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**Operating System Concepts and
Networking Management**

Prepared by



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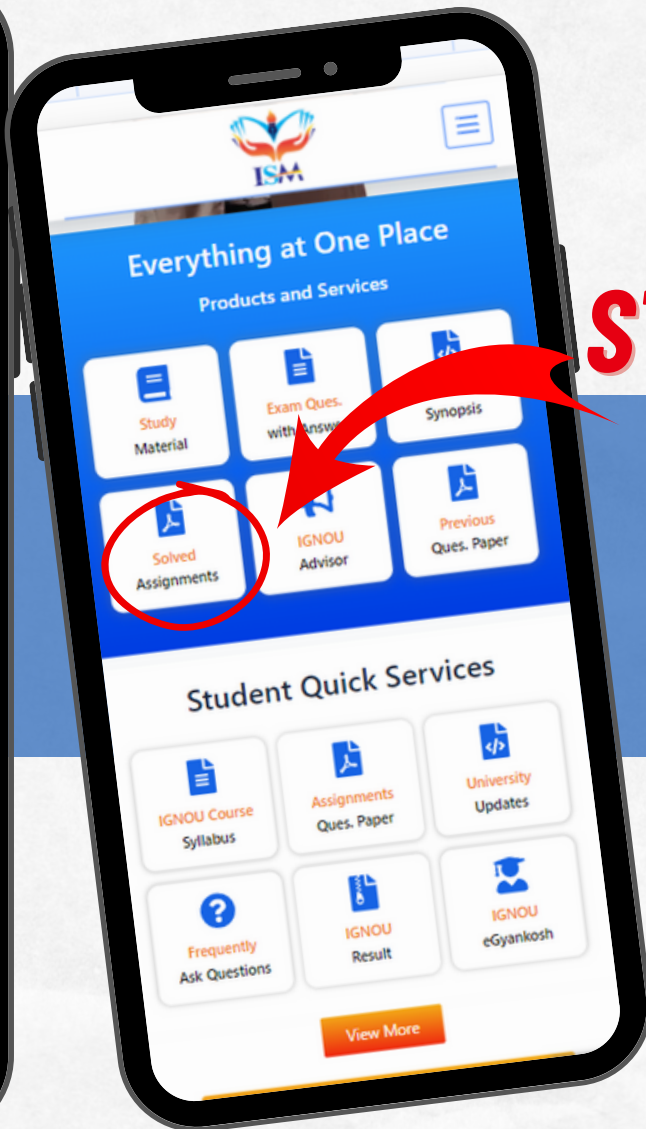
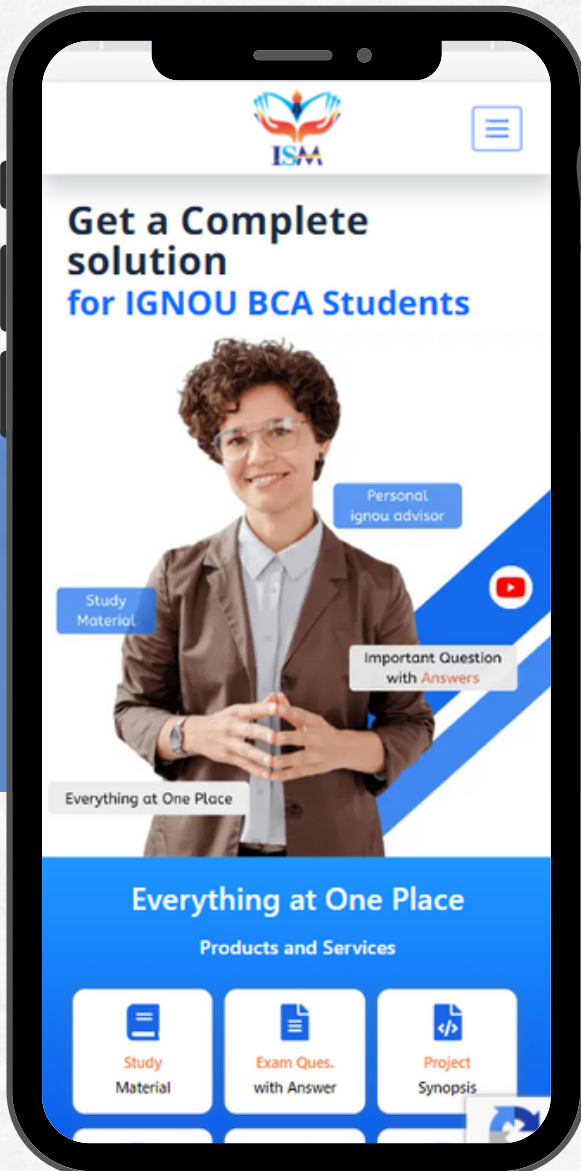


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Ques.4 (a) In Unix/Linux system, access your account available at a remote machine. Download a file from the remote location, modify that file and upload back to the remote machine.

