Project3 Report

Ruojia Zhang

Figure 1

Executing yaml file to create the required stacks. Filled with my initials -> roger-project3 there are blanks that requires filling in the begining.

Graphical user interface, text, application, website

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Note: Run several file create, policy operation and finished the creating process. You can see the stack’s name is roger-project3 by me.

Figure2

Connecting to oracle sql database using the sql developer as is suggested in the project3 task.

Graphical user interface, text, application

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Note: this is the connection panel of sql developer. As all information need are inserted and you can see the test Status: Success in the left bottom. Indicating that I will be able to connect to this db at anytime.

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Note: Completed Guided exercise2 with umask and file creation

Figure3

Lab Execution

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Note: Passed the lab of creating file and permission groups

Chapter review

In this chapter, I’ve learnt to use ls -l to view permission, chown and chmod to change permission and use umask to modify overall permission mask. And the default umask values for Bash are defined in the /etc/profile and /etc/bashrc files.

# Chapter 8

Figure 4

Excution of process control guided lab

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Note: Uses fg, bg command to bring process to foreground or background and use ctrl+z/c to kill process

Figure 5

Excution of killing process

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Note: Uses kill command to kill several processes.

Figure 6

Execution of LAB in chapter 8

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Note: create 3 processes and run/terminate using the command we’ve learnt in this chapter

Chapter review

In this chapter,I learned: ps, jobs, pkill, kill ,top, uptime commands. And how to bring process to foreground/background. And also I’ve learnt how to estimate load average up on a system using the top command.

# Chapter 9

Figure 7

Completing the guilded exercise for systemctl

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Note: Use systemctl command to view all the daemon status.

Figure 8

Systemctl disable/enable daemons

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Note: Uses systemctl command to enable/disable several services

Figure 9

Execution of Lab for chapter 9

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Note: Finishes using systemctl to disable and enable several services

Chapter Review

In this chapter, I learned: systemd provides a method for activating system resources, server daemons, and other processes, both at boot time and on a running system. Use the systemctl to start, stop, reload, enable, and disable services. Use the systemctl status command to determine the status of system daemons and network services started by systemd. The systemctl list-dependencies command lists all service units upon which a specific service unit depends. systemd can mask a service unit so that it does not run even to satisfy dependencies.

# Chapter 10

Figure 10

Guided exercise to Use ssh

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Note: Use ssh to go to remote server and run command directly

Figure 11

Finishes Exercise with guided exercise of using ssh key to run ssh command

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Note: Generate ssh key and add them to identity for easier and safer ssh connections.

Figure 12

Finishes Lab for Chapter 10

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Note: Uses ssh and keys and modify sshd config in this lab.

Chapter Review

In this chapter, I learned: The ssh command allows users to access remote systems securely using the SSH protocol. A client system stores remote servers' identities in ~/.ssh/known\_hosts and /etc/ssh/ssh\_known\_hosts.

# Chapter 11

Figure 13

Using logger to send log message to system logs

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Note: Uses logger, rsyslog to send log

Figure 14

Finishes guided exercise log-query

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Note: Uses jonurnalctl with several parameters to query all kind/level/time of logs.

Figure 15

Finishes Lab for log chapter

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Note: Uses logger, change date etc to do server log maintenance

Chapter Review

In this chapter, I mainly leant how to deal with logs. The systemd-journald and rsyslog services capture and write log messages to the appropriate files. The /var/log directory contains log files. Periodic rotation of log files prevent them from filling up the file system space. The systemd journals are temporary and do not persist across reboot. The chronyd service helps to synchronize time settings with a time source. The time zone of the server can be updated based on its location.

Figure 16

Screen shot of current progress

Graphical user interface, application

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Note: currently finished everything before chapter 12.