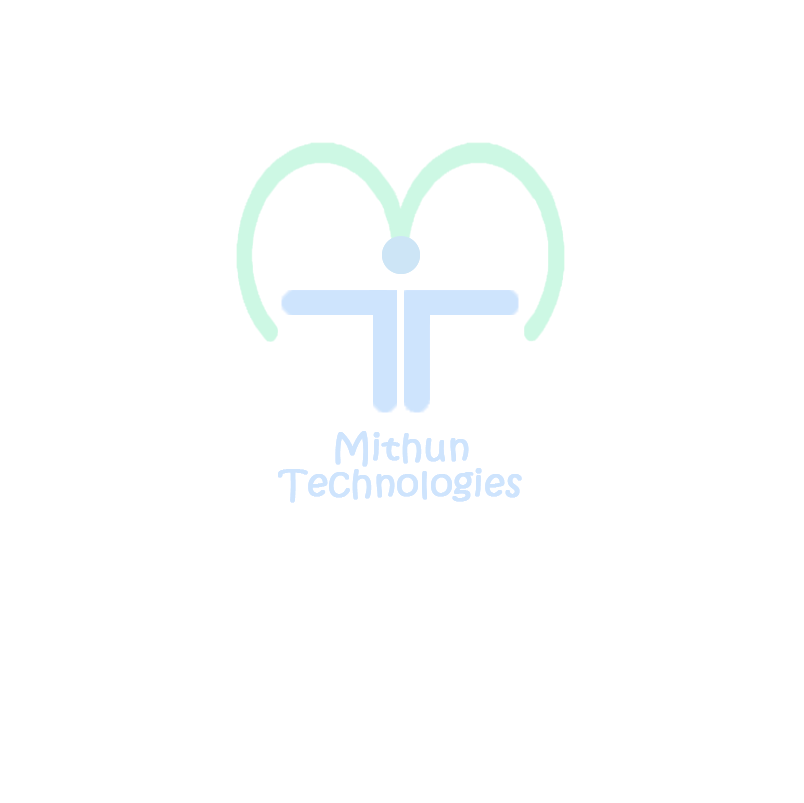
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# Linux Interview Questions

1. **In Ubuntu server I have fired a command “cat /etc/where-release”, what it will gives me? Ans)**
2. **The command uname –a what it will gives me? Ans)** ) uname is a command which provide the information like Kernal name,machine hostname,kernal version,system date ,cpu architecture and operating system name.



1. **Let say that I have one shell script, I wanted to be executed whenever the system boot time, it should not be executing at any other time, it exacted only boot time. In this scenario what will do?**

**Ans)**

**4) What is the difference between bash\_profile and bashrc file in user home directory?**

**Ans)** bash\_profile will execute for login shells only, when bashrc will execute for

interactively non-login shells.

1. What is Login Shell and Non Login shell

**Ans)** When you login using username and password via console,or remotely,first .bash\_profile is executed to configure the shell before to prompt the command.

1. Can you explain me the contents in /etc/shadow file?

**Ans)**

1. How is your knowledge on Linux File System? Ans)
2. Have you worked on /srv directory? Ans)
3. What is the difference between /bin and /sbin directory? Ans)
4. What configuration we have to set to do for normal user and root user differentiation? Ans)
5. There is some settings which makes doesn’t show some advanced commands to normal user? What are those settings?

Ans)

1. What is PATH and what does it do? Ans)
2. Which lang u prefer? Ans)
3. Difference between $\* and $@ Ans)

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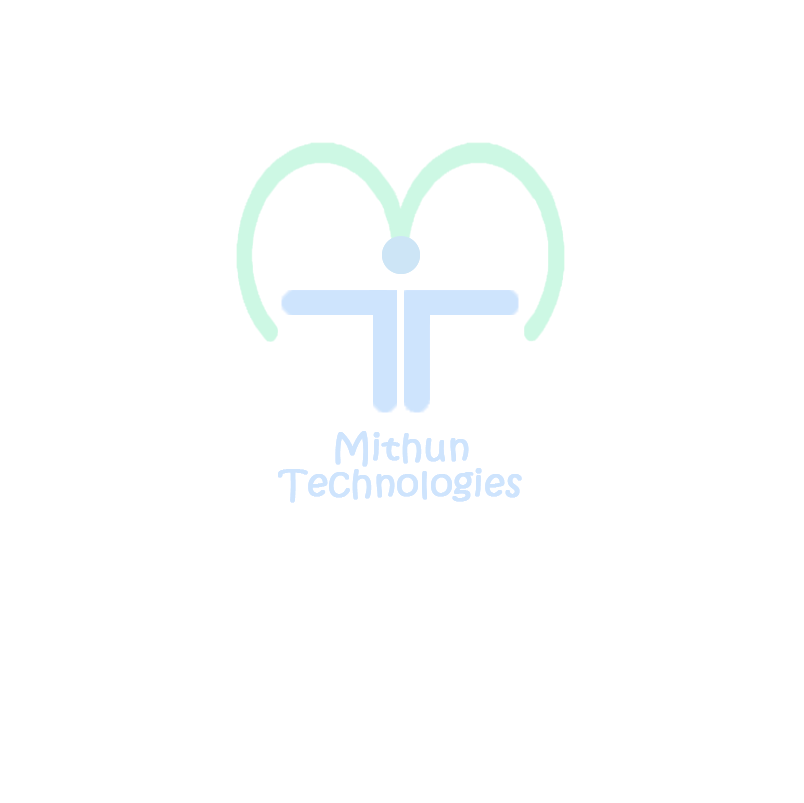
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1. **Explain about Cron Job?**

Ans)

1. **How to check one software where is installed in Linux machine? Suppose take Jenkins. Ans)**



1. **How to set the path which is accessible by the all the users?**

**Ans)**

1. **How to create the user? Ans)**
2. **How to create the group? Ans)**
3. **How to add user to group? Ans)**
4. **How to check CPU utilization? Ans)**
5. **What is load average? Ans)**
6. **What is the difference between load average and cpu load? Ans)**
7. **What is load average?**

