

# View CPU Utilization on 300 Series Managed Switches using Command Line Interface

## Objectives

CPU utilization is a measure of workload on the CPU. This switch is able to track the CPU utilization and display the percentage of the capacity of the CPU that was used in the past five seconds, one minute, and five minutes.

This document explains how to enable the CPU utilization measuring service and view the CPU utilization on the 300 Series Switch.

## Applicable Devices

- 300 Series Switches

## Step-by-Step Procedure

**Note:** Enabling and viewing CPU utilization requires user privilege level 15.

### Enable CPU Utilization Measuring

```
C:\>telnet 192.168.1.254
```

Step 1. Using the command prompt, enter **telnet 192.168.1.254** to access the command line interface for this device on the default IP address.

```
User Name:cisco  
Password:*****
```

Step 2. Enter the **User Name** and **Password**.

**Note:** The default User Name is cisco and the default Password is cisco.

```
switch3ba618#config  
switch3ba618(config)#_
```

Step 3. Enter **config** to enter Global Configuration mode.

```
switch3ba618#config  
switch3ba618(config)#service cpu-utilization  
switch3ba618(config)#_
```

Step 4. Enter **service cpu-utilization** to enable cpu utilization measurement.

- Alternatively, enter **no service cpu-utilization** to disable cpu utilization measurement.

**Note:** CPU utilization service can only be enabled or disabled in Global Configuration Mode. If the command prompt host name does not end with (config)#, enter **config** to enter Global

Configuration Mode.

```
switch3ba618#config
switch3ba618(config)#service cpu-utilization
switch3ba618(config)#exit
switch3ba618#_
```

Step 5. Enter **exit** to exit Global Configuration mode.

```
switch3ba618#config
switch3ba618(config)#service cpu-utilization
switch3ba618(config)#exit
switch3ba618#copy running-config startup-config
Overwrite file [startup-config]? [Yes/press any key for no]...01-Sep-2011 08:39
:27 %COPY-I-FILECPY: Files Copy - source URL running-config destination URL flas
h://startup-config
01-Sep-2011 08:39:28 %COPY-N-TRAP: The copy operation was completed successfully
Copy succeeded
switch3ba618#_
```

Step 6. (Optional) Any settings changed will be lost if the switch loses power. To make the changes permanent enter **copy running-config startup-config** and enter **Yes** to copy the current configuration file to the startup configuration file.

```
switch3ba618#config
switch3ba618(config)#service cpu-utilization
switch3ba618(config)#exit
switch3ba618#copy running-config startup-config
Overwrite file [startup-config]? [Yes/press any key for no]...01-Sep-2011 08:39
:27 %COPY-I-FILECPY: Files Copy - source URL running-config destination URL flas
h://startup-config
01-Sep-2011 08:39:28 %COPY-N-TRAP: The copy operation was completed successfully
Copy succeeded
switch3ba618#exit
Connection to host lost.
```

Step 8. Enter **exit** again to end the session.

## View CPU Utilization

Step 1. Using the command prompt, enter **telnet 192.168.1.254** to access the command line interface for this device on the default IP address.

Step 2. Enter the **User Name** and **Password**.

```
switch3ba618#show cpu utilization
CPU utilization service is on.

CPU utilization
-----
five seconds: 1%; one minute: 3%; five minutes: 2%
switch3ba618#_
```

Step 3. Enter **show cpu utilization** to view CPU utilization in the past five seconds, one minute, and five minutes.

**Note:** The CPU utilization service must have been previously enabled for any measurements to be displayed.

**Note:** CPU utilization can only be viewed in Privileged EXEC Mode. If the command prompt host name ends with (config)#, enter **exit** to exit Global Configuration Mode and enter Privileged EXEC Mode. New sessions will be in Privileged EXEC Mode by default.

Step 4. Enter **exit** to end the session.