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1 Configuring Process Restarting

1.1 Introduction

1.1.1 Overview

The command line interface (CLI) reboot process module (CMDK) provides a means of restarting a back-end process of a device on the CLI for users. Therefore, when the function of a service fails on a device, the user can restart a specified process of the member device in a specified slot on a specified device in a cluster rather than restart the device, to improve device availability.

The CMDK has the following features:

- Improve the device availability. When a process in a device becomes abnormal, users can manually restart a specified process.
- Support process restart in the virtual switching unit (VSU) environment. The CMDK can restart a specified process of the member device in a specified slot on a specified device. Therefore, users can restart a process on the master device or master supervisor module.

1.1.2 Principles

First, a process determines whether the current device is in the standalone or VSU environment. Then, the process sends a process kill message to a target node. After receiving the message, the target node restarts the whole process by running the command in the startup script.

1.2 Restrictions and Guidelines

Configuration commands are run on only the master device or master supervisor module. Other member devices do not have the permission to run the commands.

1.3 Configuration Task Summary

The RAS-CMDK configuration includes the following tasks: The following configuration tasks are optional. Configure the task as required.

- Restarting a Process of the Member Device in a Specified Slot on a Specified Device
- Starting a Process of the Member Device in a Specified Slot on a Specified Device
- Stopping a Process of the Member Device in a Specified Slot on a Specified Device
- Displaying Processes that can Be Restarted on the Member Device in a Specified Slot on a Specified Device

1.4 Configuring RAS-CMDK

1.4.1 Overview

The CLI CMDK provides a means of restarting a back-end process of a device on the CLI for users. Therefore, when the function of a service fails on a device, the user can restart a specified process of the member device in a specified slot on a specified device in a cluster rather than restart the device, to improve device availability.

1.4.2 Restarting a Process of the Member Device in a Specified Slot on a Specified Device

1. Overview

This section describes how to restart a specified process on a specified device.

2. Restrictions and Guidelines

Only valid processes excluded from the whitelist can be restarted.

3. Procedure

(1) Enter the privileged EXEC mode.

enable

(2) Restart a process of the member device in a specified slot on a specified device.

cmdk device *device-id* **slot** *slot-id* **module** *module-name* **restart**

1.4.3 Starting a Process of the Member Device in a Specified Slot on a Specified Device

1. Overview

This section describes how to start a specified process on a specified device.

2. Restrictions and Guidelines

Only valid processes can be started.

3. Procedure

(1) Enter the privileged EXEC mode.

enable

(2) Start a process of the member device in a specified slot on a specified device.

cmdk device *device-id* **slot** *slot-id* **module** *module-name* **start**

1.4.4 Stopping a Process of the Member Device in a Specified Slot on a Specified Device

1. Overview

This section describes how to stop a specified process on a specified device.

2. Restrictions and Guidelines

Only valid processes excluded from the whitelist can be stopped.

3. Procedure

(1) Enter the privileged EXEC mode.

enable

(2) Stop a process of the member device in a specified slot on a specified device.

cmdk device *device-id* **slot** *slot-id* **module** *module-name* **stop**

1.4.5 Displaying Processes that can Be Restarted on the Member Device in a Specified Slot on a Specified Device

1. Overview

This section describes how to display processes that can be restarted on the member device in a specified slot on a device.

2. Restrictions and Guidelines

The processes that can be restarted on the member device in a specified slot are displayed only on the master device.

3. Procedure

(1) Enter the privileged EXEC mode.

enable

(2) Display the processes that can be restarted on the member device in a specified slot on a specified device.

cmdk device *device-id* **slot** *slot-id* **detail**

1.5 Monitoring

Run the **debug** command to output debugging information.

⚠ Caution

The output debugging information occupies system resources. Therefore, disable the debugging function immediately after use.

Table 1-1 RAS-CMDK Monitoring

Command	Purpose
debug cmdk on	Enables the CMDK debugging mode.
debug cmdk off	Disables the CMDK debugging mode.