**Ans)**

1. **What is Inode? Ans)**
2. **What is Sticky bit? Ans)**
3. **How to check process is in waiting state or not? Ans)**
4. **What is process? Ans)**
5. **What is thread? Ans)**
6. **On what process the server will shutdown? Ans)**
7. **How to find the empty directories in the current directory and need to delete?**

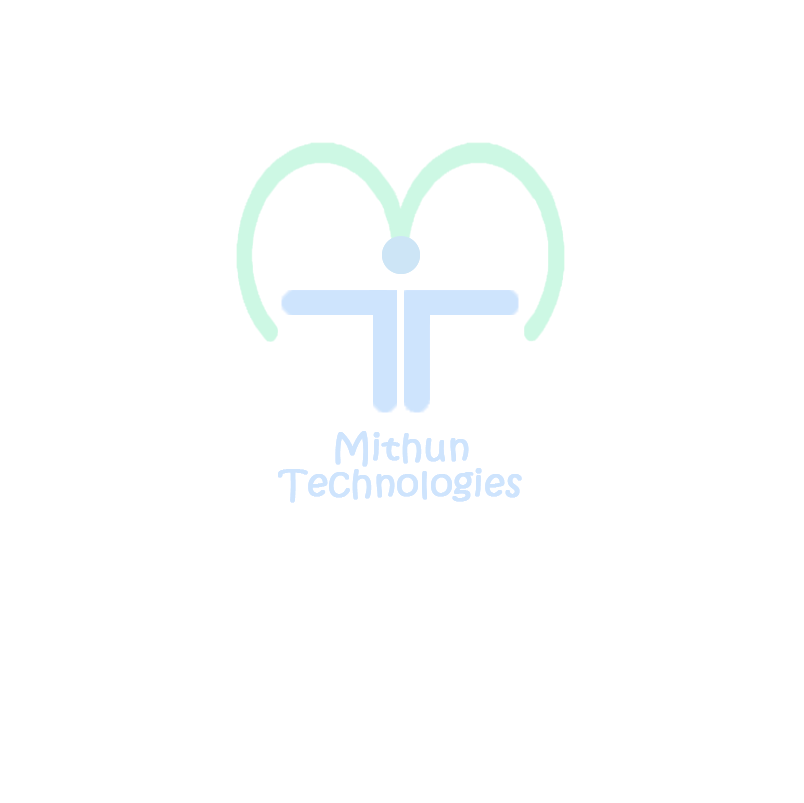
Ans)

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1. **How to find the empty files in current directory? Ans)**
2. **How to find the empty lines in particular file and need to remove? Ans)**
3. **What is the umask? Ans)**



1. **What is max value of giving to umask? Ans)**
2. **what is chmod? Ans)**
3. **How to check ports in linux? Ans)**
4. **What is the default permissions to a file? Ans**)

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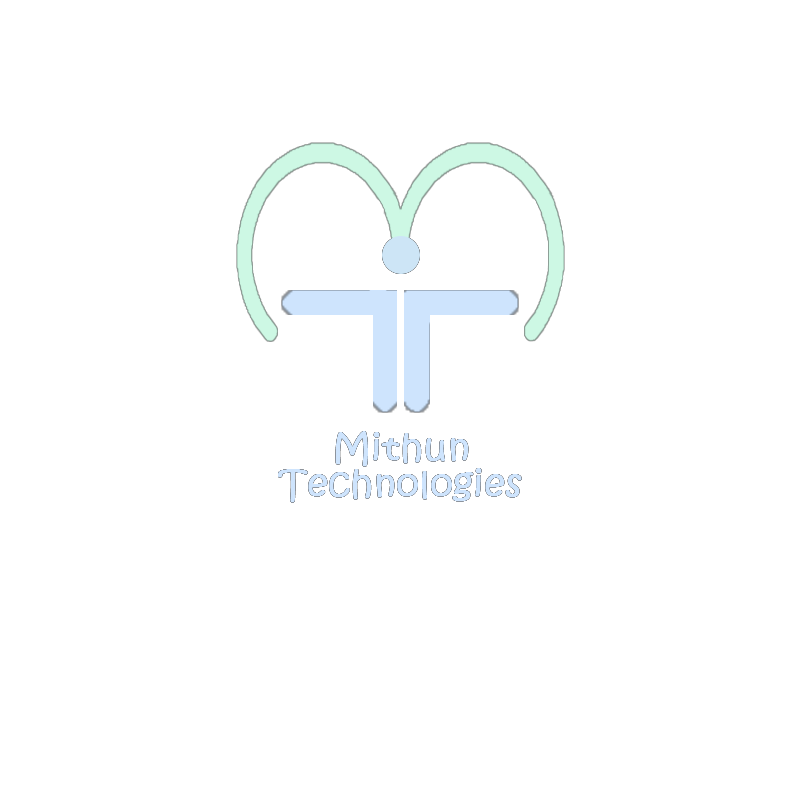
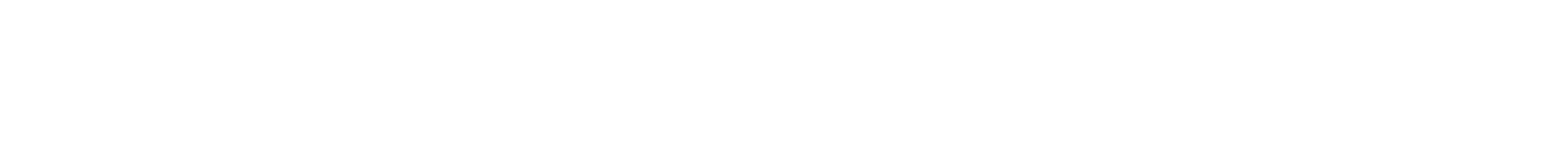
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# Linux Interview Questions

