DCA - Enterprise

Install Mirantis container runtime:

1. Uninstall docker CE
   a. `apt update`
   b. `apt remove docker-ce docker-ce-cli`
2. Install Docker EE
   a. Download installer binaries:
      i. `wget https://repos.mirantis.com/ubuntu/dists/bionic/pool/stable-20.10/amd64/containerd.io_1.5.7-1_amd64.deb`
      ii. `wget https://repos.mirantis.com/ubuntu/dists/bionic/pool/stable-20.10/amd64/docker-ee-cli_20.10.8~3-0~ubuntu-bionic_amd64.deb`
      iii. `wget https://repos.mirantis.com/ubuntu/dists/bionic/pool/stable-20.10/amd64/docker-ee_20.10.8~3-0~ubuntu-bionic_amd64.deb`
   b. Note: Please browse for installers compatible with your OS (`cat/etc/os-release`)
   c. Install the packages IN THE FOLLOWING SEQUENCE
      i. `dpkg -i containerd.io_1.5.7-1_amd64.deb`
      ii. `dpkg -i docker-ee-cli_20.10.8~3-0~ubuntu-bionic_amd64.deb`
      iii. `dpkg -i docker-ee_20.10.8~3-0~ubuntu-bionic_amd64.deb`
3. Verify the installation:
   a. `docker version` -> should give “Mirantis Container Runtime” in the version
   b. `docker run hello-world`

Install Mirantis UCP

1. Follow these steps in the **master machine**
2. Ensure Mirantis Container runtime is already installed
3. Install the UCP
4. `docker run --rm -it --name ucp-install -v /var/run/docker.sock:/var/run/docker.sock mirantis/ucp:3.4.4 install --host-address <your master IP Address> --controller-port 446 --interactive --force-minimums`
5. During the execution of the above command, set an Admin username and password.
6. Browse to https://localhost:446 to visit the UCP application. Login using your chosen credentials
7. Now, please remove the UCP installation

a. `docker container run --rm -it --name remove-ucp -v /var/run/docker.sock:/var/run/docker.sock mirantis/ucp:3.4.4 uninstall-ucp --interactive`

Bootstrap UCP

1. Enable passwordless SSH from master to all machines
    a. On master, As Root, generate ssh keypair : `ssh-keygen`
    b. Copy over the public key to all the machines
        i. Print the content of public key and copy

    `cat .ssh/id_rsa.pub`

    ```
    ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDZpFP8W2kg824dmtfNKKpZgJVZHzw2iQq4QPRX8VMEW0M7MZF70shHygz6ja6BXl5CwR6DcQ2v5aPzy7WbHqCaUwdVsSpd0amUNR9RYmQoBbHG2XexBPGzqPkFIZeuSG5fAWv37suN2pNCEdJr4Rfy2SsGtbwJB+wJrgoPki6CyqT4FFqpWambcnSNI+aTGgVfvpsOVYV4QT5JgT/MJPusFmsZFsPhNVAShrZqVXD2ftuASZxu5cKRf1GtuSt7qREg0gLk+S/Vb+J7slWeGTlNIGNnygaN3XB3lliI6T7C77YH26zG7dqaVyBmxJR9mjU+cTauD+Np3ufmsqz8QxdR root@ip-172-31-26-172
    ```

        ii. As Root, Paste this key in the `.ssh/authorized_keys` file on all the machines (master, worker1 and worker2)
2. Download bootstrap tool
    a. `wget https://github.com/Mirantis/launchpad/releases/download/1.3.0/launchpad-linux-x64`
    b. `chmod 777 launchpad-linux-x64`
    c. `./launchpad-linux-x64 register`
3. Create launchpad.yaml file

```
apiVersion: launchpad.mirantis.com/mke/v1.4
kind: mke
metadata:
  name: my-mke-cluster
spec:
  hosts:
  - ssh:
      address: <IP Address of master>
      user: root
      port: 22
      keyPath: ~/.ssh/id_rsa
    role: manager
  - ssh:
      address: <IP Address of worker 1>
      user: root
      port: 22
```

```
    keyPath: ~/.ssh/id_rsa
  role: worker
- ssh:
    address: <IP Address of worker 2>
    user: root
    port: 22
    keyPath: ~/.ssh/id_rsa
  role: worker
mke:
  version: 3.4.6
  adminUsername: admin
  adminPassword: password
  installFlags:
  - --default-node-orchestrator=kubernetes
  - --force-minimums
mcr:
  version: 20.10.0
cluster:
  prune: false
```

4. `./launchpad-linux-x64 apply`
5.