

# [639] Linux basics

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# Learning Objectives

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Navigate	a Linux file system
Operate	within a Linux shell
Automate	repeated tasks
Chain	multiple Linux programs together into a pipeline
Redirect	process output to a file

# What is a Shell?

Shell program

LOOP:

```
print(SOME PROMPT)
cmd = get_input()
run(cmd)
```



script.sh

shell commands

...

# SSH: Secure Shell

running on  
my laptop



```
meenakshisyamkumar -- meenakshisyamkumar@instance-1: ~ -- ssh meenakshisyamkumar@34.71.75.41 -- 87x33
meenakshisyamkumar:~$ hostname
Meenakshis-MacBook-Air.local
meenakshisyamkumar:~$ ssh meenakshisyamkumar@34.71.75.41
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1019-gcp x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Thu Jan 25 18:57:00 UTC 2024

System load:  0.0                Processes:            105
Usage of /:   7.9% of 24.05GB     Users logged in:     0
Memory usage: 11%                IPv4 address for ens4: 10.128.0.3
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
```

running on  
my VM



```
Last login: Thu Jan 25 18:57:01 2024 from 172.220.116.84
meenakshisyamkumar@instance-1:~$ hostname
instance-1
meenakshisyamkumar@instance-1:~$ █
```