OKIT DEMO Steps:

How to Install OKIT on a Native Oracle Linux VM

Link to OKIT Documentation: [https://github.com/oracle/oci-designer-toolkit/blob/master/documentation/Installation.md](https://github.com/oracle/oci-designer-toolkit/blob/master/documentation/Installation.md#config-file)

ssh into LinuxVM

cd .oci (<mkdir ~/.oci>)

Generating an API Signing Key:

<https://docs.oracle.com/en-us/iaas/Content/API/Concepts/apisigningkey.htm>

Once generated, upload the public key to IAM (Add API Key in console).

Copy the new config file from the console

Paste contents into ~/.oci directory:

vi config (creates new file in vim editor)

press ‘I’ to insert

paste the new config file

EXAMPLE:

[DEFAULT]  
user=ocid1.user.oc1..aaaaaaaa--<truncated>--------------  
fingerprint=99:38:cf:7d--------<truncated>--------------  
tenancy=ocid1.tenancy.oc1..----<truncated>--------------  
region=eu-frankfurt-1  
key\_file=~/.oci/oci\_api\_key.pem

Press ‘esc’ then type ‘:wq’ (to exit vim editor)

Now, the ~/.oci directory should include all 3 files:

config

oci\_api\_key.pem

oci\_api\_key\_public.pem

Run the following instructions (from [https://github.com/oracle/oci-designer-toolkit/blob/master/documentation/Installation.md](https://github.com/oracle/oci-designer-toolkit/blob/master/documentation/Installation.md#config-file)) to install OKIT in the root directory /okit:

(this should take about 10 min the first time through).

export OKIT\_DIR=${HOME}/okit

export OKIT\_GITHUB\_DIR=${HOME}/okit\_github

export OKIT\_BRANCH='master'

mkdir -p ${OKIT\_DIR}

mkdir -p ${OKIT\_GITHUB\_DIR}

# Install Required Packages

sudo bash -c "yum update -y"

sudo bash -c "yum install -y git"

sudo bash -c "yum install -y openssl"

sudo bash -c "yum install -y oci-utils"

# This is not required for OL8

sudo bash -c "yum install -y python-oci-cli"

# Update Python Modules

sudo bash -c "python3 -m pip install -U pip"

sudo bash -c "python3 -m pip install -U setuptools"

# Clone OKIT

git clone -b ${OKIT\_BRANCH} https://github.com/oracle/oci-designer-toolkit.git ${OKIT\_GITHUB\_DIR}/oci-designer-toolkit

# Install OKIT Required python modules

sudo bash -c "python3 -m pip install --no-cache-dir -r ${OKIT\_GITHUB\_DIR}/oci-designer-toolkit/requirements.txt"

# Create OKIT Required Directories

mkdir -p ${OKIT\_DIR}/{log,instance/git,instance/local,instance/templates/user,workspace,ssl}

ln -sv ${OKIT\_GITHUB\_DIR}/oci-designer-toolkit/config ${OKIT\_DIR}/config

ln -sv ${OKIT\_GITHUB\_DIR}/oci-designer-toolkit/okitweb ${OKIT\_DIR}/okitweb

ln -sv ${OKIT\_GITHUB\_DIR}/oci-designer-toolkit/visualiser ${OKIT\_DIR}/visualiser

ln -sv ${OKIT\_GITHUB\_DIR}/oci-designer-toolkit/okitweb/static/okit/templates/reference\_architecture ${OKIT\_DIR}/instance/templates/reference\_architecture

# Link to root level okit directory

sudo bash -c "ln -sv ${OKIT\_DIR} /okit"

# Open Firewall

sudo firewall-offline-cmd --add-port=80/tcp

sudo firewall-offline-cmd --add-port=443/tcp

sudo systemctl restart firewalld

# Add additional environment information

sudo bash -c "echo 'export OKIT\_DIR=:${OKIT\_DIR}' >> /etc/bashrc"

sudo bash -c "echo 'export PYTHONPATH=:${OKIT\_DIR}/visualiser:${OKIT\_DIR}/okitweb:/okit' >> /etc/bashrc"

sudo bash -c "echo 'export PATH=$PATH:/usr/local/bin' >> /etc/bashrc"

# Generate ssl Self Sign Key

sudo bash -c "openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout ${OKIT\_DIR}/ssl/okit.key -out ${OKIT\_DIR}/ssl/okit.crt -subj '/C=GB/ST=Berkshire/L=Reading/O=Oracle/OU=OKIT/CN=www.oci\_okit.com'"

##################################################################################################################

##### If HTTPS / 443 Is required #####

##### Copy GUnicorn Service File (HTTPS) #####

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sudo bash -c "cp -v ${OKIT\_GITHUB\_DIR}/oci-designer-toolkit/containers/services/gunicorn.https.service /etc/systemd/system/gunicorn.service"

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##### If HTTP / 80 Is required #####

##### Copy GUnicorn Service File (HTTP) #####

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sudo bash -c "cp -v ${OKIT\_GITHUB\_DIR}/oci-designer-toolkit/containers/services/gunicorn.http.service /etc/systemd/system/gunicorn.service"

# Enable Gunicorn Service

sudo systemctl enable gunicorn.service

sudo systemctl start gunicorn.service

sudo systemctl status gunicorn.service

\*\*\*Gunicorn is a Python Web Server Gateway Interface HTTP Server for UNIX\*\*\*

Once Gunicorn is running you can visit the public IP of your Linux VM.