

# The Shell: Anatomy Navigation Permissions

**Live Learning Session** 



# Agenda

- → Introduction
- → Recap anatomy
- → Shell navigation
- → Shell permission



## Check-In Prompt



In 5 seconds, mention one concept that you want to improve on this week.

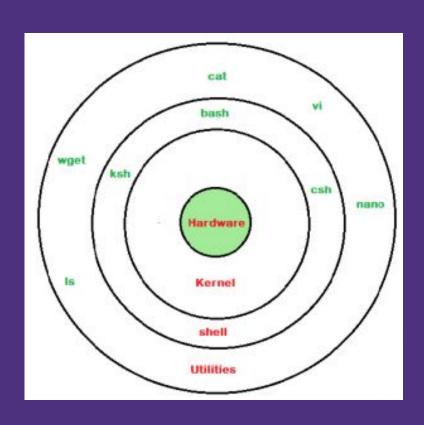




- \$
- User interfaces like GUI, CLI
- We use a shell to interact with the terminal



### What is kernel? Shell? terminal?



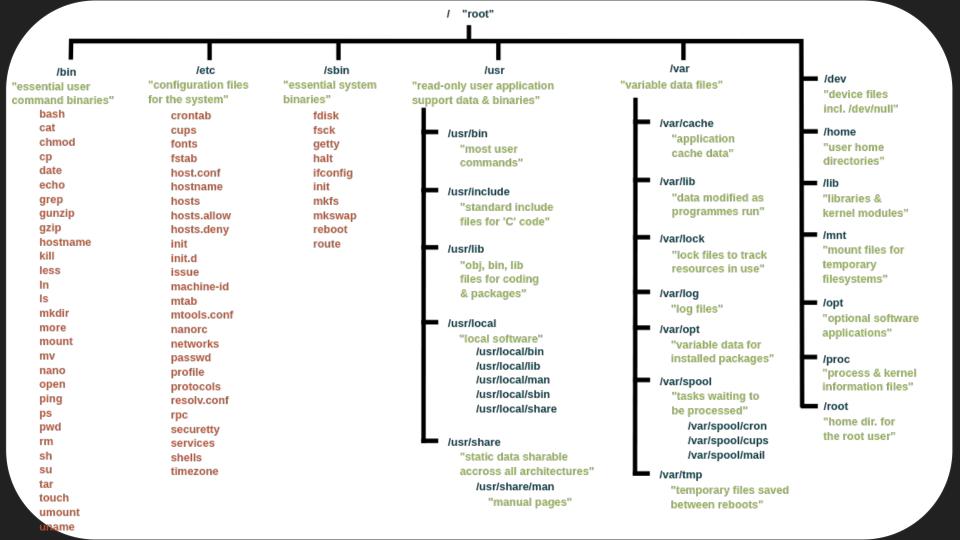
# Navigation





## Flying within the terminal world

 Knowing the hills and valleys of your favorite world will enhance your adventure

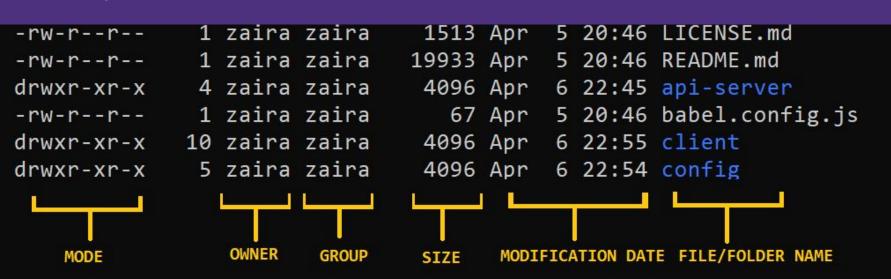




Permissions

#### chmod

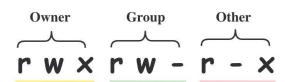
- File permissions are core to the security model used by Linux systems.
- They determine who can access files and directories on a system and how.



#### Linux File Permissions



Binary	Octal	String Representation	Permissions
000	0 (0+0+0)		No Permission
001	1 (0+0+1)	x	Execute
010	2 (0+2+0)	-w-	Write
011	3 (0+2+1)	-wx	Write + Execute
100	4 (4+0+0)	r	Read
101	5 (4+0+1)	r-x	Read + Execute
110	6 (4+2+0)	rw-	Read + Write
111	7 (4+2+1)	rwx	Read + Write + Execute



r	Read	4	
W	W Write or Edit		7
×	Execute		

r	Read	4	
w	Write or Edit	2	6
-	No Permission	0	

	r	Read	4	
	-	No Permission	0	5
,	K	Execute	1	

#### Resources

- 1. <u>Navigating the command line</u>
- 2. <u>Commands reference</u>
- 3. All about file permissions
- 4. RedHat permissions tutorial
- 5. Github QuickStart tutorial

## Announcements

- Use @c14mentors tag, do NOT DM Beta
- Slack! Slack! USE SLACK!
- Pay attention to the announcement channel
- Learn with your ambassadors.
- Your sandbox is amazing! Explore it!