

03.16Apr.Linux Commands

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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