

## SECTION 9 Monitor the System

In this section of the workbook, you learn how to do the following:

- “Perform Typical Accounting and Monitoring Tasks” on 9-1
- “Get I/O and Process Related Statistics” on 9-2

### **Exercise 9-1 Perform Typical Accounting and Monitoring Tasks**

To perform typical accounting and monitoring tasks, complete the following:

1. Ensure that you are logged in to your server’s GUI as **geeko** with a password of **N0v3ll**.
2. Launch a terminal window:
  - a. Press **Alt + F2**.
  - b. Enter **konsole**.
  - c. Select **Run**.
3. To get root privileges, enter **sux -** and a password of **novell**.
4. Make sure that the package **sysstat** is already installed by entering

**rpm -qa | grep sysstat**

The response should look like:

**sysstat-5.0.1-35.1**

5. If the package **sysstat** is not installed, install it by entering **yast -i sysstat**

Provide SLES 9 CDs as requested.

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### **Exercise 9-1 Perform Typical Accounting and Monitoring Tasks**

To perform typical accounting and monitoring tasks, complete the following:

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The response should look like:

**sysstat-5.0.1-35.1**

5. If the package **sysstat** is not installed, install it by entering **yast -i sysstat**

Provide SLES 9 CDs as requested.

6. Start sysstat by entering the following in your terminal:

**/etc/init.d/sysstat start**

7. To generate a snapshot manually, enter

**/usr/lib/sa/sa1**

**/usr/lib/sa/sa2 -A**

You need to wait 10 minutes to get the snapshot, because system information snapshots are saved every 10 minutes.

8. Review the reports by using **sar**. Enter the following commands and review the results:
  - a. **sar -u** (for CPU utilization).
  - b. **sar -n DEV** (for network activity).
  - c. **sar -r** (for memory and swap space statistics).
9. Log out as root by entering **exit**.
10. Quit the terminal window by entering **exit**.

*(End of Exercise)*

### **Exercise 9-2 Get I/O and Process Related Statistics**

To get I/O and process related statistics, complete the following:

1. Ensure that you are logged in to your server's GUI as **geeko** with a password of **N0v3ll**.
2. Launch a terminal window:
  - a. Press **Alt + F2**.
  - b. Enter **konsole**.
  - c. Select **Run**.
3. To get root privileges, enter **sux -** and a password of **novell**.
4. To get a continuous device report at two second-intervals, enter

6. Start sysstat by entering the following in your terminal:

**/etc/init.d/sysstat start**

7. To generate a snapshot manually, enter

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*(End of Exercise)*

### **Exercise 9-2 Get I/O and Process Related Statistics**

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1. Ensure that you are logged in to your server's GUI as **geeko** with a password of **N0v3ll**.
2. Launch a terminal window:
  - a. Press **Alt + F2**.
  - b. Enter **konsole**.
  - c. Select **Run**.
3. To get root privileges, enter **sux -** and a password of **novell**.
4. To get a continuous device report at two second-intervals, enter

**iostat -d 2**

5. To terminate the program, press **Ctrl + c**.
6. To get extended statistics for device hda at two second intervals, enter

**iostat -x hda 2**

7. To terminate the program, press **Ctrl + c**.
8. To display global statistics combined for all available processors every two seconds, enter

**mpstat 2**

9. To terminate the program, press **Ctrl + c**.
10. If you have a multiprocessor machine, **mpstat** can display information per CPU. Enter the following command, (depending on the number of CPUs you have):

**mpstat -P 0 -P 1**

***(End of Exercise)***

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***(End of Exercise)***



