

# 02.16Apr.Linux Commands

16 April 2023

04:37 PM

## Automation --> Engineering(IaC)

BigData = DataOps ( Hadoop Admin --> BigData Engineer)

System = SysOps( Linux Admin. --> SE)

Security = DevSecOps, SysSecOps

Application = DevOps

Intelligence = MLOps, AIOps

1. **System** --> Linux --> SysOps(TF, Docker, Kubernetes, Security)
2. **Application** --> CICD --> DevSecOps
3. CLOUD

## CORE

- Linux
- Shell
- Python(Readable)

## DevOps(Application Deployment)

- Application Development Phases
  - Methodologies(SDLC, Agile)
  - Development Teams
  - Operation Teams
  - Infrastructure Teams
- Process Of DevOps & Tools
- VCS(Github --> GitLab)
- Build Tool( Apache Maven)
- CI Tool(Jenkins)
- Logical Servers( Web, Application, Database)
- C. Deployment( Github Actions)

## SysOps( Infra, Provisioning, System Automation)

- Configuration Management (Ansible)
- Infrastructure

## Cloud(AWS =2006 to TODAY )

- Cloud (IaaS - EC2, VPC, IAM, PaaS - RDS, S3, Route53)

## CloudOps

- Containerization ( Docker )
- Orchestrations ( Kubernetes)
- IaC ( Terraform )
- Pipeline (Github, GitLab, AWS, Microsoft Azure)

1. Trainer
2. Mentor

## Recording Shortcut Keys:

Shift + > Increase Speed

Shift + < Decrease Speed

Trainer Deliver(18Years) --> Sat, Sun ( Understand )

Assignment( Hands On ---> Exercise) --> Mon-Sun ( Confidence )

Implementation( Project ) = Clear

Mock Interview

Focus, HAPPY,

Core

## Linux Command Categories

1. File & Folder Management
  - a. \$ ls
  - b. \$ touch
  - c. \$ mkdir
  - d. \$ cat
  - e. \$ Editor vi/nano
  - f. \$ pwd
  - g. \$ cd
2. Text Processing Management
  - a. \$ grep
  - b. \$ awk
  - c. \$ sed
  - d. \$ sort
  - e. \$ diff

## Grep Command

\$ grep "SearchPattern" File

\$ grep "Pattern" File-Wild-Card(\*, ?)

Search in Folder and Sub-Folder, Only txt File Format

\$ grep -r "Pattern" --include="\*.txt" PATH

Search in Folder and Sub-Folder, Only txt,md,docx File Format

\$ grep -r "Pattern" --include="\*.txt|\*.md|\*.docx" PATH

\$ echo Message

\$ cat FileName

\$ echo Welcome > FileName

Welcome

To  
Linux

```
$ echo -e "Welcome \n To \n Linux" = String Interpolation
```

```
$ printf "Welcome \n To \n Linux"
```

```
$ a=10 # a is a variable  
$ echo $a
```

```
$ printf 'value of a is %s ' $a '\n'
```

```
S1 --> ~/.ssh/config( Host \n IdentityFile PATH ) --> S2
```

Escape Sequence  
\n --> New Line  
\t --> Tab( 8 Spaces)

```
$ tee -a /home/official_nubeera/f4 << EOF  
Host aws.com  
IdentityFile aws.pem  
Host azure.com  
IdentityFile azure.pub  
EOF
```

```
$ cat <<EOF > /home/official_nubeera/f5  
bbbb  
cccc  
aaaa  
eeee  
iiii  
EOF
```

```
$ cat <<EOF >> /home/official_nubeera/f5  
bbbb  
cccc  
aaaa  
eeee  
iiii  
EOF
```

```
$ sort filename.ext
```

```
$ sort -r f5 > f8
```

```
$ sort -n FileName
```

```
$ sort -nr RandomNumbers.txt
```

AWK  
SED