kern events

ONTAP EMS reference

NetApp
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kern events

kern.cron events

kern.cron.dstError

Severity

ERROR

Description

This event is issued when the kernel cron daemon is unable to reschedule an internal process due to an error in handling of daylight savings time.

Corrective Action

(None).

Syslog Message

Daylight Saving Time change caused %s to be scheduled at an invalid time could not reschedule it, deleting further scheduling

Parameters

owner (STRING): The name of the process that was supposed to be scheduled

kern.cron.reschedDst

Severity

NOTICE

Description

This event is issued when the kernel cron daemon reschedules an event to run at a newly scheduled time as a result of a daylight savings time change.

Corrective Action

(None).

Syslog Message

Daylight Savings Time change: rescheduling %s to run at %s

Parameters

owner (STRING): The name of the process that was scheduled
time (STRING): The text version of the time string at which the event was scheduled

kern.log events

kern.log.rotate

Severity

NOTICE

Description

This event is issued when the system messages log is rotated to a new name. This event will be the first event in the new message file. When in takeover mode, this event is also issued for the partner node.

Corrective Action

(None).

Syslog Message

System %s (ID %s) is running %s

Parameters

hostname (STRING): The host name of the appliance.
serialno (STRING): The serial number of the host.
short_version (STRING): The short version string of the OnTap kernel, in the form 'NetApp Release NNNN'.

kern.process events

kern.process.alloc.limit

Severity

NOTICE

Description

This message occurs when a process creation has the system close to the maximum limit for the number of processes. The system’s process counts and limits are included as part of this message.

Corrective Action

(None).

Syslog Message

Process creation by "%s" resulted in %d processes on the system. The system’s process limit is %d. The system’s SK process count is %d and the SK process limit is %d.

Parameters

process_name (STRING): Name of the process performing the process creation.
proc_count (INT): Current number of processes in the system.
proc_max_limit (INT): Maximum number of processes allowed by the system.
sk_proc_count (INT): Current number of SK processes in the system.
sk_proc_max_limit (INT): Maximum number of SK processes allowed by the system.

kern.rc events

kern.rc.errorMsg

Severity

NOTICE

Description

This event is issued when an error printf is issued by the kernel in the context of executing the /etc/rc file.

Corrective Action

(None).

Syslog Message

%s

Parameters

msg (STRING): The text of the message

kern.rc.msg

Severity

NOTICE

Description

This event is issued when a printf is issued by the kernel in the context of executing the /etc/rc file.

Corrective Action

(None).

Syslog Message

%s

Parameters

msg (STRING): The text of the message

kern.shutdown events

kern.shutdown

Severity

NOTICE

Description

This event is issued to indicate a pending shutdown is underway.

Corrective Action

(None).

Syslog Message

System shut down because : "%s".

Parameters

type (STRING): The type of shutdown (halt or reboot) that is underway.

kern.shutdown.cantDeleteEntry

Severity

ERROR

Description

This event is issued when we detect that a halt or reboot is about to occur but a registry entry cannot be deleted

Corrective Action

(None).

Syslog Message

(None).

Parameters

key (STRING): The registry key

kern.syslog events

kern.syslog.drops

Severity

ERROR

Description

This event is generated when we detect that syslog messages were dropped before being logged. Syslog messages may be dropped if one or more Data ONTAP subsystems are generating many syslog messages over short period of time. That can be an indicator that those subsystems are experiencing problems that need to be resolved.

Corrective Action

Look in the syslog messages file at the messages prior to this message. If they all seem to be coming from a common subsystem, it may indicate that there is a problem with that subsystem. Attempt to resolve the problem with that subsystem.

Syslog Message

Dropped %d syslog messages starting at %s due to lack of internal log buffers

Parameters

numDrops (INT): The number of messages that have been dropped.
timestamp (STRING): A timestamp that indicates the time when the syslog messages started being dropped.

kern.syslog.msg

Severity

NOTICE

Description

This event is generated when a kernel syslog message is detected.

