



nodewatchdog events

ONTAP 9.15.1 EMS reference

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nodewatchdog events

nodewatchdog.config events

nodewatchdog.config.invalid

Severity

ERROR

Description

This message occurs when `bootarg.nodewatchdog.level` is set to an invalid value. This can only be done manually. When an invalid value is set, Node Watchdog reverts to the default behavior.

Corrective Action

Set `bootarg.nodewatchdog.level` to a valid value at the `LOADER>` prompt, or modify the value by using the `"system node watchdog modify"` command.

Syslog Message

The value of `bootarg.nodewatchdog.level` is set to an invalid value, "%s." Node Watchdog reverted to the default behavior (%s).

Parameters

bootarg (STRING): Value of `bootarg.nodewatchdog.level`.

defaultVal (STRING): Default value of `bootarg.nodewatchdog.level`.

nodewatchdog.gfc events

nodewatchdog.gfc.too.long

Severity

ALERT

Description

This message occurs when the storage system is low in networking buffers (mbuf) for longer than the duration threshold, which indicates abnormal circumstances. When this happens, CLI commands might hang, and clients could experience timeouts.

Corrective Action

If CLI commands are responding slowly or clients are timing out, reboot the node using the `"reboot -node [node] -dump true"` option. Also call the support team to investigate further, because this is an abnormal circumstance that might recur if not addressed. Contact NetApp technical support.

Syslog Message

Networking buffer depletion detected. Consumption exceeded %d%% in use and did not recede to %d%% for %d seconds.

Parameters

enter_percentage (INT): Percentage of in-use mbufs necessary to enter the flow control state.

exit_percentage (INT): Percentage of in-use mbufs necessary to exit the flow control state.

duration (INT): Duration for which there is a scarcity of available mbufs.

nodewatchdog.node events

nodewatchdog.node.failure

Severity

EMERGENCY

Description

This message occurs when Data ONTAP® experiences a prolonged outage of internal services critical to continued data service. The node experiencing this failure might operate in a degraded mode until the condition is addressed. Data ONTAP will attempt to recover by restarting the affected process.

Corrective Action

The affected process may produce a core file which can be analyzed. Contact NetApp technical support if the condition persists and possible analysis of the core file.

Syslog Message

Data ONTAP has experienced a serious internal error: %s. This might cause the node experiencing the problem to become unresponsive to data access.

Parameters

condition (STRING): Condition that caused the failure.

diagnosis (STRING): List of system diagnoses that could cause node watchdog issues.

nodewatchdog.node.longreboot

Severity

ALERT

Description

This message occurs when a node fails to reboot within the configured time allowed for rebooting.

Corrective Action

Contact NetApp technical support.

Syslog Message

Data ONTAP has experienced a serious internal error. The node experiencing this problem is unable to reboot within it's allotted time of %d seconds causing it to be unavailable. The node has been panicked to enable it to recover.

Parameters

timeout (INT): The time in seconds within which reboot did not complete.

nodewatchdog.node.panic

Severity

ALERT

Description

This message occurs when Data ONTAP® experiences a prolonged outage of internal services critical to continued data service. The node has been restarted to recover from the condition.

Corrective Action

Contact NetApp technical support for additional assistance.

Syslog Message

Data ONTAP has experienced a serious internal error: %s. This might cause the node experiencing the problem to become unresponsive to data access. %s

Parameters

condition (STRING): Condition that caused the failure.

action (STRING): Automatic corrective action taken (or why avoided) as a result of detecting this condition.

diagnosis (STRING): List of system diagnoses that could cause node watchdog issues.

nodewatchdog.node.ucore.hung

Severity

ALERT

Description

This message occurs when a node fails to generate an application core within the time allotted for application coredump due to a serious internal error. The node is panicked to recover from the internal error.

Corrective Action

Contact NetApp technical support.

Syslog Message

Unable to generate an application core for %s (pid %d) within the allotted time of %d seconds causing the application to become unavailable. The node has been panicked to recover.

Parameters

process_name (STRING): Name of the application that failed to generate core.

process_id (INT): PID of the application that failed to generate core.

timeout (INT): Time in seconds within which the application coredump did not complete.

nodewatchdog.resrc events

nodewatchdog.resrc.alloc.failure

Severity

ALERT

Description

This message occurs when a critical system resource required for Data ONTAP® to continue serving data cannot be allocated for an extended period of time. Data ONTAP might operate in a degraded mode.

Corrective Action

If Data ONTAP operates in a degraded mode, reboot the node using the "-dump true" option. Contact NetApp technical support. When Node Watchdog is configured to "node_restart", Data ONTAP will detect and recover from this condition automatically.

Syslog Message

Resource allocation failures detected for %s. The percentage of %d allocation failure attempts were met or exceeded for %d seconds.

Parameters

resource (STRING): Type of resource that cannot be allocated.

percentage (INT): Failure percentage threshold.

duration (INT): Duration of the resource allocation failure.

diagnosis (STRING): List of system diagnoses that could cause node watchdog issues.

nodewatchdog.resrc.lng.running.crit

Severity

ALERT

Description

This message occurs when the count of certain critical resources internal to Data ONTAP® are consumed with long running operations. When this happens, Data ONTAP might operate in a degraded mode.

Corrective Action

If Data ONTAP operates in a degraded mode, reboot the node using the "-dump true" option. Contact NetApp technical support. When Node Watchdog is configured to "node_restart", Data ONTAP will detect and recover from this condition automatically.

Syslog Message

Long running %s detected. Exceeded threshold of %d%% for %d seconds.

Parameters

resource (STRING): Resource that is consumed with long running operations.

percentage (INT): Percentage of the long running resource.

duration (INT): Duration for which the resources were long running.

nodewatchdog.svc events

nodewatchdog.svc.rpc.noresp

Severity

ALERT

Description

This message occurs when a service critical to data access fails to respond to service monitoring and is restarted. Data ONTAP® might have experienced a serious error and might operate in a degraded mode.

Corrective Action

If the message reports that the service has "restarted" then no action is required. If the status is "not restarted" or "unsuccessfully restarted," then reboot the node using the "system node reboot" command with the "-dump true" option, and then contact NetApp technical support.

Syslog Message

The %s service internal to Data ONTAP that is required for continuing data service was unavailable. The service failed, but was %s.

Parameters

service (STRING): Service that failed.

restarted (STRING): Whether the service was restarted. Possible values are "restarted," "not restarted," and "unsuccessfully restarted."

diagnosis (STRING): List of system diagnoses that could cause node watchdog issues.

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