**Explain the file system hierarchy in Linux system? Ans)**

**What is mkdir command and what is the -v, -p and -m options with mkdir command? Ans)**



**What is ls -ltr? In this what is l,t and r? Ans)**

**How to list all hidden files and hidden directories? Ans)**

**How to display only directories? Ans)**

**How to display only files? Ans)**

**What is cd -? Ans)**

**What is cd ~? Ans)**

**What is cd? Ans)**

**Which user account is created on Linux while installation? Ans)**

**What is the use of file command? Ans)**

**How to create zero size file Linux? Ans)**

**How to check the RAM size? Ans)**

**How to check the server resources(CPU, RAM and Disk) utilisation? Ans)**

**How to search the files with various conditions like empty files, based on size...? Ans)**

**What is Umask? Ans)**

**How to set the umask permanently for a user? Ans)**

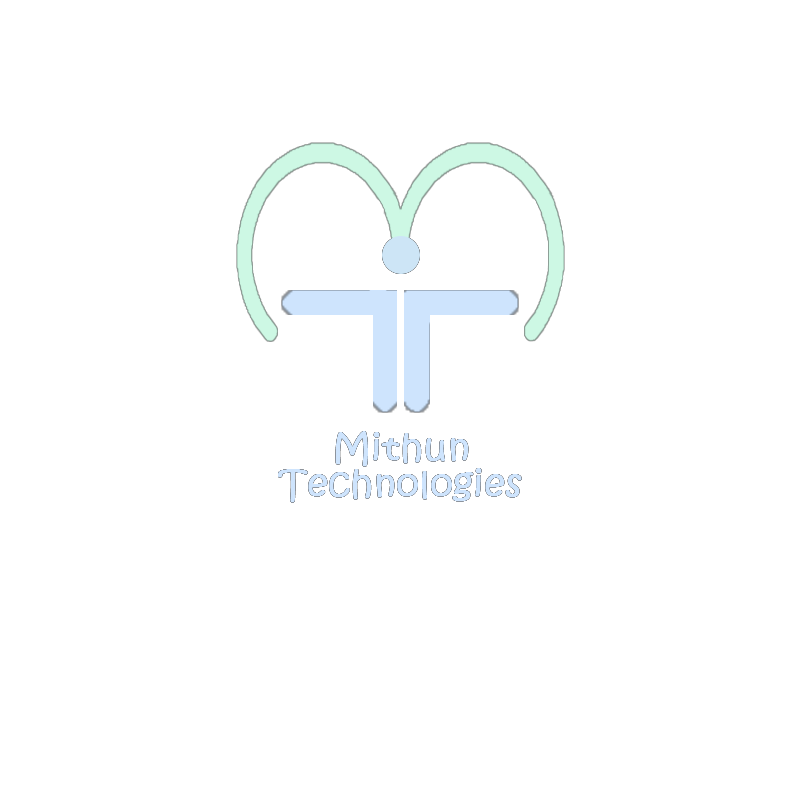
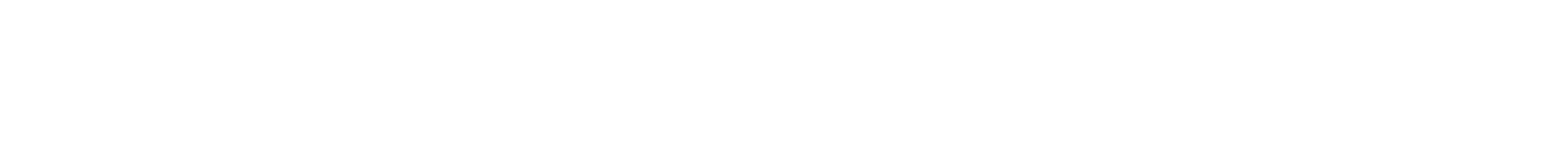
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**How to set the permissions for files or directories? Ans)**

