Ansible Lab

1. The aim in this lab is to create a booking website which is orchestrated from client system to the webserver and the data log or database can be viewed in DB system.

You can find all the necessary files on GitHub link--<https://github.com/dushyant8858/Ansible>

2.Our Environment contains three systems vm. client, webserver, database which will be spun using Vagrant and Virtual Box.

3. The VagrantFile is edited in such a way that all 3 VM’s will be created just by executing one file which is present on GitHub.

4. Then we ssh the client server and in order to access to the web and db machines, hostname and IP addresses of the same were added to /etc/hosts of the client’s machine.

5. We want to access the VMs without interruption of passwords, so the ssh public key of client is copied to webserver machine and DB machine.

6. This will be done by creating SSH-keygen on client machine and then by coping the public key to webserver and DB by using the command ssh-copy-id webserver/ssh-copy-id DB.

7. To automate the process, Ansible is installed in the client system.

8. To connect the ansible commands with webserver and DB, hostnames should be added to the /etc/ansible/hosts. All the IP addresses should be grouped under respective groups.

9. All the tasks will performed on client machine in such a way that the playbook instructed the client machine to perform tasks on webserver machine and DB machine.

All the Playbooks and necessary Application and database file are there in the GitHub repository

10. The playbook application.yml has many errors. The errors should be rectified and executed after troubleshooting it.

11. The command used to run the playbook:

ansible-playbook -s /vagrant/application.yml

12. The file will copied to /vagrant directory as it is the shared directory.

13. The playbook is interlinked with the DB machine in a such a way that all the bookings data could be reflected in the DB machine.

14. The DB machine is coded with SQL database system and is linked using booking.sql code.

15. Even the booking.sql file required some error rectification, and then was executed.

16. After completing all these steps, the website will now be finally up and running and will working as required.

17. The database can verified by using the commands as follows:

mysql -u dushyant\_user -pdushyant\_password -h 192.168.33.30

mysql -u dushyant\_user -pdushyant\_password

The **Wh rule????**

1. What did you do in this lab?
2. What problems did you encounter?
3. How did you solve this problem?
4. What aspects of the labs were unclear?