Corrective Action

(None).

Syslog Message

%s

Parameters

msg (STRING): The text of the message
vfilerName (STRING): The name of the vfiler that generated the message

kern.syslogd events

kern.syslogd.error

Severity

ERROR

Description

This message occurs when an event is generated to log errors from the syslog daemon.

Corrective Action

(None).

Syslog Message

syslog daemon error %s.

Parameters

ErrMsg (STRING): Specific error generated by the syslog daemon.

kern.thread events

kern.thread.alloc.limit

Severity

NOTICE

Description

This message occurs when a thread creation has the system close to the maximum limit for the number of threads. The system’s SK and BSD thread counts and limits are included as part of this message.

Corrective Action

(None).

Syslog Message

Thread creation by "%s" resulted in %d SK threads and %d BSD threads on this system. The high watermark for thread count on this system is %d. The system’s SK thread limit is %d, BSD thread limit is %d.

Parameters

process_name (STRING): Name of the process performing the thread creation.
sk_proc_count (INT): Current number of SK threads in the system.
bsd_thread_count (INT): Current number of BSD threads in the system.
thread_count_highmark (INT): High watermark of thread count in the system, including both BSD and SK threads.
sk_proc_max_limit (INT): Maximum number of SK threads allowed by the system.
bsd_thread_max_limit (INT): Maximum number of BSD threads allowed by the system.

kern.timezone events

kern.timezone.change

Severity

NOTICE

Description

This message occurs when the configured time zone changes.

Corrective Action

(None).

Syslog Message

(None).

Parameters

old_tz (STRING): Previous time zone.
old_tz_offset (INT): Seconds east of UTC of the previous time zone.
new_tz (STRING): New time zone.
new_tz_offset (INT): Seconds east of UTC of the new time zone.

kern.uptime events

kern.uptime.filer

Severity

NOTICE

Description

This message occurs to display the uptime status of the controller. Typically, this message is generated once per hour.

Corrective Action

(None).

Syslog Message

%s

Parameters

msg (STRING): Text message describing the current status of the controller.
secs (LONGINT): Number of seconds since the controller was booted.
nfsOps (LONGINT): Number of NFS operations that have been performed.
cifsOps (LONGINT): Number of CIFS operations that have been performed.
httpOps (LONGINT): Number of HTTP operations that have been performed.
fcpOps (LONGINT): Number of FCP operations that have been performed.
iscsiOps (LONGINT): Number of iSCSI operations that have been performed.
nvmeFcOps (LONGINT): Number of NVMe/FC operations that have been performed.
nvmeTcpOps (LONGINT): Number of NVMe/TCP operations that have been performed.
nvmeRoceOps (LONGINT): Number of NVMe/RDMA over Converged Ethernet(RoCE) operations that have been performed.

kern.version events

kern.version.change

Severity

NOTICE

Description

This message occurs when you reboot your system with a version of the Data ONTAP® kernel that is different from the one you ran previously.

Corrective Action

(None).

Syslog Message

Data ONTAP kernel version was changed from %s to %s.

Parameters

oldver (STRING): Previous version of the Data ONTAP kernel.
newver (STRING): Current version of the Data ONTAP kernel.

kern.vm events

kern.vm.mmap.return

Severity

NOTICE

Description

This message occurs when an attempt to create a new mapping in the virtual address space of a process has failed.

Corrective Action

(None).

Syslog Message

mmap(2) by %s (pid %d) for size %ld failed: %s, limit %ld, error %d.

Parameters

process_name (STRING): Name of the process with the failed attempt.
process_id (INT): ID of the process with the failed attempt.
size (LONGINT): Size in bytes of the memory map attempt.
message (STRING): Details about the failed memory map attempt.
limit (LONGINT): Size in bytes of the process's virtual memory limit.
errno (INT): The error code returned to the process.

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