

# Welcome to Shell

The Command Line Interface  
to the Linux Operating System

# What You Will Learn

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- What the shell is.
- How to access the shell.
- What the superuser account is.

# What Is the Shell?

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- The default interface to Linux

```
[jason@macdesktop ~]$ ssh linuxsvr
jason@192.168.122.60's password:
Last login: Sun Feb  2 19:27:15 2014 from 192.168.122.1
[jason@linuxsvr ~]$ █
```

CentOS release 6.5 (Final)  
Kernel 2.6.32-431.el6.i686 on an i686

linuxsvr login: jason  
Password:  
[jason@linuxsvr ~]\$\_

- Accessories >
- Graphics >
- Internet >
- Sound & Video >

- System Tools >
  - Disk Utility
  - File Browser
  - Terminal

jason's Home



Trash



terminal

Applications



Terminal



UXTerm



XTerm



# What Is the Shell?

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- The default interface to Linux
- A program that accepts your commands and executes those commands



# What Is the Shell?

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- The default interface to Linux
- A program that accepts your commands and executes those commands
- Also called a command line interpreter

# Command Line Interface vs a GUI

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- The command line is more powerful.
- There will always be a command line.
- Server distributions do not include GUIs.
- Desktop distributions have GUIs and CLIs.

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-- press space for next page --

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 ~]$
```

# The Prompt

---

```
[jason@linuxsvr ~]$
```

```
[root@linuxsvr:~]#
```

# Root, the Superuser

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- Root is all powerful.
- Normal accounts can only do a subset of the things root can do.

# Root, the Superuser

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- Root access is typically restricted to system administrators.
- Root access may be required to 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

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- `~jason` = `/home/jason`
- `~pat` = `/home/pat`
- `~root` = `/root`
- `~ftp` = `/srv/ftp`

# Multi-Line Prompts

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

```
[Mon 14/02/18 18:22 EST] [pts/0]  
<jason@linuxsvr:~>  
zsh 14 %
```

# Summary

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- 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.