Welcome to Shell

The Command Line Interface
to the Linux Operating System

What You Will Learn

- What the shell is.

- How to access the shell.

- What the superuser account is.

What Is the Shell?

- The default interface to Linux.

```
[jason@mac ~]$ ssh linuxsvr
Last login: Tue Feb  7 12:55:03 2023 from 192.168.1.32
[jason@linuxsvr ~]$ 
```

```
AlmaLinux 9.1 (Lime Lynx)
Kernel 5.14.0-162.6.1.el9_1.aarch64 on an aarch64

Activate the web console with: systemctl enable --now cockpit.socket


localhost login: jason
Password:
[jason@localhost ~]$ _
```

Feb 7 13:18

terminal

Terminal

Software

XTerm Terminal emulator for the X Window System

Yakuake Drop-down Terminal

Konsole Terminal

Terminal Use the command line

gedit Edit text files

sty 29 19:29

terminal

> _

Terminal

Characters   Soyombo Terminal Mark-1 U+11AA1, ▢: Soyombo **Terminal** Mark-1

Soyombo Terminal Mark-2 U+11AA2, ▢: Soyombo **Terminal** Mark-2

What Is the Shell?

- A program that accepts your commands and executes those commands.

- Also called a command line interpreter.

- The default interface to Linux.

Command Line Interface vs a GUI

- The command line is more powerful.

- There will always be a command line.

- Server distributions do not include GUIs.

- Connect over Network.

- Desktop distributions have GUIs and CLIs.

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(NORMAL LINK) Use right-arrow or <return> to activate.
Arrow keys: Up and Down to move. Right to follow a link; Left to go back.
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list

The Prompt

```
[jason@linuxsvr ~]$

[root@linuxsvr:~]#
```

Root, the Superuser

- Root is all powerful.

- Normal accounts can only do a subset of the things root can do.

Root, the Superuser

- Root access is typically restricted to system administrators.

- Root access may be required to install, start, or stop an application.

- Day to day activities will be performed using a normal account.

The Prompt

```
jason@linuxsvr $
[jason@linuxsvr /tmp]$
linuxsvr:/home/jason>
jason@linuxsvr:~>
[16:45:51 linuxsvr ~]$
$
%
>
```

Tilde Expansion

~jason   =   /home/jason

~pat   =   /home/pat

~root   =   /root

~ftp   =   /var/ftp

Multi-Line Prompts

```
linuxsvr:[/home/jason]
$

[Mon 30/01/23 18:22 EST][pts/0]
<jason@linuxsvr:~>
zsh 14 %
```

Summary

- The shell is the default user interface.

- Use the terminal application to get to the CLI.

- Shell prompts can vary greatly in appearance.

- Root is the superuser.