SECTION1: INTRODUCTION OF UNIX / LINUX

- **What is Linux?**
- **Why Linux is better?**
- **Flavors of Linux**
- **Why RHEL?**
- **Linux in Cloud**
- **Linux Architecture**
- **user, shell and kernel**

SECTION2: FILE ATTRIBUTES

- **Basic Commands**
- **Managing files and directories**
- **Links**
- **File Compressions**
- **Filter Commands**
- **Grep, sed, find**

SECTION3: THE KING OF EDITORS

- **What are the types of Editors**
- **Nano, gedit…etc**
- **Modes of operations**
- **Find and Replace**
- **Delete and Paste**
- **Yank and Paste**
- **Execute mode operations**

SECTION4: PROCESS MANAGEMENT

- **What is a process?**
- **Process states**
- **Running processes with background and foreground**
- **Adjust process priority and kill process**
- **Process States and Zombies**
- **Monitoring the current system**

SECTION5: MANAGE USERS AND GROUPS

- **Managing Users**
- **User properties and where are they stored on the system.**
- **Understanding /etc/passed, /etc/group, /etc/shadow and /etc/shadow**
- **Change password and Password aging policies**
- **Managing Groups**
- **User account Initializations**
- **User configuration file**
- **Sudo configurations for users and groups**

SECTION6: FILE PERMISSIONS
- **What is a permission?**
- **Types of permissions**
- **Access Levels**
- **What is a umask?**
- **Changing permissions with chmod**
- **What is chgrp?**
- **What is chown?**

SECTION7: NETWORKING BASICS
- **What is a network and Networking?**
- **Managing Hostname & Ip-address**
- **Managing port numbers**
- **Remote login connections**
- **Telnet**
- **SSH**
- **SCP & WinSCP**

SECTION8: SHELL PROGRAMMING
- **What is a Shell?**
- **Types of shells**
- **Shell types**
- **When to use shell script?**
- **The first shell script**
- **Interactive shell script**
- **Shell keywords**

SECTION9: SHELL VARIABLES
- **What is a variable?**
- **Variable types**
- **System defined variables**
- **Paths**
- **User defined variables**
- **Null variables**
- **Operators**
- **Types of operators**

SECTION10: TAKING DECISIONS
- **If-then-fi statement**
- **If-then-else-fi statement**
- **Nested if-elses**
- **Use of logical operators**
- **The Test commands**

SECTION11: LOOP CONTROL STRUCTURE

- **What is a loop?**
- **While loop**
- **Until loop**
- **The for loop**
- **The break statement**
- **The continue statement**

SECTION12: POSITIONAL PARAMETERS

- **Command line arguments**
- **Positional parameter values**
- **Set keyword**
- **Setting values of positional parameters**
- **Shift on positional parameters**
- **Displaying date on desired format**

SECTION13: FUNCTIONS

- **What is a function?**
- **Simple introduction to functions**
- **Scope of the variable.**
- **Returning a variable value**
- **Passing parameters to a function**
- **Positional parameters in functions**

SECTION14: SCHEDULING JOBS

- **What is automation?**
- **One time task exaction with AT**
- **Jobs with crontab**
- **Shell script to send automatic mails**
- **Shell script to monitor file system with mail alerts**
- **Jobs output redirection**

SECTION15: DEBUGGING SHELL SCRIPTS

- **What is Debugging?**
- **Fix bugs (errors)**
- **Built in debugging help**

TRAINER: Mr. R N RAJU (Red Hat Certified & Cloud Engineer)

- **MOBILE NUMBER: +91 9848363431**
- **MAIL ID: Rnraju4u@gmail.com**
- **YOUTUBE: SysGeeks**