**Introduction to Ansible**

**Topics Discussed**

1. Install LXC on ubuntu 20.04
2. Environment setup for LXC
3. create,start,attach and destroy a container
4. Create a bridge for LXC container
5. IP configuration for LXC containers
6. Backup containers
7. Restore containers

**Install Ansible:**

**For installing Ansible type following command:**

***sudo apt-get update***

The APT package repository cache should be updated. Now, install Ansible with the following command:

***sudo apt install ansible***

To use ansible openssh-client must be installed on your host machine, if not then run following command:

***sudo apt install openssh-client***

**Environment Setup:**

In environment setup we have to concern in two sections

1. Controller PC/Local Machine
2. Hosts/node

**We will configure hosts/node first**

Step 1: Install openssh-server in every host. If any problem occurs please follow ssh documentation

Step 2: Create a user ansible in every host pc

Step 3: Allow password less sudo access for user ansible. Append following line in visudo

***nano visudo***

***ansible ALL=(ALL) NOPASSWD:ALL***

Step 4: Generate SSH key in every hosts

***ssh-keygen***

**Controller PC/Local Machine**

In controller PC we have to declare hosts first, this can be done in two ways

1. globally
2. locally

To declare host globally we have to change following fie

***nano etcansible/hosts***

Append this lines

***[database]***

[***zahidvm@192.168.2.102***](mailto:zahidvm@192.168.2.102) ***//if username is not ansible then mention username otherwise just ip***

***[web]***

[***zahid@192.168.2.108***](mailto:zahid@192.168.2.108)

To declare host globally we have to add a file ansible.cfg

cd to project location

***nano ansible.cfg***

***[defaults]***

***inventory = hosts***

***host\_key\_checking = False***

***then add hosts file***

***nano hosts***

***[database]***

[***zahidvm@192.168.2.102***](mailto:zahidvm@192.168.2.102) ***//if username is not ansible then mention username otherwise just ip***

***[web]***

[***zahid@192.168.2.108***](mailto:zahid@192.168.2.108)