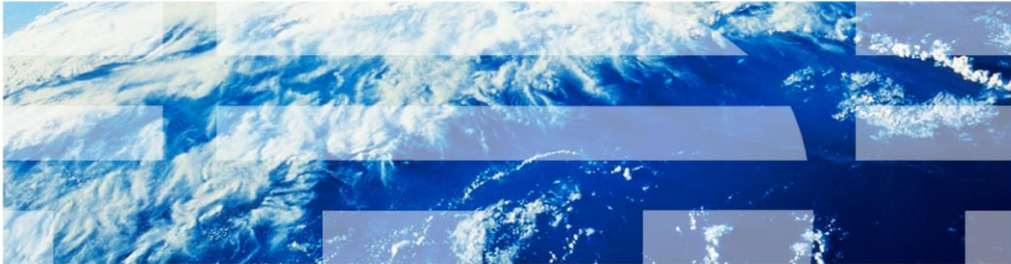


## IBM Tivoli Monitoring V6.2.2

Configure the Tivoli Monitoring for Power Systems  
CEC agent V6.2.2 interim feature 2 on VIOS



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IBM Tivoli® Monitoring V6.2.2, Configure the Tivoli Monitoring for Power Systems™ CEC agent V6.2.2 interim feature 2 on Virtual I/O Server (VIOS). In this module, you learn about the steps involved in configuring a Central Electronics Complex (CEC) agent.

## Assumptions

Before you proceed, the module designer assumes that you have the following knowledge and environment:

- Basic administration skills on Advanced Interactive eXecutive (AIX®) and Virtual I/O Server (VIOS)
- Knowledge of Tivoli Monitoring
- A Tivoli Monitoring environment that includes a Tivoli Monitoring Enterprise Server, a Tivoli Monitoring Portal Server, and a Tivoli Enterprise Portal desktop client

The lesson developer assumes that you have basic administration skills on VIOS and AIX, and knowledge of Tivoli Monitoring. He also assumes that you have a functioning Tivoli Monitoring environment that includes these items:

- Tivoli Enterprise Monitoring Server
- Tivoli Enterprise Portal Server
- Tivoli Enterprise Portal Client

## Objectives

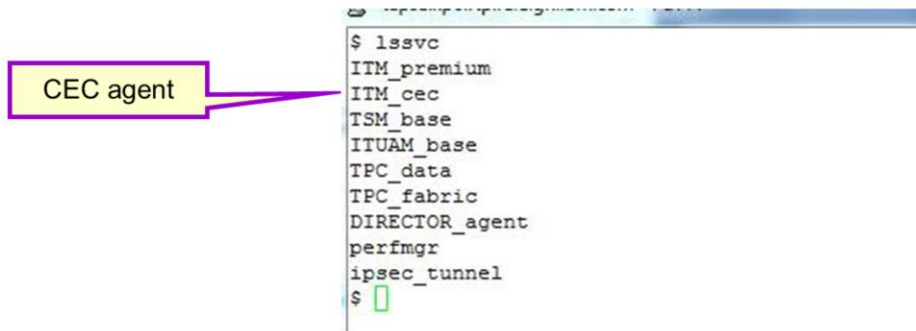
When you complete this module, you can perform these tasks:

- Configure the CEC monitoring agent on VIOS
- Start the CEC monitoring agent on VIOS
- View the CEC agent-obtained data on the Tivoli Enterprise Portal to monitor the availability and performance of the VIOS server

When you complete this module, you should be able to configure and start the CEC monitoring agent and connect to the Tivoli Enterprise Portal to view monitoring agent collected data.

## (1 of 4) Configuring the CEC agent process steps

- Log in as **padmin** to the VIOS system
- The command **lssvc** lists all of the Tivoli components that are installed on the system



```
$ lssvc
ITM_premium
ITM_cec
TSM_base
ITUAM_base
TPC_data
TPC_fabric
DIRECTOR_agent
perfmgrr
ipsec_tunnel
$
```

Configure Tivoli Monitoring for Power Systems CEC agent V6.2.2 interim feature 2 on VIOS

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The CEC agent comes pre-installed on VIOS. Log in as **padmin** to VIOS.

As the user **padmin**, run the command **lssvc** to list all the Tivoli components on the system. **ITM\_CEC** refers to the CEC agent.