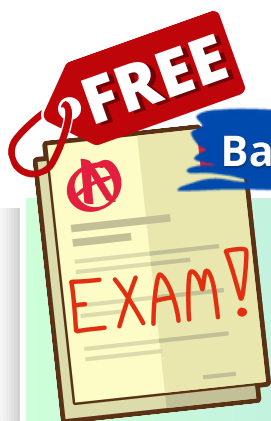
(b) Configure a TCP/IP setting in UNIX/LINUX, Dynamic allocation of IP address need to be used. Also configure the DHCP settings. Explain with step by step procedure.

Ans. a) To access your account on a remote Unix/Linux machine, download a file, modify it locally, and then upload it back to the remote machine, you can use SSH (Secure Shell) for secure remote access and file transfer. Here's a step-by-step guide:

Note : Replace '`<remote_user>`', '`<remote_host>`', '`<remote_file_path>`', '`<local_file_path>`', and '`<edited_file_path>`' with actual values.

1. Access the Remote Machine: Use the following command to access the remote machine via SSH: `bash ssh <remote_user>@<remote_host>`

Replace '`<remote_user>`' with your remote username and `` with the remote machine's hostname or IP address. You will need to enter your password for authentication.



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2. Download the File : Once logged in, navigate to the directory where the file you want to download is located on the remote machine. You can use standard Unix/Linux commands like 'cd' to change directories and 'ls' to list files.

To download a file, use the `scp` (secure copy) command from your local machine:

```
bash scp <remote_user>@<remote_host>:<remote_file_path><local_file_path>
```

Replace '<remote_user>', '<remote_host>', '<remote_file_path>', and '<local_file_path>' with the appropriate values. This command will copy the remote file to your local machine.

3. Modify the Local Copy: Use a text editor or any desired tool to modify the local copy of the file on your local machine.

4. Upload the Modified File: To upload the modified file back to the remote machine, you can use `scp` in reverse:

```
bash scp <local_file_path> <remote_user>@<remote_host>:<edited_file_path>
```

Replace '<local_file_path>', '<remote_user>', '<remote_host>', and '<edited_file_path>' with the appropriate values. This command will copy the modified file from your local machine to the remote machine.

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5. Logout from SSH Session : When you're done, you can exit the SSH session by running the `exit` command:

```
bash exit
```

this will log you out of the remote machine.

Ans.(b) Steps on how to configure a TCP/IP setting in UNIX/Linux, dynamic allocation of IP address need to be used, and configure the DHCP settings:

1. Open the `/etc/network/interfaces` file using a text editor.
2. Find the line that starts with `auto eth0`.
3. Add the following lines after the `auto eth0` line: `iface eth0 inet dhcp`
4. Save and close the `/etc/network/interfaces` file.
5. Restart the network service by running the following command: `sudo service network restart` Once you have completed these steps, your computer will be configured to obtain its IP address dynamically from a DHCP server.

Here are some additional things to keep in mind when configuring DHCP settings:

- * The DHCP server is usually located on the same network as the client computers.
- * The DHCP server provides a pool of IP addresses that can be leased to client computers.
- * The DHCP server also provides other configuration information, such as the subnet mask, default gateway, and DNS server addresses.

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Ques.5 List and execute the following LINUX/UNIX commands:

- (a) To create a file name hello.dat and write "hello world" as file contents and close the file.
- (b) To stop any process using PID.
- (c) To count no. of lines in a given text file.
- (d) To create a file in a sub-directory with name abc.tx

Ans. a) Create a file named `hello.dat` and write "hello world" as file contents and close the echo "hello world" > hello.dat

(b) Stop any process using PID: kill <PID>
where `` is the process ID of the process you want to stop.

(c) Count the number of lines in a given text file: wc -l <file_name>
where `<file_name>` is the name of the text file.

(d) Create a file in a subdirectory named `abc.txt` :
mkdir subdir
cd subdir
touch abc.txt



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The first command creates a subdirectory named `subdir`. The second command changes the current working directory to `subdir`. The third command creates a file named `abc.txt` in the current working directory



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