**How to check open ports on local system? Ans)**



**How to check open ports on remote server?**

**Ans)**

**How to check which services are enable across reboot? Ans)**

**What is load average in Linux? Ans)**.

**What is partial backup? Ans)**

**when you select single partition for single folder for backup on your server. Ans)**

**What is the boot process in Linux? Ans)**

**How can we review boot message? Ans)**

**What are the fields in the/etc/passwd file? Ans)**

**How to check which RPM provides/etc/shadow file? Ans)**

**In which file the password are saved for each user? Ans)**

**In which file user information is saved? Ans)**

**What is Inode? What is the use? Ans)**

**/etc/resolve.config**

**Explain and if we not declared here what will happen? Ans)**

**What is Vcpu,if vcpu % more than 1 what will happen? Ans)**

**How you will find out memory details and explain about swap memory? Ans)**

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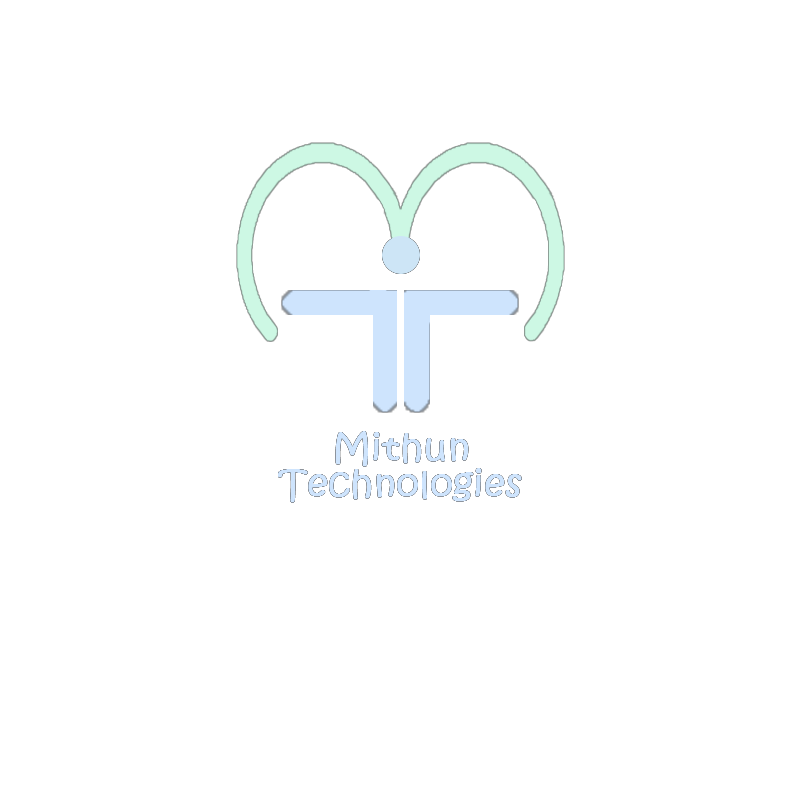
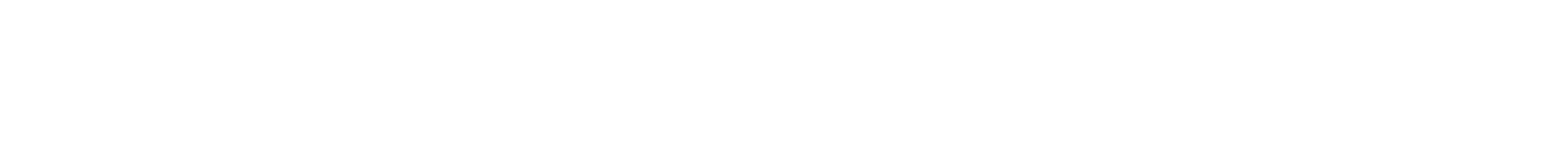
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**Write a command for 5 days older files with extension of .log , those files want to move it different directory?**

**Ans)**

**What is Inode? What is the use of Inode? Ans)**



**Booting process? Explain about run levels? what is default run levels? Ans)**

**How will you find out top ten process? Ans)**

**How to check the CPU utilization? Ans)**

**Difference between Top/HTop? Ans)**

**Directory special permissions? Ans)**

**What is soft link and hard link? How to create? What is the difference between these two? Ans)**

**What is cron tab? Explain it? How to configure the schedule a job? Ans)**

**Explan about Process and threads? Ans)**

**What is zombie proces? Ans)**

**How will you find out what are the files using by particular process? Ans)**

**What is zone file? Ans)**

**What is netstat command in Linux? Ans)**

**How can you prevent anyone from scheduling a cronjob?**

* 1. **Delete the file /etc/cron.deny**
  2. **Create an empty file called /etc/cron.deny**
  3. **Create two empty files: /etc/cron.deny and /etc/cron.allow**
  4. **Create an empty file called /etc/cron.allow Ans)**

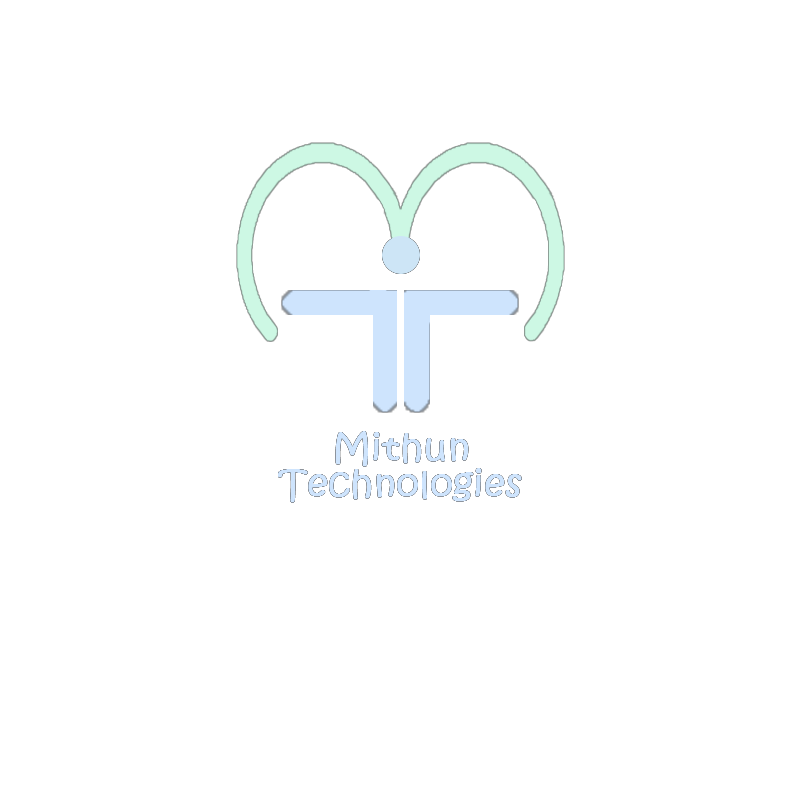
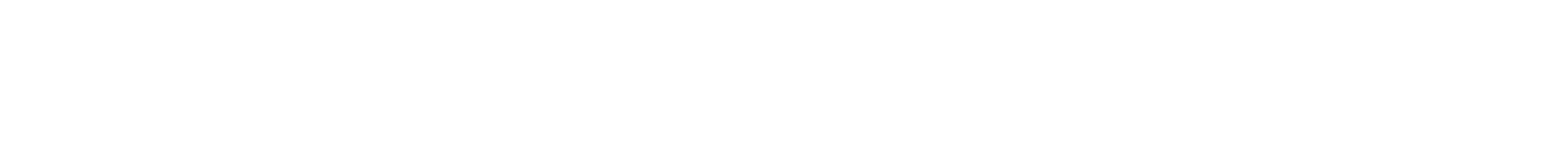
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**Using command substitution, how would you display the value of the present working directory?**

