

How to use the cvm_shutdown script to shutdown or restart a CVM

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Summary: This article describes how to use the cvm_shutdown script.

Versions affected: ALL AOS Version

Troubleshooting

Infrastructure

Description:

The cvm_shutdown script signals HA when shutting down the CVM (Controller VM) to forward the storage traffic to another healthy CVM. Instead of using **sudo shutdown** or **sudo reboot** commands, this script should be used to minimize I/O hits in user VMs running on the present hypervisor host.

In AOS 5.20.1, 6.0.1 and later, if Genesis fails to set up HA routes to other nodes in the cluster, the script will not proceed with the shutdown. If you still want to shut down the CVM, use the **force_reboot** option.

Refer to [AHV Administration Guide: Verifying the Cluster Health](#) for instructions.

Solution:

Log on to the CVM as the "nutanix" user.

Usage:

```
cvm_shutdown [OPTIONS...] [TIME] [WALL...]
```

Shut down the system.

--help	Show this help
-H --halt	Halt the machine
-P --poweroff	Power-off the machine
-r --reboot	Reboot the machine
-h	Equivalent to --poweroff, overridden by --halt
-k	Don't halt/power-off/reboot, just send warnings

<code>--no-wall</code>	Don't send wall message before halt/power-off/reboot
<code>-c</code>	Cancel a pending shutdown

Notes:

- TIME may have different formats. The most common is simply the word "now", which will bring the system down immediately. Other valid formats are "+m", where m is the number of minutes to wait until shutting down, or "hh:mm", which specifies the time on a 24-hour clock.
- Logged-in users are warned by a message sent to their terminals. You may include an optional message (WALL) included with this. Messages can be sent without bringing the system down by using the -k option.
- If TIME is given, the command will remain in the foreground until the shutdown occurs. It can be cancelled by Control+C, or by another user using the -c option.
- The -r or -h option specifies a reboot or system halt, respectively. The -h option can be further modified with -H or -P to specify whether to halt the system or to power it off afterwards. The default is left up to the shutdown scripts.
- The script automatically puts the CVM into maintenance mode in AOS versions 5.17.1 and later.

The most common usage of the command is:

```
nutanix@cvm$ cvm_shutdown -P now
```

This will initiate the shutdown process on the CVM immediately.