DevOps Assignment 1

Basics of Linux

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SYMSC (C.S)

MCS-14

1. **Print Time Stamp**
2. **Create the given Directory Struct**

**Ans:**

$date

$date ‘+%s’

$mkdir mca001 mylinks mybackup

1. **Print Time Stamp to ‘set1.txt’**
2. **Use command to append your current directory path to ‘set1.txt’**
3. **Perform a non-recursive listing of files of current directory (including hidden files) and save it to file ‘set1.txt’**
4. **Perform a non-recursive long listing of files of current directory and save it to file ‘set1.txt’**

**Ans:**

$date > set1.txt

$cat set1.txt

$date > set1.txt

$pwd >> set1.txt

$ cat set1.txt

$ ls -a /home/onwaorks/ >> set1.txt

$ cat set1.txt

**1. Print Time Stamp to ‘set2.txt’**

**2. Navigate to dir1.**

**3. Print the path of the current directory to ‘set2.txt’**

**4. Copy all three .cpp files from dir1 to mybackup**

**5. Perform a long listing of the mybackup directory in to ‘set2.txt’**

**Ans:**

$cp /home/onworks/mca001/dir1/{test1.cpp,test2.cpp,test3.cpp} /home/onworks/

$cp /home/onworks/mca001/dir1/{test1.cpp,test2.cpp,test3.cpp} /home/onworks/mybackup/

$ls /home/onwaorks/mybackup/

**1. Navigate to dir2.**

**2. Print Time Stamp in set3.txt**

**3. Create a text file ‘hello.txt’ using nano with the following text Hello world**

**This is my first unix assignment**

**This file is created using nano editor**

**2. Navigate back to home directory.**

**3. View the contents of ‘hello.txt’ from the home directory.**

**4. Move the file ‘hello.txt’ to dir3.**

**5. Delete the directory dir2.**

**Ans:**

$ cd..

$ cd dir2

$ nano hello.txt

$ cd..

$ cat /home/onworks/mca001/dir2/hello.txt

$ mv /home/onworks/mca001/dir2/hello.txt /home/onworks/mca001/dir3

$ rm /home/onworks/mca001/dir2

$ rm -r /home/onworks/mca001/dir2

**•** **Navigate to directory ‘mylinks’**

**• Create a hard link to ‘hello.txt’**

**• Create a soft link to ‘readerwrite.cpp’**

**• Print the inode number of all entities in ‘mylinks’ directory.**

**• Store the long listing of ‘mylinks’ directory along with inode number to ‘set4.txt’ in the same directory**.

**Ans:**

$cd home/ubuntu/mylinks/

$ ln home/ubuntu/mca001/dir1/hello.txt

$ ln -s home/ubuntu/mca001/dir1/test1.cpp

**• Navigate to Home directory**

**• Print Time Stamp to ‘set5.txt’**

**• Append current directory path to ‘set5.txt’**

**• Append value of PATH variable to ‘set5.txt’**

**• Find the locations where ‘who’ command is stored and append the same to ‘set5.txt’**

**• Find the path of the ‘who’ command which gets executed on your system and append it to ‘set5.txt’**

**Ans:**

$cd ubuntu/

$date > set5.txt

$pwd >> set5.txt

$echo $PATH

$echo $PATH >> set5.txt

$ cat set5.txt

$ type -a who

$ type -a who >> set5.txt

$ cat set5.txt

$whereis who >> set5.txt

$cat set5.txt

**• Navigate to ‘mca001’**

**• Print Time Stamp to ‘set6.txt’**

**• Find the word and line count of hello.txt and append the same to ‘set6.txt’**

**• Append the first 2 lines of hello.txt to ‘set6.txt’**

**• Split the file graph.cpp into two files.**

**• Sort the contents of the file ‘hello.txt’ in reverse order and append the same to ‘set6.txt’**

**ANS:**

$ wc -l < /home/ubuntu/mca001/dir3/hello.txt

$ wc -w < /home/ubuntu/mca001/dir3/hello.txt

$cat set6.txt

$head -n2 /home/ubuntu/mca001/dir3/hello.txt >> set6.txt

$cat set6.txt