1. **echo $(pwd)**
2. **echo pwd**
3. **$pwd**
4. **pwd|echo Ans)**



**What is nohup command? Ans)**

**How to connect remote servers without password? How to archive this? Ans)**

**How to open file in read only mode in VI editor? Ans)**

**What is mount? How to create mount? Ans)**

**How to trouble shoot live logs? Ans)**

**What is sed command? Ans)**

**What is AWK command Ans)**

**What is grep and egrep? Ans)**

**How to list out the only directories in a Linux? Ans)**

**How to check the process in Linux? Ans)**

**How to allow the ports in Linux? Ans)**

**What is ping? Telnet? Curl? Wget? Ans)**

**How to check the services in Linux machine? Ans)**

**How to kill the process in Linux? Ans)**

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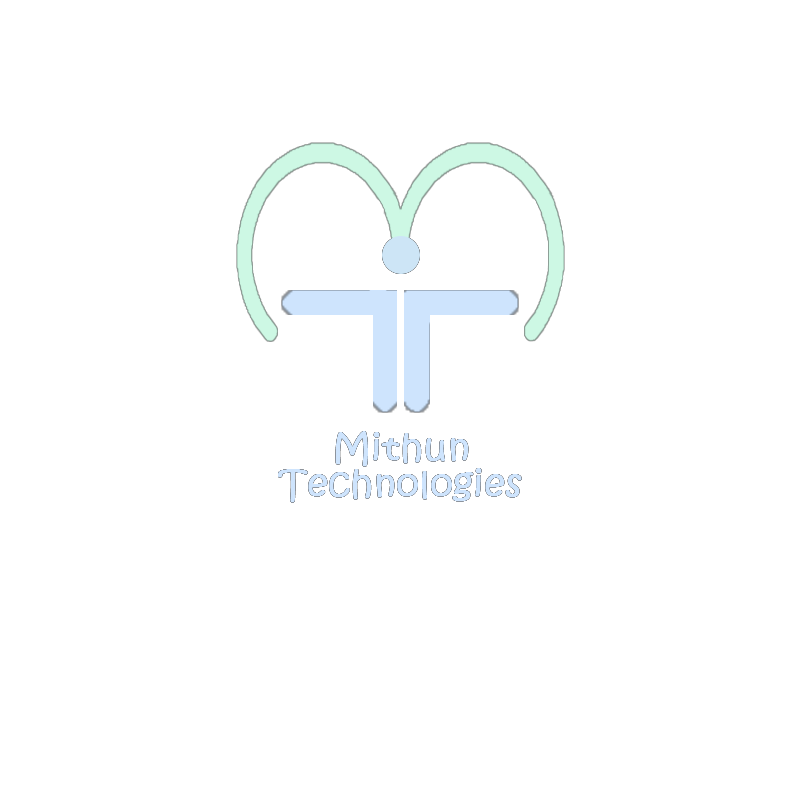
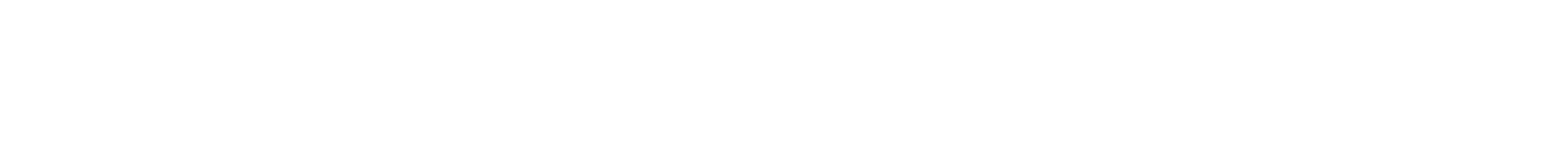
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**What is nice and renice? Ans)**

**How to get the java thread dump? Ans)**

**How to check the running ports? Ans)**



**How to trouble shoot the remote server having some issue? Ans)**

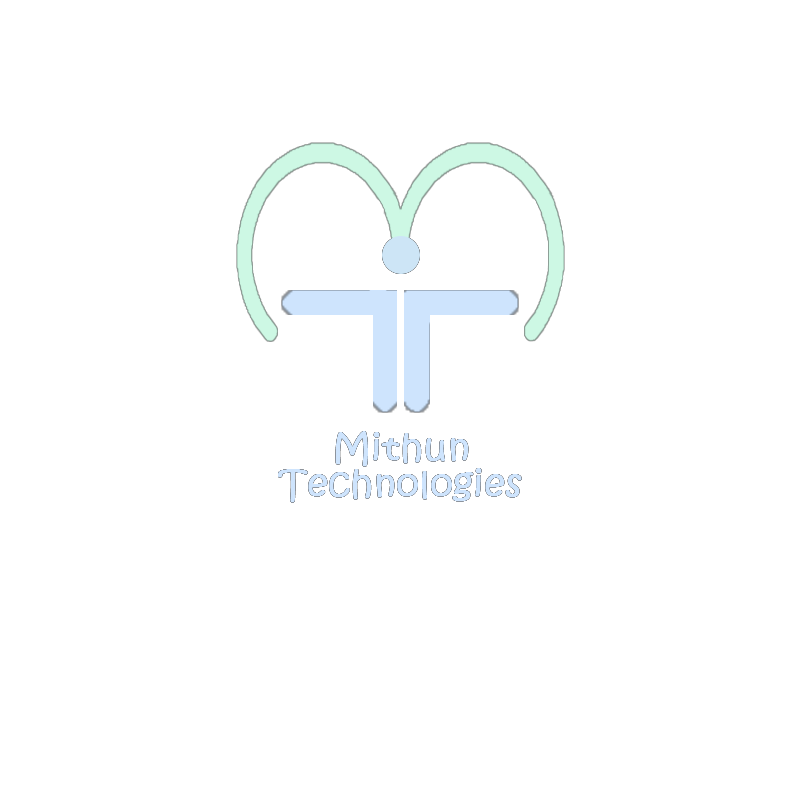
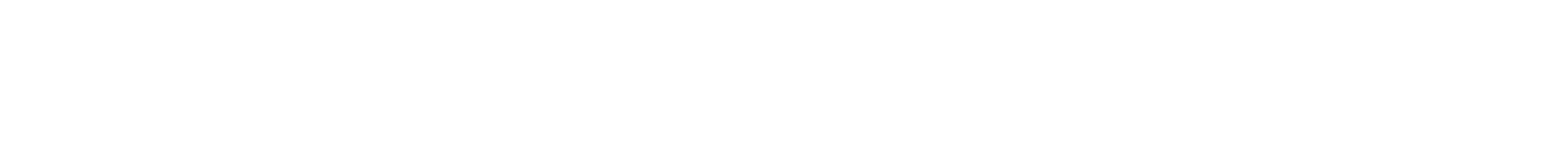
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Mithun Technologies Shell Script Assignment

