Shell Programming

A Necessity for all Programmers

Handling Ownership

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Infinite Learning

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You will learn to ...
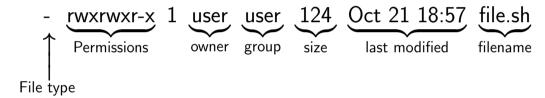
- Handle users and group
- Change ownership

- long list format
- displays information

- $\underbrace{\text{rwxrwxr-x}}_{\text{Permissions}}$ 1 $\underbrace{\text{user}}_{\text{owner}}$ $\underbrace{\text{user}}_{\text{group}}$ $\underbrace{124}_{\text{size}}$ $\underbrace{\text{Oct 21 18:57}}_{\text{last modified}}$ $\underbrace{\text{file.sh}}_{\text{filename}}$

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File type

Super User

- Special user
- Used for System Administration
- root
- First user
- **sudo**

User and Groups

Users
- Individuals
- Create:
  sudo useradd -m <Username>
  -p <Password>
- Delete:
  sudo userdel -r <Username>

Groups
- Set of users
- Create:
  sudo groupadd <Group name>
- Delete:
  sudo groupdel <Group name>

- Add user to a group: **sudo gpasswd -a <Username> <Group name>**
- Remove a user from a group: **sudo gpasswd -d <Username> <Group name>**
- **\etc\group**

Change Ownership

- Change owner and group
  chown <owner Username>:<group name> <file(s)>
- Change only group membership
  chown :<group name> <file(s)>
- Recursively change: **-R**
- Normal users: Permitted to change only the files they own
- No restriction for super user/root

- Change ownership and group membership

Thank you