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Roll No: 3014

- **Viva questions –**

  1. **What are the common methods to transfer files between virtual machines?**
     Common methods include using **SCP (Secure Copy Protocol)**, **SFTP (SSH File Transfer Protocol)**, **rsync**, and shared folders. The choice depends on the operating system and the configuration of the VMs.

  2. **What is SCP, and how does it work for file transfer between virtual machines?**
     SCP (Secure Copy Protocol) allows secure file transfer between computers using SSH. It encrypts the data being transferred and can copy files between remote machines over a network.

  3. **What is rsync, and how is it different from SCP?**
     Rsync is a file transfer tool that can sync files and directories between machines. Unlike SCP, rsync only transfers changed parts of a file, making it more efficient for large transfers.

  4. **How do you ensure security during file transfer between VMs?**
     Using secure methods like **SCP**, **SFTP**, and **rsync over SSH** ensures that data is encrypted during transfer, providing confidentiality and integrity.

  5. **Can you use cloud storage services like AWS S3 or Google Cloud Storage for transferring files between VMs?**
     Yes, cloud storage services can be used to upload files from one VM and download them to another VM. This is often done by configuring the cloud storage as an intermediary location.

- **Skills –**
  1. Utilizing cloud storage as an intermediary for file transfers
  2. Managing security and encryption during file transfer

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- **Gate Questions –**

  1. **Which of the following protocols can be used for transferring files securely between virtual machines?**
     A. HTTP
     B. SCP
     C. FTP
     D. Telnet
     Answer: B

  2. **What is the primary advantage of using rsync over SCP?**
     A. Faster transfer
     B. Encryption
     C. Only changes in files are transferred
     D. Simpler configuration
     Answer: C

  3. **Which SSH port does SCP and SFTP typically use to transfer files between VMs?**
     A. 20
     B. 22
     C. 443
     D. 8080
     Answer: B

  4. **Which of the following commands transfers a file using SCP from VM1 to VM2?**
     A. `scp /path/to/file vm2:/path/to/destination`
     B. `scp /path/to/file user@vm2:/path/to/destination`
     C. `scp vm1:/path/to/file vm2:/path/to/destination`
     D. `scp user@vm1:/path/to/file /path/to/destination`
     Answer: B

  5. **Which command is used to synchronize files between two machines using rsync?**
     A. `rsync file1 user@vm2:/path/to/destination`
     B. `rsync file1 user@vm2:/path/to/destination`
     C. `rsync -avz file1 user@vm2:/path/to/destination`
     D. `rsync -r file1 user@vm2:/path/to/destination`
     Answer: C

- **Extra Learning –**

  1. Introduction of transfer files between virtual machines.

  2. Understand Linux Command Line and Shell Scripting.