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# Shell Script Test 1

* 1. What is Shell? Ans)
  2. How to check how many shells that Linux/Unix server will support? Ans)



* 1. What are the different shell types? Ans)
  2. How many types of comments does shell script support? Ans)
  3. What is command line arguments? Ans)
  4. What is the difference between $\* and $@? Ans)
  5. Write down the syntax for if condition? Ans)
  6. Write down the syntax for for loop? Ans)
  7. Write down the syntax for function and write one function and call that function? Ans)
  8. What is the difference between > and >> and < and what is the standard output and standard error codes?

Ans)

* 1. How to display one variable value? Ans)
  2. How many types of variables in Shell scripting? Ans)
  3. Write some System defined variables? Ans)
  4. What is String? Ans)
  5. How to find the length of the given string? Ans)

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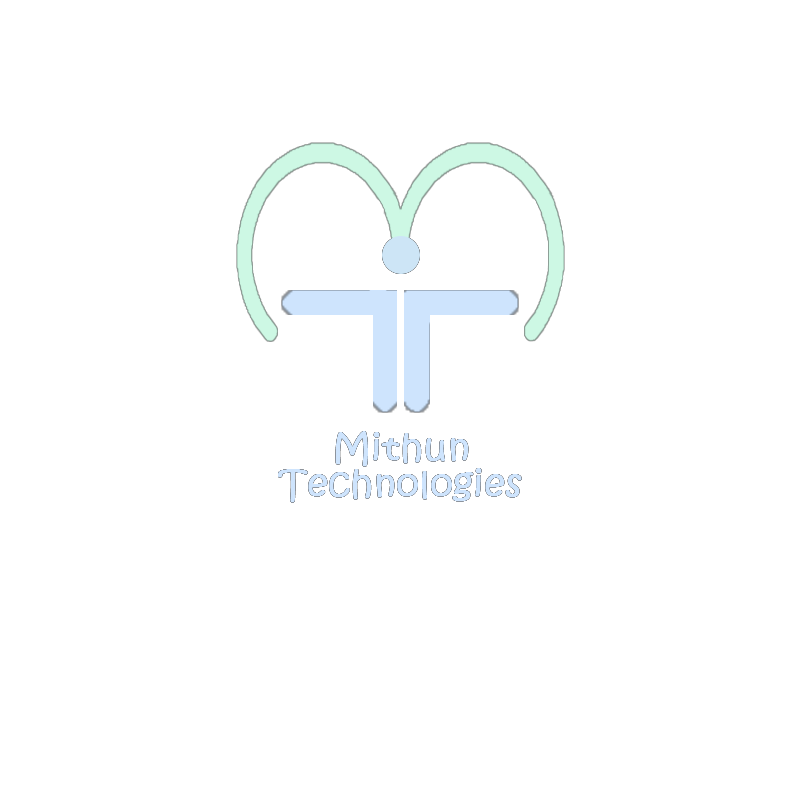
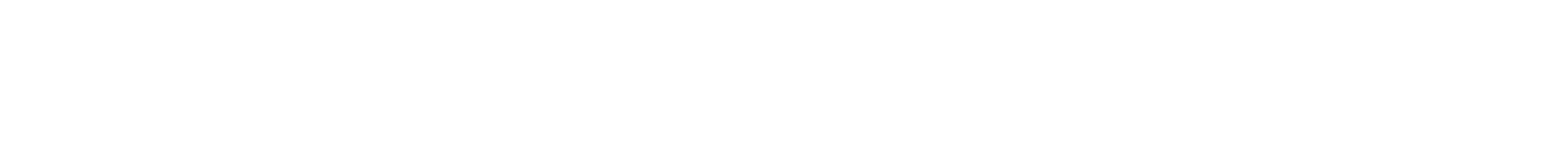
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# Shell Script Test 2

1. Write a shell script to accept the name from name and age from the user and display that back to the user.

Ans)

1. Write a shell script to accept a file name from the user and make a copy of that file. Ans)



1. Write a shell script to accept file name from the user and display the contents of file. If the file doesn't exist then try curbing the error and display a user friendly error to user. Ans)
2. Write a shell script to accept a file name from user and check whether its an ordinary file or a directory. In case of file show the contents of file and if itís a directory show number of files in that directory.

Ans)

1. Write a shell script to accept a file name from user. Check whether file has all the permissions if not assign the respective permissions to that file.

Ans)

1. Write a shell script to accept a file name from the user and sort the file. If the file doesn’t exist curb the error message and show the user-friendly message.

Ans)

