Portainer – UI for Docker Management

GUI Tools for Container Mgmnt

- Managing increasing number of containers manually is not easy

- Wide choice of UI tools for docker/container management – Kitematic, Dockstation, Rancher, Portainer, Shipyard etc

- Simple & effective tool for Docker Management - Portainer

Portainer

- Can be installed as Docker container or in standalone mode
- Web-UI to easily manage Docker images, container, volumes, inspect containers etc
- Built using Docker APIs and has community edition as well

Portainer – Docker container

- Portainer can be run as docker container
- Create a volume first for storing portainer data

>docker volume create portainer_data

- Launch portainer by attaching this data volume

>docker run -d -p 9000:9000 -v /var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer

Portainer – Docker container

- Runs by default on port 9000
- Access portainer at: http://DOCKER_IP:9000
- Set admin first time

Portainer – Exercise

- Using portainer
  - Create a docker volume –> 'alpine_data'
  - Spin up an alpine container 'write-alpine' and mount this volume as /data with WRITE permission
  - Spin up another alpine container 'read-alpine' and mount this volume as /data with READ permission
  - Attach to the both containers and try writing to them