01.15Apr.Introduction to Cloud & DevOps

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1. Core Fundamentals(Linux, Scripting= YAML, Python)
2. Infrastructure (Cloud)
   a. AWS
   b. Azure
3. Deployment (DevOps)
   a. DevOps = CI/CD
   b. SysOps = Docker, Kubernetes
   c. CloudOps = CI/CD + Kubernetes

Core Fundamentals:
1. Computer Fundamentals (OS = Linux, Scripting, Network, Security)

Linux Practice: https://shell.cloud.google.com/
   ➢ Redhat
   ➢ Debian:
      ○ Ubuntu = Africa
      ○ Kali = India
   ➢ $ cat /etc/os-release

Wild Card Character:
 > Searching
Asterisk(*) = one / More than one characters
Question Mark(?) = Only one character

LMS Portal: https://ilms.nubeera.com/
   ➢ Notes
      ○ Material Notes
      ○ Short Notes
      ○ Running Notes
   ➢ Recorded Videos
   ➢ Online Labs
   ➢ Scripting/ Manuals

              Unix ---> Linux
Linux Commands Categories:
1. File Management
2. User Management
3. Package Management
4. Disk Management
5. Network Management
6. Security Management

1. File Management
   ➢ $ pwd #Present Working Directory

- $ ls   #Listing Files & Folders
- $ touch filename.ext   #Create Empty File
  $ touch f1.txt
  $ touch f2.txt
  $ touch f3.txt
  $ touch f1.txt f2.txt f3.txt   # Create Multiple files in Single Command

  $ touch s{1..500}.txt   # Create 500 Files in Single Command

  Create File using
  1. Command
        a. $ touch

  2. Command Editor
        a. $ cat   = ConCATenate
              i. Read $ cat filename.ext
              ii. Write $ cat > filename.ext
              iii. Append $ cat >> filename.ext
        b. $ vi   = Visual
        c. $ vim   = VIsual Improved
        d. $ nano = GNU, Simple , Modeless
  3. Graphic Editor
        a. $ gedit = Graphical Editor
        b. $ Visual Studio code Editor

  $ touch abc.txt   #Create an Empty File
  $ cat abc.txt   # Read Text File

  $ cat > abc.txt
  WRITE MESSAGE
  Ctrl+z

  Clear Screen: $ clear   OR $ ctrl+L

  Complete Word: $ touch pTAB key

  $ cat >> pqr.txt   # Append file

  $ mkdir FolderName

  $ mkdir F1 F2 F3

  $ mkdir F{1..50}

  Only Display Files Not Folders
  $ ls -p | grep -v /

  Only Display Folders not Files
  $ ls -p | grep /

$ rm FileName.ext   Single File Delete

$ rm -i FileName.ext   #Delete File with Confirmation

$ rm Pattern**WildCard**.ext

Delete all txt files start with **f** character

$ rm f*.txt

Delete Everything
$ rm -rf *

cd = Change Directory / Current Directory

Linux Command Categories
1. File Management
    1. $ pwd
    2. $ ls
    3. $ mkdir
    4. $ touch
    5. $ cat
        a. Read
        b. Write
        c. Append
        d. Check OS: $ cat /etc/os-release
    6. $ rm
        a. File
        b. Directory $ rm -rf *