# Shell Script Test 3

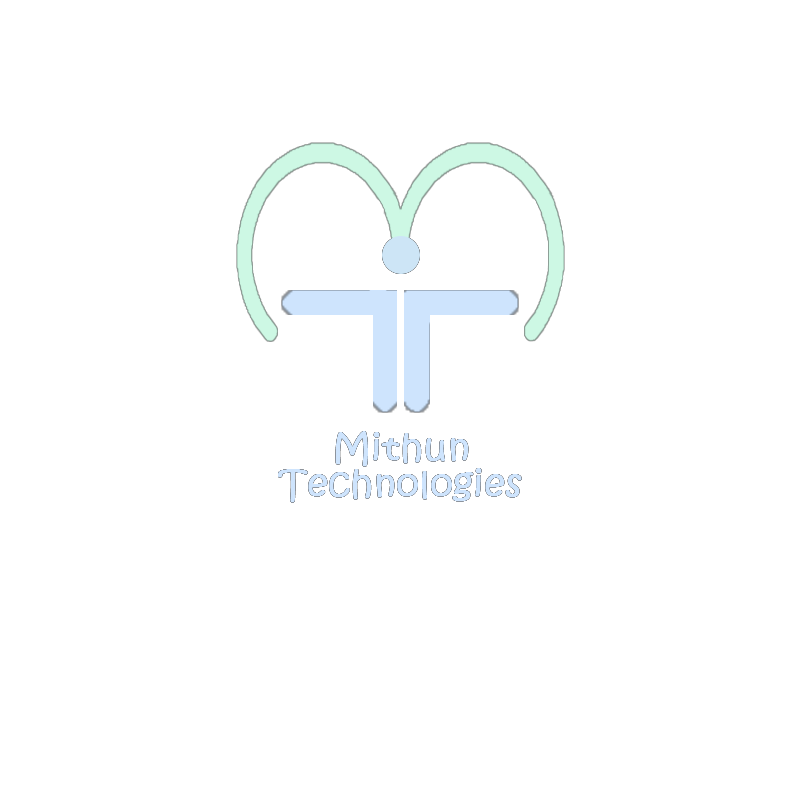
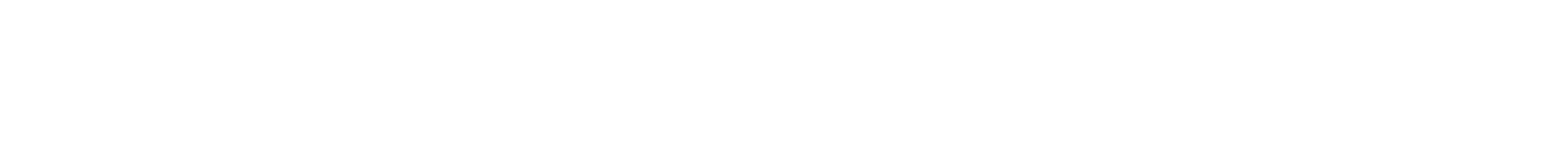
1. What is Shell? Ans)
2. How to check how many shells that Linux/Unix server will support? Ans)
3. What are the different shell types? Ans)
4. How many types of comments does shell script support? Ans)
5. What is command line arguments? Ans)
6. What is the difference between $\* and $@? Ans)

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Mithun Technologies Shell Script Assignment

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1. Write down the syntax for if condition? Ans)
2. Write down the syntax for “for loop”? Ans)
3. Write down the syntax for function and write one function and call that function? Ans)



1. What is the difference between > and >> and < and what is the standard output and standard error codes?

Ans)

1. How to display one variable value? Ans)
2. How many types of variables in Shell scripting? Ans)
3. Write some System defined variables? Ans)
4. What is String?
5. How to find the length of the given string? Ans)
6. Write a shell script to accept the name from name and age from the user and display that back to the user.

Ans)

1. Write a shell script to accept a file name from the user and make a copy of that file. Ans)
2. Write a shell script to accept file name from the user and display the contents of file. If the file doesn't exist, then try curbing the error and display a user friendly error to user. Ans)
3. Write a shell script to accept a file name from user and check whether its an ordinary file or a directory. In case of file show the contents of file and if itís a directory show number of files in that directory.

Ans)

1. Write a shell script to accept a file name from user. Check whether file has all the permissions if not assign the respective permissions to that file.

Ans)

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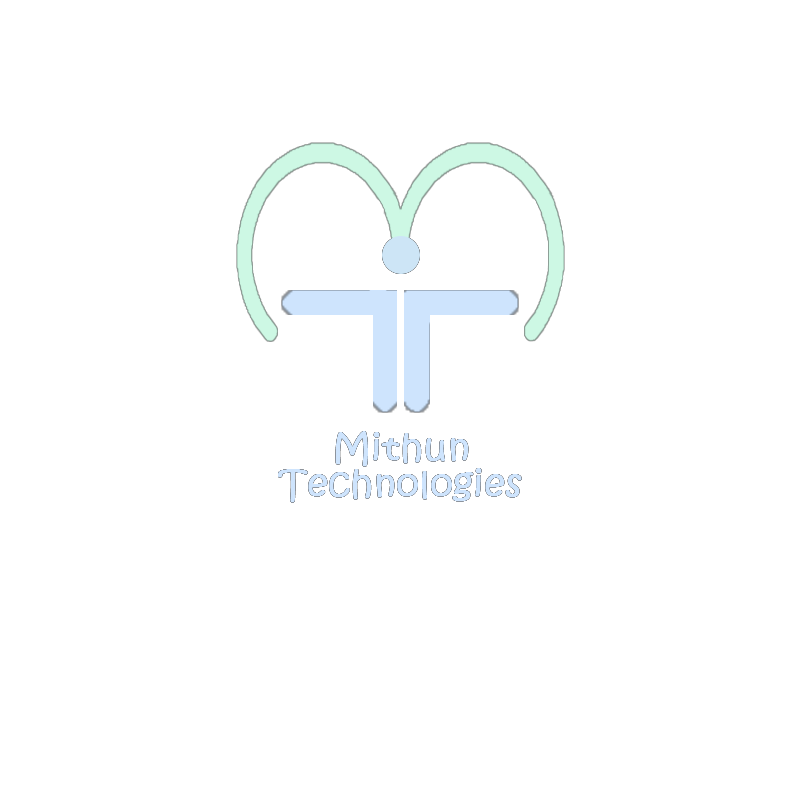
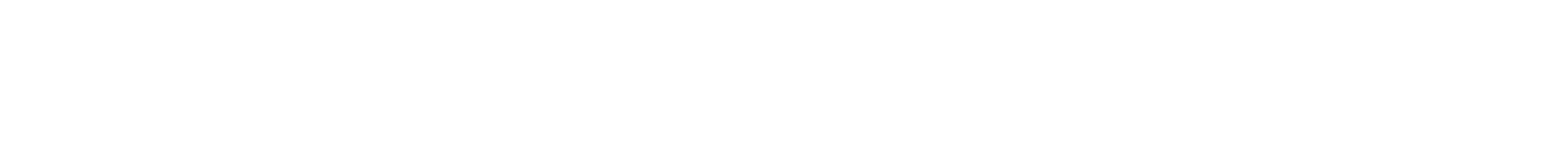
Mithun Technologies Shell Script Assignment

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1. Write a shell script to accept a file name from the user and sort the file. If the file doesn’t exist curb the error message and show the user-friendly message.

