debug commands

Command reference

NetApp
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debug hwpmc create

Start a new HWPMC profile

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `debug hwpmc create` command is used to create a Hardware Performance Monitoring Counter profile.

Parameters

`-node {<nodename>|local}` - Node Name (privilege: advanced)

This parameter specifies the node for which the profile will be created.

`-name <text>` - Name of the HWPMC Profile (privilege: advanced)

This parameter specifies the name of the profile that will be created. The default name will be the date and time the profile was created, e.g. 2023_06_07-08_53_44_UTC.

`-counter <text>` - HWPMC Event Specification (privilege: advanced)

This parameter specifies the performance monitoring counter event to sample. The default counter is "UNHALTED-CORE-CYCLES".

`[-process <text>]` - Profile Specific Process (privilege: advanced)

This parameter specifies the process to sample; may be a non-negative integer denoting a specific process id, or a regular expression for selecting processes based on their names. This field is optional.

Examples

This example creates a hwpmc profile with default parameters.

```
cluster1::> debug hwpmc create -node node1
```

debug hwpmc delete

Delete or cancel a HWPMC profile

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `debug hwpmc delete` command allows the user to delete or cancel Hardware Performance Monitoring Counter profiles.

Parameters

-node {<nodename>|local} - Node Name (privilege: advanced)

This parameter specifies the node on which the profile was collected.

-name <text> - Name of the HWPMC Profile (privilege: advanced)

This parameter specifies the name of the profile that will be deleted.

Examples

The following example deletes a profile that was collected on node1:

```
cluster1::> debug hwpmc delete -node node1 -name 2023_06_06-08_53_44_UTC
```

debug hwpmc show

Display HWPMC profiles

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `debug hwpmc show` command displays a list of the current Hardware Performance Monitoring Counter profiles along with the state of each one.

Parameters

[-fields <fieldname>,…]

If you specify the `-fields <fieldname>, …` parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify.

| [-instance] (privilege: advanced) }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

[-node {<nodename>|local}] - Node Name (privilege: advanced)

This parameter selects the node from which the profiles are displayed.

[-name <text>] - Name of the HWPMC Profile (privilege: advanced)

This parameter specifies the name of the profile.

[-date <MM/DD/YYYY HH:MM:SS>] - Date of the HWPMC Profile (privilege: advanced)

This parameter filters the results to display profiles for a specific date or a date range.

[-status <State of HWPMC Profiles>] - Current Status of HWPMC Profile (privilege: advanced)

This parameter specifies the current state of the profile. The possible states are:

- running - Collecting hardware profiling data. The amount of time in this state is directly related to the `-duration` parameter used when creating the HWPMC profile.
- processing - The hardware profiling data is being processed. This typically takes several minutes to

complete, depending on the amount of data collected in the *running* state."

- complete - The profile is complete.
- failed - Creation of the profile failed. Use `debug hwpmc show -instance` for details.

[-status-message <text>] - Current Status Message (privilege: advanced)

This parameter displays extended status messages associated with each profile.

[-counter <text>] - HWPMC Event Specification (privilege: advanced)

This parameter specifies one or more performance counters to be displayed.

[-process <text>] - Profile Specific Process (privilege: advanced)

This parameter filters the output to show profiles associated with a specific process or process identifier.

Examples

The following example displays information about the profiles on a node:

```
cluster1::> debug hwpmc show -node node1
Node                 Profile Name              Status
-------------------- ------------------------- -----------
node1                2023_06_06-08_53_44_UTC   collecting
node1                2023_06_06-08_54_53_UTC   complete
```

debug nvme commands

debug nvme upgrade bypass-lif-state-check

Bypass the pre-takeover LIF state checks during ANDU

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

Before a node is taken over during an automated upgrade, there is a check to ensure each node with a mapped NVMe namespace has an online NVMe LIF. Without LIFs on each of these nodes, an outage is likely as nodes are restarted during the upgrade. If you do not care about an outage, or you know the current configuration will not cause one, use this command to bypass this check when the upgrade is resumed. This bypass is not persistent, and applies only to the node where the command is issued.

Examples

The following example disables the NVMe LIF checks during upgrade.

```
cluster1:*> debug nvme upgrade bypass-lif-state-check
```

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