem Detector (NPD) monitor definitions.

node-problem-detector agent monitors *monitor_name* { **custom** | **filelog** | **journald** | **ksmg** }

no node-problem-detector agent monitors

Syntax Description	<table><tr><td>monitors <i>monitor_name</i></td><td>Configure the monitor name that is used as the source value for reporting the node problems.</td></tr><tr><td>custom</td><td>Specify to use custom plugin.</td></tr><tr><td>filelog</td><td>Specify to use filelog plugin.</td></tr><tr><td>journald</td><td>Specify to use journald plugin.</td></tr><tr><td>ksmg</td><td>Specify to use ksmg plugin.</td></tr></table>	monitors <i>monitor_name</i>	Configure the monitor name that is used as the source value for reporting the node problems.	custom	Specify to use custom plugin.	filelog	Specify to use filelog plugin.	journald	Specify to use journald plugin.	ksmg	Specify to use ksmg plugin.
monitors <i>monitor_name</i>	Configure the monitor name that is used as the source value for reporting the node problems.										
custom	Specify to use custom plugin.										
filelog	Specify to use filelog plugin.										
journald	Specify to use journald plugin.										
ksmg	Specify to use ksmg plugin.										
Command Default	NPD functionality is disabled.										
Command Modes	Global configuration										
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>2025.02.1</td><td>This command was introduced.</td></tr></table>	Release	Modification	2025.02.1	This command was introduced.						
Release	Modification										
2025.02.1	This command was introduced.										
Usage Guidelines	Use this command to enable the NPD tool to monitor the health of nodes within the cluster.										

Example

This example shows how to configure the NPD monitor in the Kubernetes environment.

```
node-problem-detector agent monitors test
```

node-problem-detector agent exporters k8s

Configure the K8s exporter to enable communication with the Kubernetes API server for monitoring resources.

node-problem-detector agent exporters k8s apiserver-uri-override *uri_string*

Syntax Description	<div><div><div>apiserver-uri-override</div><div><i>uri_string</i></div></div><div><div>This keyword allows you to specify a custom URI for connecting to the API server.</div><div>This URI can include the IP address, port, and other options needed for the connection.</div><div>If you are managing multiple clusters and need NPD to export problems to a centralized API server, this override is essential.</div></div></div>					
Command Default	None					
Command Modes	Global configuration mode					
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>Release 2025.02.1</td><td>This command was introduced.</td></tr></table>		Release	Modification	Release 2025.02.1	This command was introduced.
Release	Modification					
Release 2025.02.1	This command was introduced.					
Usage Guidelines	This configuration must be performed to enable communication with the Kubernetes API server.					
Usage Guidelines						

node-problem-detector agent exporters prometheus

Configure the Node Problem Detector to act as an agent that exports node health metrics to Prometheus.

node-problem-detector agent exporters prometheus port *port_number*

Syntax Description	port <i>port_number</i> Specify the port to bind the Prometheus scrape endpoint. The default value of port number is 20257. Use 0 to disable.
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Command Default	None
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Command Modes	Global configuration mode
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Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>Release 2025.02.1</td><td>This command was introduced.</td></tr></table>	Release	Modification	Release 2025.02.1	This command was introduced.
Release	Modification				
Release 2025.02.1	This command was introduced.				

Usage Guidelines	This command is used to set up Node Problem Detector to work as an agent that collects node health data and exports it to Prometheus for monitoring and alerting purposes. It is an essential part of maintaining the health and reliability of Kubernetes clusters in production environments.
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Example

The following example shows the configuration of port to bind the Prometheus scrape endpoint.

```
node-problem-detector agent exporters prometheus port 8080
```