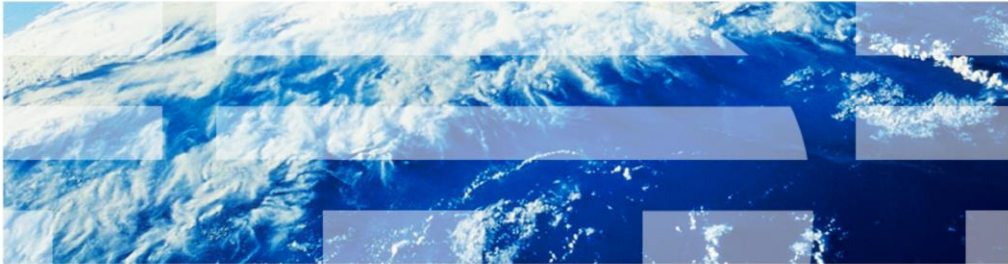


IBM Tivoli Monitoring V6.2.2

Configure the Tivoli Monitoring for Power Systems
VIOS 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™ VIOS agent V6.2.2 interim feature 2 on VIOS. In this module, you learn about the steps involved in configuring a VIOS agent.

Assumptions

Before you proceed, the module designer assumes that you have 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

The module developer assumes that you have basic administration skills on Virtual I/O Server (VIOS) and AIX and knowledge of Tivoli Monitoring. He also assumes that you have a functioning Tivoli Monitoring environment which includes the elements:

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

Objectives

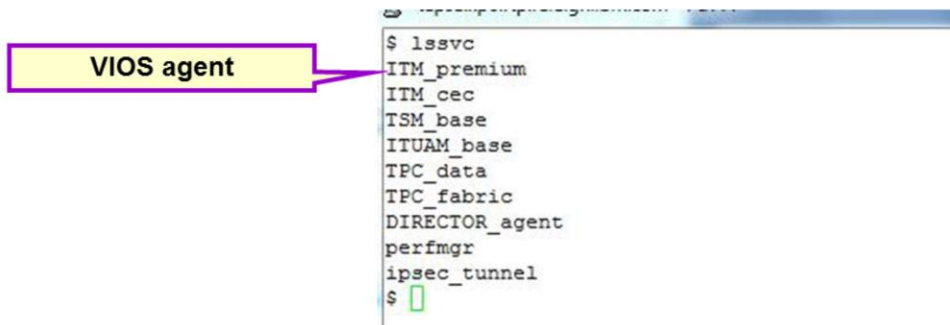
When you complete this module, you can perform these tasks:

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

When you complete this module, you can start the monitoring agent for VIOS and connect to the Tivoli Enterprise Portal to view data collected by the monitoring agent.

(1 of 4) Configuring the VIOS agent process steps

- Log in as **padmin**
- The command **lssvc** lists all the Tivoli components present on the VIOS system



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

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The VIOS agent comes pre-installed on VIOS. Log in as **padmin** to VIOS. As user **padmin**, run the command **lssvc** to show all of the Tivoli components on the system. The parameter **ITM_premium** refers to the VIOS agent.

(2 of 4) Configuring the VIOS agent process steps

Step 1:

Configure the VIOS agent with the `cfgsvc` command. The command syntax:

```
$ cfgsvc ITM_premium -attr Restart_On_Reboot=<value>  
managing_system=<hmc user>@<address 1> hostname=<address 2>  
mirror=<address 3>
```

Where:

- Restart_On_Reboot is TRUE or FALSE
 - TRUE, the agent starts when the system is rebooted
 - FALSE, the agent does not start when the system is rebooted
- <hmc user> is the Hardware Management Console (HMC) user account used to connect to the HMC. It defaults to hscroot if it is not provided. The HMC user should have a minimum of HMC viewer permissions
- <address 1> is the IP address, or the host name of the HMC
- <address 2> is the IP address, or the host name of the Tivoli Enterprise Monitoring Server to which the agent should connect
- <address 3> is the IP address, or the host name of the secondary Tivoli Enterprise Monitoring Server

Note: The parameters must be specified in the order indicated

Configure the VIOS agent with the `cfgsvc` command. Log in as the user **padmin** and run the command. The command and syntax are shown.

You must configure the VIOS agent to connect to the Hardware Management Console (HMC) to retrieve storage and network mappings data.

The `cfgsvc` command creates a **key pair** which can be used by the HMC to permit a connection from the VIOS that does not require a password.

(3 of 4) Configuring the VIOS agent process steps

Step 2:

- Log in to the HMC as the HMC user used to configure the VIOS agent
- Run this command to enable the VIOS agent to communicate with the HMC
`viosvr cmd -m <managed_system_name> -p <vios_name> -c "csvgsvc -key ITM_premium"`

```
hscroot@tapshmc:~> viosvr cmd -m tapsaixp6 -p tapsaixp6-vios -c "csvgsvc ITM_premium -key"
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCeZo6lgeUvCMHM1lMbZw4q4xR19RnQ29c/F+G1GUzaxUQHqkSLbOJYYwO6kblom4Bsm+ga/viqy90HdVfCKO4cEvAhTYn0fmbb006eo67swD6KQBc2XtBJ16Xh
qkZExJhotcjpEpNaMeejc6KcII0IsujucoVceAq4nzAyAPX6WNe7vISzaObuWRcuAzik1VoYmEOPvgXu
ZPvw2K0lGiNwwyB5BQ4Njc+KhjYcfx9H4XOduBENVHu28PQ6DpME2U2r74LqB10CCdpIzV2p0deSjG9
cZy0PluZwPPNxukmMletf638ByOt6OKm+AH9/HAYqyidS9Yn5AgZ5TdtpiN3 root@tapsaixp6
hscroot@tapshmc:~> █
```

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This step is unnecessary if the ssh credentials for connection between the agent system and the HMC are already configured as part of configuring the CEC agent.

