Action Item on 04-16-2016

**Use case:**

**Install Docker CE, dependencies and enable it for start on boot. Verify with installing images locally on the system.**

**Docker CE Installation steps:**

sudo yum install -y yum-utils device-mapperpersistent-data lvm2

sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo

sudo yum install docker-ce

Add user to docker group

sudo usermod –aG docker <username>

**Start Docker daemon**

sudo systemctl enable docker && sudo systemctl start docker && sudo systemctl status docker

**Pull images**

**docker pull <image name>**

**docker images**

**Running images:**

**docker run --name <container name>-d httpd**

**docker logs <container name>**

**docker exec <container id> command**

**Work on 4/22.2018**

**Configure SWARM cluster and run HTTPD service**

1. **docker swarm init**
2. **Join the nodes to the manager**
3. **Pull the image**

**docker pull httpd:latest**

1. **Create docker-compose.yml file**
2. version: "3"
3. services:
4. web:
5. # replace username/repo:tag with your name and image details
6. image: username/repo:tag
7. deploy:
8. replicas: 5
9. resources:
10. limits:
11. cpus: "0.1"
12. memory: 50M
13. restart\_policy:
14. condition: on-failure
15. ports:
16. - "80:80"
17. networks:
18. - webnet
19. networks:
20. webnet:

**5) deploy the stack using below commands**

**docker stack deploy -c docker-compose.yml getstartedlab**

**6) check service status**

**docker service ls**

**7) check container status**

**docker container ps**