## (2 of 4) Configuring the CEC agent process steps

### Step 1:

- Configure the CEC agent with the `cfgsvc` command. The syntax of the command is listed:
- `$cfgsvc ITM_cec -attr hostname=<address 1>, mirror=<address 2>, Restart_On_Reboot=<value 1> cec=<cec_name> managing_system=<hmc user>@<address 3> second_managing_system=<hmc user>@<address 4> DIRECTOR_HOST_ADDRESS=<director_hostname>, DIRECTOR_PORT_NUMBER=<port> DIRECTOR_AUTHENTICATION=<value 2>`

#### Where:

- *<address 1>* IP address or the host name of the Tivoli Enterprise Monitoring Server to which the CEC agent sends data.
- *<address 2>* IP address or the host name of the secondary Tivoli Enterprise Monitoring Server.
- *<cec\_name>* Name of the CEC that the agent is monitoring.
- *<value 1>* TRUE OR FALSE
  - TRUE = ITM\_cec restarts when the Virtual I/O Server restarts.
  - FALSE = ITM\_cec does not restart whenever the Virtual I/O Server restarts.
- *<hmc user>* The Hardware Management Console (HMC) user. It defaults to **hscroot** if it is not provided. The HMC user should have a minimum of HMC viewer permissions.
- *<address 3>* The IP address or the host name of the HMC to which the managed system connects.
- *<address 4>* The IP address, or the host name of the backup or secondary HMC.
- *<director\_hostname>* IP address, or host name of the IBM Systems Director Server to which to navigate with the IBM Systems Director workspace links. This field is optional.
- *<port>* Port number for connecting to the Systems Director. This field is optional.
- *<value 2>* **Yes** or **No**
  - Yes: Credentials for authenticating against the Systems Director is required.
  - No: Authentication is not required.

Note: The parameters must be specified in the order indicated.

Configure Tivoli Monitoring for Power Systems CEC agent V6.2.2 interim feature 2 on VIOS

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The configuration of the CEC agent is different on the VIOS Logical Partition (LPAR) compared to any AIX LPAR.

The CEC agent is configured with the `cfgsvc` command. Log in as the user **padmin** and run the command. The `cfgsvc` command and syntax are shown.

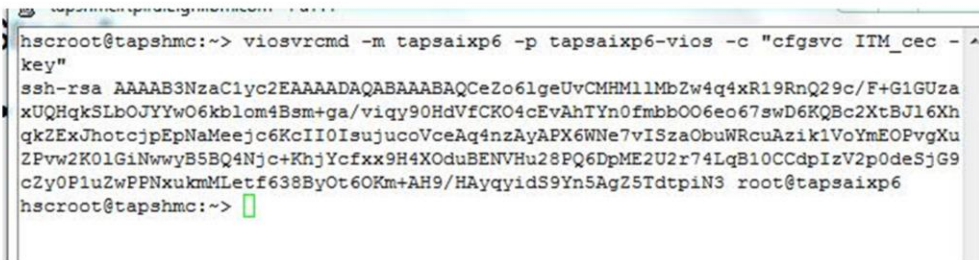
The `cfgsvc` command creates a key pair that can be used by the HMC to allow a connection from the VIOS on which the CEC agent is installed.

### (3 of 4) Configuring the CEC agent process steps

#### Step 2:

- Log in to the HMC as the HMC user used to configure the CEC agent
- To enable the CEC agent to communicate with the HMC, run this command

```
viosvr cmd -m managed_system_name -p vios_name -c "cfgsvc -key  
ITM_cec"
```



```
hscroot@tapshmc:~> viosvr cmd -m tapsaixp6 -p tapsaixp6-vios -c "cfgsvc ITM_cec -  
key"  
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCeZo6lgeUvCMHM1lMbZw4q4xR19RnQ29c/F+G1GUza  
xUQHqkSLbOJYYwO6kblom4Bsm+ga/viqy90HdVfCKO4cEvAhTYnOfmbbOO6eo67swD6KQBc2XtBJL6Xh  
qk2ExJhotcjpEpNaMeejc6KcII0IsujucoVceAq4nzAyAPX6WNe7vISzaObuWRcuAzik1VoYmEOPvgXu  
ZPvw2K0lGiNwwyB5BQ4Njc+KhjYcfxx9H4XOduBENVHu28PQ6DpME2U2r74LqB10CCdpIzV2p0deSjG9  
cZy0FluZwPPNxukmLetf638ByOt6OKm+AH9/HAYqyidS9Yn5Ag25TdtpiN3 root@tapsaixp6  
hscroot@tapshmc:~> █
```

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The HMC should be able to accept ssh connections from the VIOS LPAR.

