Linux commands:

1) Package installation using RPM and yum

2) Filter commands

3) Types of links soft and hard link

4) Apache Tomat installation

5) Start and stop services

1. Linux, RPM (Red Hat Package Manager) and YUM (Yellowdog Updater, Modified) are package management systems commonly used in Red Hat-based distributions such as Red Hat Enterprise Linux (RHEL), CentOS, and Fedora

**Install a Package:-**

# rpm -i package\_name.rpm

**Check if a package is installed**,

# rpm -q package name

**Uninstall a Package:**

#rpm -e package name

**Using YUM:**

#yum install package name -🡪 **Install a Package:**

#yum list installed -🡪 **List Installed Packages:**

#yum update package name -🡪 **Update a Package:**

**Filter commands**

**grep:** Searches for patterns in text.

# grep "pattern" filename

**Awk :** versatile text processing tool that can perform pattern scanning

awk '{print $1}' filename

**sed :** Stream editor for filtering and transforming text.

# sed 's/search\_pattern/replace\_pattern/' filename

**Cut : Purpose:** Removes sections from each line of a

# cut -d ',' -f 1,3 filename

**Head :** Outputs the first part of files

#head -n 10 filename

**Purpose:** Outputs the last part of files.

#tail -n 10 filename

**Head :** Outputs the first part of files.

head -n 10 filename

**grep :** Searches for patterns in text.

#grep "pattern" filename

**awk**

A versatile text processing tool that can perform pattern

there are two main types of links: hard links and soft

### Hard Links:

hard link is a reference to the same inode (data structure on disk representing a file) as the original file

# ln existing\_file new\_hard\_link

#ln –s sourcefile destination file

### Soft (Symbolic) Links

soft link, or symbolic link, is a separate file that contains a path pointing to the location of the original file

#ln -s target\_file new\_symbolic\_link

#ln –s sourcefile destination file

**Apache Tomcat Installations & Verify the service start and stop**

Apache Tomcat, often referred to simply as Tomcat, is an open-source application server developed by the Apache Software Foundation. While Apache HTTP Server is a general-purpose web server, Tomcat is specifically designed to execute Java Servlets, JavaServer Pages (JSP), and other Java-based technologies

Tomcat 🡪 Java-based application server port: 8080

Apache (HTTP) -- > web server ports 80 443

**Install Apache HTTP Server:**

#sudo yum install httpd

#sudo systemctl start httpd

#sudo systemctl enable httpd

**Install Apache Tomcat:**

#sudo yum install java

#sudo yum install tomcat

#sudo systemctl start tomcat

#sudo systemctl enable tomcat

**Service stop and start**

#sudo systemctl stop tomcat

#sudo systemctl start tomcat

#sudo systemctl restart tomcat

#sudo systemctl status tomcat