

Linux for DevOps - Day 2 Notes

Understanding File Permissions

Permissions format: -rwxr-xr--

r: read

w: write

x: execute

u: user (owner), g: group, o: others

View permissions: ls -l

Changing Permissions (chmod)

Symbolic:

chmod u+x file

chmod g-w file

chmod o=r file

Numeric:

chmod 755 file => rwxr-xr-x

chmod 644 file => rw-r--r--

User Management

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Create user: `sudo useradd karanuser`

Set password: `sudo passwd karanuser`

Switch user: `su - karanuser`

Delete user: `sudo userdel -r karanuser`

Group Management

Add group: `sudo groupadd devgroup`

Add user to group: `sudo usermod -aG devgroup karanuser`

Check groups: `groups karanuser`

Ownership and Groups

Change owner: `sudo chown karanuser file.txt`

Change group: `sudo chgrp devgroup file.txt`

Mini Practice Task

1. Create `secure.txt`
2. `chmod 640 secure.txt`
3. Create user `testuser` and group `devopsgrp`
4. `chown testuser secure.txt`
5. `chgrp devopsgrp secure.txt`