Ans)

1. How can you run a shell script in debug mode? --> CricBuzz Ans)



1. **How to run a shell script in background? Ans)**
2. **How to send error logs and stdout logs in different files? Ans)**
3. **How to run a script at boot level? Ans)**
4. **In Shellscript what are the predefined variables are there? Ans)**
5. **How to declare a variable in a shell script? Ans)**
6. **What is $?, $#, $\* ? Ans)**
7. **What is the command for status of last command execution or last command execution status in linux and what is the output of that command?**

**Ans)**

1. **What is the purpose of export command? Ans)**
2. **How to read a command line input in shell script? Ans)**

**Dell**

**-----**

1. **How to find the previous command execution status? Ans)**
2. **How to perform the arithmetic operations in Shell script? Ans)**
3. Write a script (in any scripting language) to find the number of occurrences of the word "Failure" in a file sample.txt and replace all

occurrence of "Failure" to "Success". Ans)

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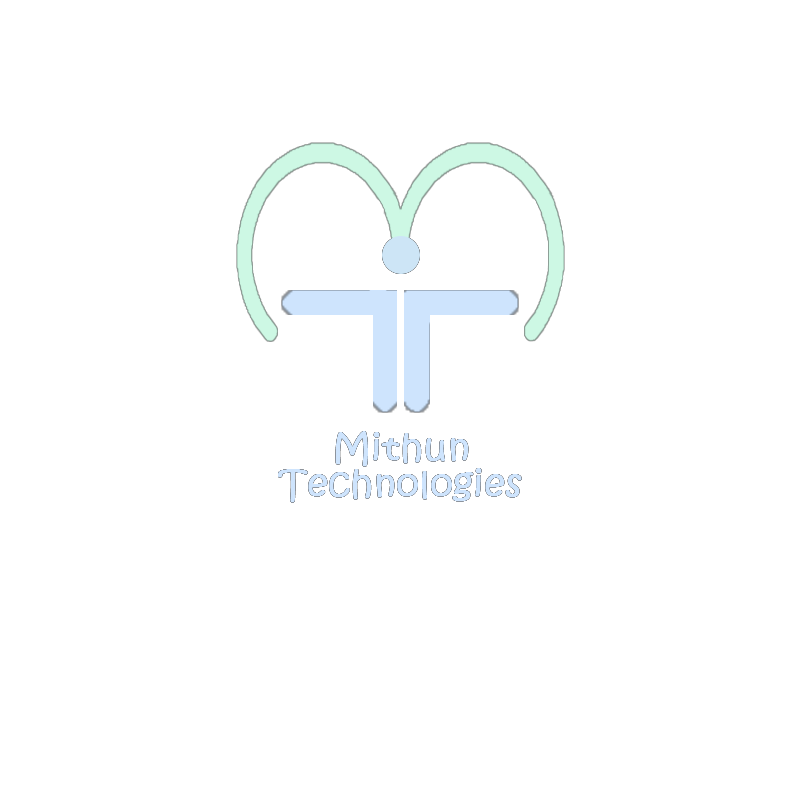
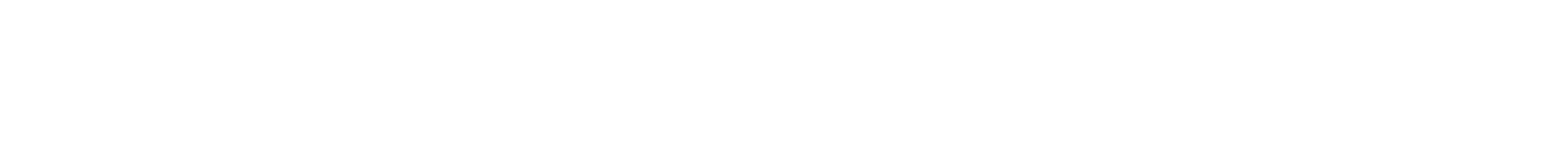
Mithun Technologies Shell Script Assignment

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1. Write a script (in any scripting language) to input "n" number of username as parameters and to find it that user is present or not.

Output should be "Username -Present" or "Username - Not Present"

Example: CheckUser.sh User1, User2,User3,....N Output : User 1 - Present



User 2 - Not Present

User 3 - Logged

Ans)

1. What is the difference between /etc/hosts and /etc/resolve.conf? What are the types of DNS records?

Ans)

1. Write a single Bash or Python or Perl script to check file system usage on Linux host. send an email to the [abc@xyz.com.](mailto:abc@xyz.com) If one or more file system usage is above the threshold.(Ex.85%) - PWC – Written Test.

Ans)

1. Write a bash or Python or PERL script to list the unique shells in /etc/password file and print it string with the number of users using that shell.(Note: shell is the last filed in

/etc/passwd file delimited by ":") --> PWC Ans)

1. There are multiple sub directories under a directory. Ex "/var/tmp/app-code" on a linux host. Those sub directories cobtain one or more XML files. Some of those XML files have an IP address

(EX: 85.) hardcoded.Write a one liner bash command to replace all the occurrences of this IP address wit a variable EX. SIP\_Address in all the files it is existing. --> PWC

Ans)

1. Write a single Bash or Python or Perl script to check file system usage on Linux host.send an email to the [abc@xyz.com](mailto:abc@xyz.com) .If one or more file system usage is above the threshold.(Ex.85%)

What is first line written in shell script? What is the meaning of that? If I didn’t write that line what will happen? --> PWC

Ans)

1. What is the difference between /etc/hosts and /etc/resolve.conf? What are the types of DNS records? --> PWC

Ans)

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