Meerkat training

Setting up Meerkat system

Jonathan & Jyri

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Contents

1. Introduction

- In this training, we'll set up a demo Meerkat system for fictional Null Island
- All the data is generated from random number generator or brought from made up test cases
- Due to bandwidth limitations, the setup will be done using Docker image files distributed via shared folders or USB pen drives
- Windows setup for Meerkat system is slightly more complicated than for Linux
- Installing the Meerkat system is more straightforward when done in an environment with high bandwidth

Transfering and loading ISO image files

- Move the following ISO files to your disk:
  - dynamodb.iso
  - meerkatdemo_abacus.iso
  - meerkatdemo_api.iso
  - meerkatdemo_auth.iso
  - meerkatdemo_frontend.iso
  - meerkatdemo_hermes.iso
  - meerkatdemo_nginx.iso
  - postgis.iso
  - rabbitmq.iso
- Move the following script file to same folder with the ISO files:
  - load_images.sh
- Run the script file from Docker terminal by entering:
  - ./load_images.sh

Copying source code and launching system

- Copy folder meerkat-code to your disk
- With Docker terminal, go to folder meerkat-code/meerkat_demo
- Run the following command:
  - docker-compose up -d

Configuring virtual machine ports

- Launch Windows program VirtualBox
- Select virtual machine “default”
- Go to Settings
- In settings, select “Network”
- In “Adapter 1” tab, expand the “Advanced” view
- Click “Port Forwarding”
- Add the following 2 port forwarding rules:

Name	Protocol	Host IP	Host Port	Guest IP	Guest Port
Rule 1	TCP	127.0.0.1	80		80
Rule 2	TCP	127.0.0.1	8889		8889