The command **viosvr cmd** obtains the public key that was generated on the VIOS with the **cfgsvc** command.

Parameters for the command in the slide are described as:

**managed\_system\_name** is the name of the frame (CEC). ...

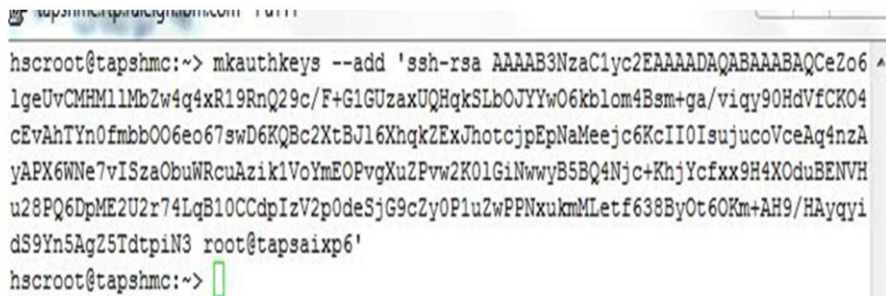
**vios\_name** is the name of the VIOS LPAR. ...

This step is unnecessary if the ssh credentials for connection between the agent system and the HMC have already been set up as part of configuring the CEC agent.

## (4 of 4) Configuring the CEC agent process steps

Authorize the HMC to accept ssh connections from the CEC agent system

```
mkauthkeys --add '<key>'
```



```
hscroot@tapshmc:~> mkauthkeys --add 'ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCeZo6 ^
lgeUvCMHM11MbZw4q4xR19RnQ29c/F+G1GUzaxUQHqkSLbOJYYw06kblom4Bsm+ga/viqy90HdVfCK04
cEvAhTYn0fmbb006e067swD6KQBc2XtBJl6XhqkZExJhotcjpEpNaMeejc6KcII0IsujucoVceAq4nzA
yAPX6WNNe7vISzaObuWRcuAzik1VoYmEOPvgXuZPvw2K01GiNwwyB5BQ4Njc+KhjYcfx9H4X0duBENVH
u28PQ6DpME2U2r74LqB10CCdpIzV2p0deSjG9cZy0P1uZwPPNxukmMLetf638ByOt60Km+AH9/HAYqyi
dS9Yn5AgZ5TdtpiN3 root@tapsaixp6'
hscroot@tapshmc:~> █
```

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The next step is to add the public key obtained from the **viosvr cmd** command as an authorized key.

## Verifying the connection to the HMC

To verify that the HMC connection is configured correctly, run the command

```
/usr/bin/ssh -l <hmc user> <hmc hostname> "lshmc -V | grep Version |  
cut -d: -f2" 2>/dev/null
```

```
hscroot tapshmc ~  
# /usr/bin/ssh -l hscroot tapshmc "lshmc -V | grep Version | cut -d: -f2" 2>/dev/null  
7  
#
```

The final step is to verify that the connection to the HMC has been established correctly. In order to verify that the agent can connect to the HMC, run the command from the VIOS LPAR as **root** user. The command must return the version of the HMC without prompting for a password.

The parameters for the command are listed:

- \* **hmc user** is the HMC user that was used to configure the CEC agent.
- \* **hmc hostname** is the IP address or the host name of the Hardware Management Console.



## Starting the CEC agent on VIOS

To start the CEC agent, as the user **padmin**, run the command `startsvc ITM_cec`

```
$ startsvc ITM_cec
Starting Base Monitoring Agent for CEC ...
Base Monitoring Agent for CEC started
$
```

The steps performed make the CEC agent ready to start. Start the agent with the **startsvc** command. After the agent starts, the agent should connect to the Tivoli Enterprise Monitoring Server. Then you can display the data obtained by the CEC agent on the Tivoli Enterprise Portal.

## Summary

Now that you completed this module, you can perform these tasks:

- Configure the CEC monitoring agent on VIOS
- Start the CEC monitoring agent on VIOS
- View the CEC agent-obtained data on the Tivoli Enterprise Portal to monitor the availability and performance of the VIOS server

Now that you have completed this module, you can configure and start the CEC monitoring agent on VIOS.

You can view the CEC agent-obtained data on the Tivoli Enterprise Portal and the data to monitor the details on the availability and performance of the VIOS LPAR.



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