Container as a Service

Team 3

Demo 1: (User Accounts)

- User Signup - passing
- User login - passing

Demo 2 (Container reservations)

- Create Reservation: passing
  - Steps:
    - 1 - choose image
    - 2 - choose memory and CPU limit
    - 3 - Choose date and time
    - 4 - Create reservation
- SSH into the provided IP address and port – passing.
- Delete Reservation passing
  - Now the ssh should fail

Demo 3 (Load Balancing)

- Load Balancing: passing
  - Create many containers. (More containers will lead to more accurate results)
  - Login as admin.
  - The ratio of capacity and current load of the containers should be approximately equal.

Demo 4: (Persistent Storage)

- Create a reservation
- SSH to the container
- Cd /root/
- Create a file.
- The file should be visible at master in directory /home/master/shared/<container_name>
- -- Passing

Demo 5: Health checks

- Container: passing.
  - Kill any container on a server
  - Wait.
  - Login as admin.
  - Check the health of the container.

  Server:

  Pull out the ethernet plug from server-2 or server-3. Don’t plug out server-1 since it has the docker registry running. (Note some container names from this server. Create some files on these containers. This will be helpful in demo of migration feature)

  The node’s status shall be reflected in admin console.

Demo 6: Container Migration

- The previous step would have initiated the migration of containers from the node which is down, to an available node.
- Wait for the migration to finish.
- Ssh into a previous container.
- Cd /root/
- The files should be present there.
- Verify the new node from admin console.