## Slurm Assignment:HemanthReddyYaramala

1. Create the instance with EBS volume 20GB.

```
nth@sh01:~$ aws cloudformation describe-stacks --stack-name csye-hemanth-c04
           "StackId": "arn:aws:cloudformation:us-east-1:332987686862:stack/csye-hemanth-c04/c2f3c020-d4ef-11ed-9c19-124518f13765",
           "StackName": "csye-hemanth-c04",
"Description": "AWS CloudFormation Template EC2 Instance",
"Parameters": [
                      "ParameterKey": "KeyName",
"ParameterValue": "CSYE7374Spring23"
                      "ParameterKey": "VpcId",
"ParameterValue": "vpc-07ca61e3eaaf4073d"
                      "ParameterKey": "SubnetBId",
"ParameterValue": "subnet-0583ac8cb2fda0cb1"
                      "ParameterKey": "InstanceTypeT3S",
"ParameterValue": "t3.small"
                      "ParameterKey": "AssetNameDC01",
                       "ParameterValue": "csye-hemanth-c04"
                      "ParameterKey": "EBSSize20G",
                       "ParameterValue": "20"
                      "ParameterKey": "UbuntuImageId",
"ParameterValue": "ami-083654bd07b5da81d"
           ],
"CreationTime": "2023-04-07T02:56:15.227Z",
           "RollbackConfiguration": {},
"StackStatus": "CREATE_COMPLETE",
"DisableRollback": false,
"NotificationARNs": [],
           "Capabilities": [
"CAPABILITY_IAM"
          ],
"Tags": [],
```

## 2. Cron ind WS uptime less than 48 hours per week

This cronjob will automatically start and stop the instance which is less than 48 hours per week

```
Setting a cron job to only start EC2 at work period
```

```
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow command
0 9-17 * * 1-5 aws ec2 start-instances --instance-ids i-0586645de35467026
0 18 * * 1-5 aws ec2 stop-instances --instance-ids i-0586645de35467026
```

## 3. Configure ind WS as the Slurm work node of cluster p01, refer to

## cmdDemo example

```
hemanth@sh@i:/a/util/ansible$ ansible-playbook —e vh=$(hst) —e tk=newWn c74.yml

PLAY (i-hemanth) ***

TASK (Gathering Facts) ***

ok: (i-hemanth) ***

TASK (C74 : Populate service facts) ***

changed: (i-hemanth) => (item=opkg --configure -a)

TASK (C74 : install OS packages] ***

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changed: (i-hemanth) => (item=opkg --configure -a)

TASK (C74 : apt autoremove autoclean) **

ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/fstab', 'owner': 'root', 'group': 'root', 'mode': '0644', 'backup': True))

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ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/sudors', 'owner': 'root', 'group': 'root', 'mode': '0644', 'backup': True))

ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/sudors', 'owner': 'root', 'group': 'root', 'mode': '0644', 'backup': True))

ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/sudors', 'owner': 'root', 'group': 'root', 'mode': '0644', 'backup': True))

ACK (C74 : push default unified files) **

ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/sudors', 'owner': 'root', 'group': 'root', 'mode': '0644', 'backup': True))

ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/sudors', 'owner': 'root', 'group': 'root', 'mode': '0446', 'backup': True))

ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/sudors', 'owner': 'root', 'group': 'root', 'mode': '0446', 'backup': True))

ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/sudors', 'owner': 'root', 'group': 'root', 'mode': '0446', 'backup': True))

ok: (i-hemanth) => (item=('scc': 'stabs', 'dest': '/etc/sudors', 'owner
```

```
| Comparison | Com
```