SSN COLLEGE OF ENGINEERING

Department of Computer Science and Engineering

CS8711 Cloud Computing Laboratory

1. Create a Cluster containing 2 nodes and check whether communication and remote login can be done among nodes without password.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

2. Install two Virtual Machines, VM1 with Server OS and VM2 with Desktop [Ubuntu / CentOS]. Do these operations on the VMs

1. Display the IP address of two VMs
2. Ping among VMs
3. Using SSH login VM1 from VM2

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

3. Install two Virtual Machines, VM1 with Server OS and VM2 with Desktop [Ubuntu / CentOS]. Do these operations on the VMs

1. Display the IP address of two VMs
2. Ping among VMs
3. Using SSH login VM1 from VM2 without using password

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					
B					

4. Create a Cluster of 3 VMs.

Configuration:

VM1 : Ubuntu 16.04 LTS Server

VM2 : Ubuntu 16.04 LTS Server

VM3 : Ubuntu 16.04 Desktop

Do. 1. Transfer a file from VM1 to VM2

2. Receive a file from VM2, while using VM3.

3. Remotely login and check the files.

4. Transfer a folder from VM2 to VM3.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

5. Install two Virtual Machines, VM1 with Desktop OS and VM2 also with Server [Ubuntu]. Do these operations on the VMs

1. Display the IP address of two VMs

2. Ping among VMs

3. Using SSH login VM1 from VM2

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

6. Install Virtual Machine [Ubuntu / CentOS Desktop], run a C / C++ program - Counting of words in a given file.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

7. Install Virtual Machine [Ubuntu / CentOS Desktop], install jdk for java and run a sample Java program

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					
B					

8. Create a Cluster of 2 VMs.

Configuration:

VM1 : Ubuntu 16.04 LTS Server

VM2 : Ubuntu 16.04 Desktop.

Do. 1. Install Java in VM2

2. Remotely login from VM1 to VM2 (password-less)and run a Java program

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

9. Create a Cluster of 2 VMs.

Configuration:

VM1 : Ubuntu 16.04 LTS Server

VM2 : Ubuntu 16.04 LTS Server

Do. 1. Remotely login and check the files - without entering the password

2. Transfer a file from VM1 to VM2

3. Transfer a folder from VM2 to VM1.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

10. Install Hadoop in a VM and check whether it is correctly installed.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

11. Create a Cluster of 2 VMs.

Configuration:

VM1 : Ubuntu 16.04 LTS Server

VM2 : Ubuntu 16.04 Desktop.

Do. 1. Install Java in VM2

2. Remotely login from VM1 to VM2 and run a Java program

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

12. Install two Virtual Machines, VM1 with Server OS and VM2 with Desktop [Ubuntu / CentOS]. Do these operations on the VMs

1. Display the IP address of two VMs
2. Ping among VMs
3. Using SSH login VM1 from VM2

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

13. Install Hadoop [Single node] in a VM display the list of active services.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

14. Install Hadoop [Single node] in a VM and access the resources through Web Browser.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

15. Create a Cluster containing 2 nodes and check whether communication and remote login can be done among nodes without password.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

16. Install Virtual Machine [Ubuntu / CentOS Desktop], run a sample C / C++ program to perform read and write operations in a file.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

17. Install Virtual Machine [Ubuntu / CentOS Desktop], run a sample Python program to perform read and write operations in a file

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

18. Install Virtual Machine [Ubuntu / CentOS Desktop], run a C / C++/ Java program

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					
B					

19. Create a Cluster of 2 VMs.

Configuration:

VM1 : Ubuntu 16.04 LTS Server

VM2 : Ubuntu 16.04 Desktop.

Do. 1. Install Java in VM2

2. Remotely login from VM1 to VM2 without using password and run a Java program.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

20. Install Virtual Machine [Ubuntu / CentOS Desktop], run a sample Java program

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					
B					

21. a. Create a Cluster of 3 VMs.

Configuration:

VM1 : Ubuntu 16.04 LTS Server

VM2 : Ubuntu 16.04 LTS Server

VM3 : Ubuntu 16.04 Desktop

Do. 1. Transfer a file from VM1 to VM2

2. Receive a file from VM2, while using VM3.

3. Remotely login and check the files.

4. Transfer a folder from VM2 to VM3.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

22. a. Create a Cluster of 2 VMs.

Configuration:

VM1 : Ubuntu 16.04 LTS Server

VM2 : Ubuntu 16.04 Desktop.

Do. 1. Install Java in VM2

2. Remotely login from VM1 to VM2 and run a Java program

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

23. a. Create a Cluster of 2 VMs.

Configuration:

VM1 : Ubuntu 16.04 LTS Server

VM2 : Ubuntu 16.04 Desktop.

Do. 1. Install Java in VM2

2. Remotely login from VM1 to VM2 and run a Java program

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

24. Install Google App Engine. Create hello world app using python / java and deploy in Google server.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

25. Install Google App Engine. Create web application using python / java and deploy in Google server.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

26. a Install two Virtual Machines, VM1 with Server OS and VM2 with Desktop [Ubuntu / CentOS]. Do these operations on the VMs

1. Display the IP address of two VMs
2. Ping among VMs
3. Using SSH login VM1 from VM2

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

27. Simulate a cloud scenario using CloudSim.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					

28. Implement a scheduling algorithm and include in the CloudSim package.

Q. No	Installation [40]	Procedure [30]	Documentation [20]	Record [10]	Total [100]
A					