The HMC should be able to accept ssh connections from the VIOS Logical Partition (LPAR) without a password being specified. The **viosvr cmd** command obtains the public key generated on the VIOS by the **csvgsvc** command.

These are the parameters for the **viosvr cmd** command:

- * **<managed_system_name>**, is the name of the frame (CEC)
- * **<vios_name>**, is the name of the VIOS LPAR

(4 of 4) Configuring the VIOS agent process steps

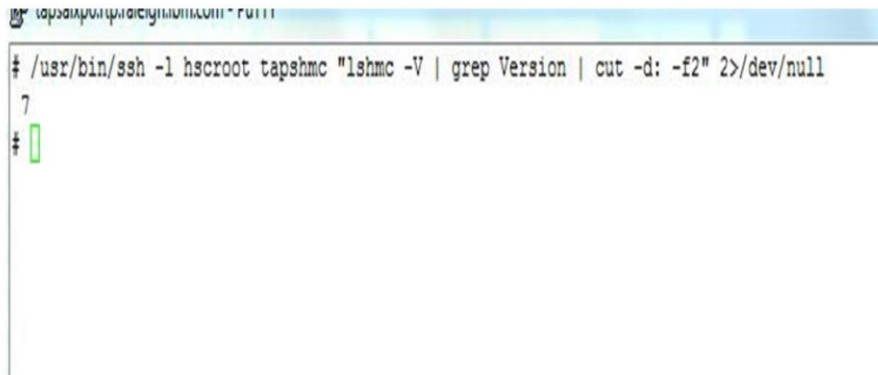
To authorize the HMC to accept ssh connections from the VIOS LPAR, run the command **mkauthkeys --add '<key>'**

```
hscroot@tapshmc:~> mkauthkeys --add 'ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCeZo6 ^
lgeUvCMHm1lMbZw4q4xR19RnQ29c/F+G1GUzaxUQHqkSLb0JYYwO6kblom4Bsm+ga/viqy90HdVfCKO4
cEvAhTYn0fmbb006eo67swD6KQ8c2XtBJ16XhqkZExJhotcjpEpNaMeejc6KcII0IsujucoVceAq4nzA
yAPX6WNe7vISzaObuWRcuAzik1VoYmEOPvgXuZPvw2K01GiNwWyB5BQ4Njc+KhjYcfxx9H4XoduBENVH
u28PQ6DpME2U2r74LqB10CCdpIzV2p0deSjG9cZy0P1uZwPPNxukmMLetf638ByOt60Km+AH9/HAYqyi
dS9Yn5AgZ5TdtpiN3 root@tapsaixp6'
```

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`



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

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

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This is the final step. Verify that the connection to the HMC is correctly established. To verify that the agent can connect to the HMC, run the command shown from the VIOS LPAR as the user **root**.

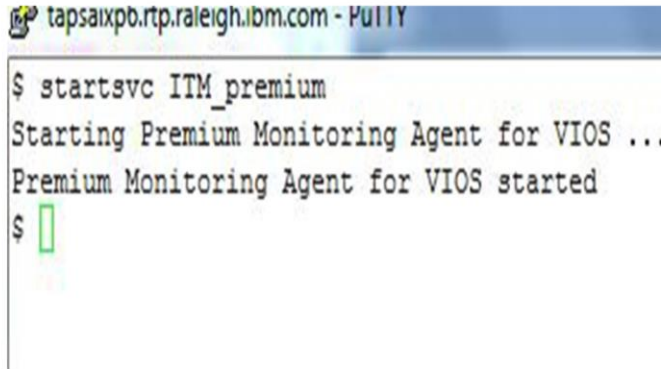
The command must return the version of the HMC without prompting for a password.

The parameters for the command are defined:

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

Starting the VIOS agent

To start the VIOS agent, log in as the user **padmin** and run the command
startsvc ITM_premium



```
tapsaixpb.rtp.raleigh.ibm.com - PuTTY
$ startsvc ITM_premium
Starting Premium Monitoring Agent for VIOS ...
Premium Monitoring Agent for VIOS started
$
```

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The previous steps make the VIOS agent ready to start. Start the agent with the **startsvc** command. After the agent starts, it connects to the Tivoli Enterprise Monitoring Server.

The data obtained by the agent from the VIOS system is displayed on the Tivoli Enterprise Portal.

Summary

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

- Configure the monitoring agent for VIOS
- Start the monitoring agent for VIOS
- View VIOS 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 monitoring agent for VIOS.

You can view the VIOS 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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