Microsoft Cloud Demo

Open Source Demo Environment

V 1.0

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Contents

1 - Initial Setup of your workstation

The setup process involves:

- Securing an Azure environment that can handle a minimum of 10 cores
- Downloading the GITHUB bits on a Linux machine or Windows Ubuntu BASH Shell
- On your workstation:
    - Downloading and installing the Azure CLI
    - Installing GIT & downloading the bits
    - Customizing the template file – "/source/OSSonAzure/step1-SetTemplateValues" to your values
    - Calling "/source/OSSonAzure/step2-buildSetupScripts.sh"
    - Calling "/source/OSSonAzure/step3-createAzureDemoEnvironment.sh"
    - Waiting for jumpbox CENTOS box to be setup
- On your jumpbox in Azure
    - Copy up your workstations copy of "/source/OSSonAzure/step1-SetTemplateValues"
    - Calling "/source/OSSonAzure/step4-customizeDemos-on-jumpbox.sh"
    - Navigating to your DEMO folder and finalizing setup. Example
        - /source/OSSonAzure/appdev-demos/setupDemo1.sh

Setup of Client software @ Azure environment:

- MS Internal - Configure Internal MS Azure account - https://microsoft.sharepoint.com/teams/AzAccess/Pages/AzureTC.aspx
- Download MobaXterm - http://mobaxterm.mobatek.net/download.html

Azure Setup script

```
sudo mkdir /source

cd /source

# install the Az CLI v2 tools if needed

# curl -L https://aka.ms/InstallAzureCli | bash

# Install git and Clone the GitRepository:

#Install and configure GIT

if [ -f /etc/redhat-release ]; then

  sudo yum -y install git -y
```

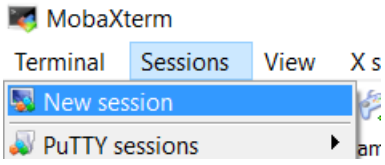
```
fi

if [ -f /etc/lsb-release ]; then

  sudo apt-get install git -y

fi

sudo git clone https://github.com/dansand71/OSSonAzure

# Mark the scripts executable

sudo chmod +x /source/OSSonAzure/step2-buildSetupScripts.sh
```

In step 2 we will create the Azure environment:

- 4 resource groups:.
  - **Ossdemo-docker** → this is used for demonstration of deploying containers across linux servers
  - **Ossdemo-docker-linux-paas** → this will show how to deploy containers in the new public preview of docker on Azure Linux Paas
  - **Ossdemo-kubernetes** → sample of a kubernetes cluster to show how the container will be deployed across servers
  - **Ossdemo-utility** → group that holds the build Server and utility box
- 1 CENTOS jump box
  - This server will allow you to RDP in from windows into the GNOME shell and run the demo's from within Azure

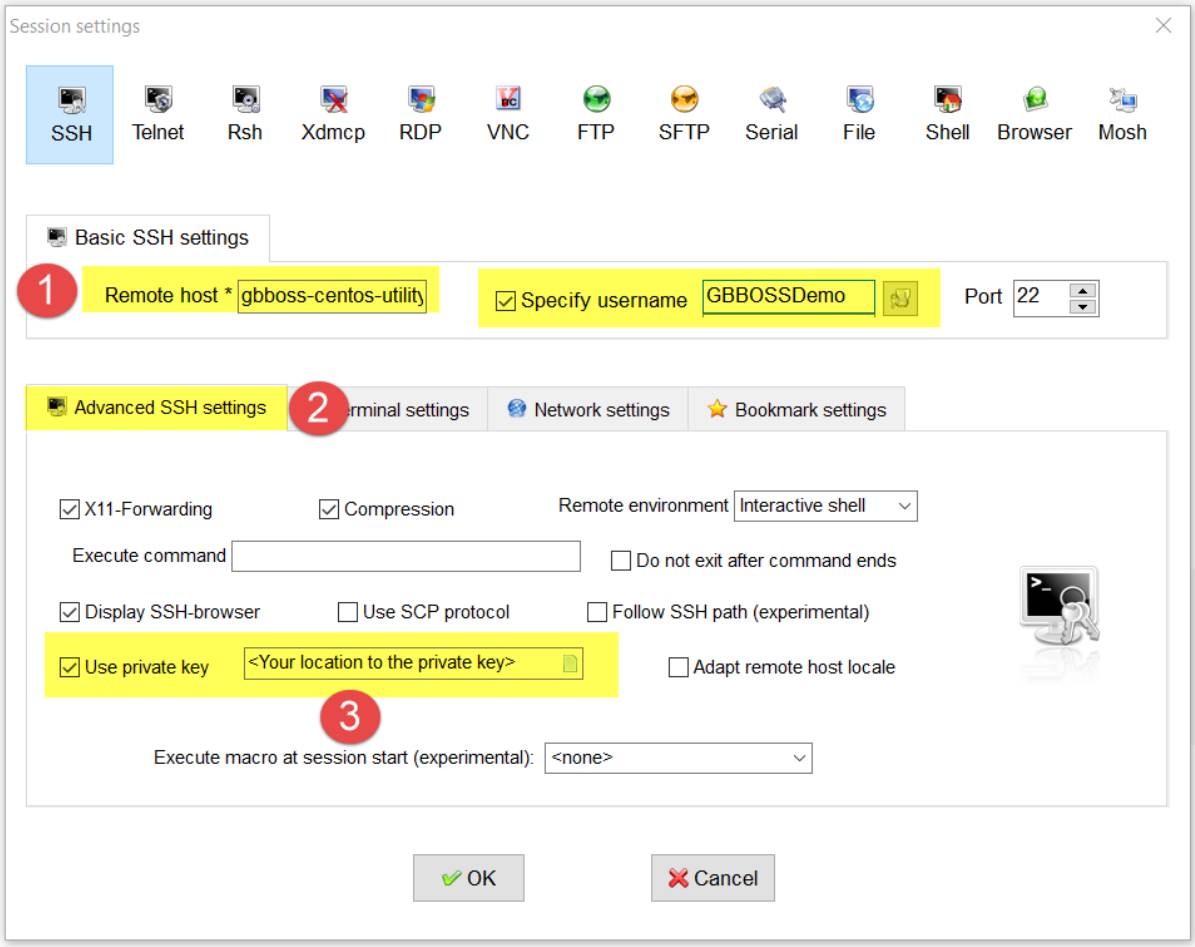
Terminal into the new CENTOS machine – There are several good tools for accessing the remote terminal. This demo uses MobaXTerm – available here – http://mobaxterm.mobatek.net/download.html

Create a new session:

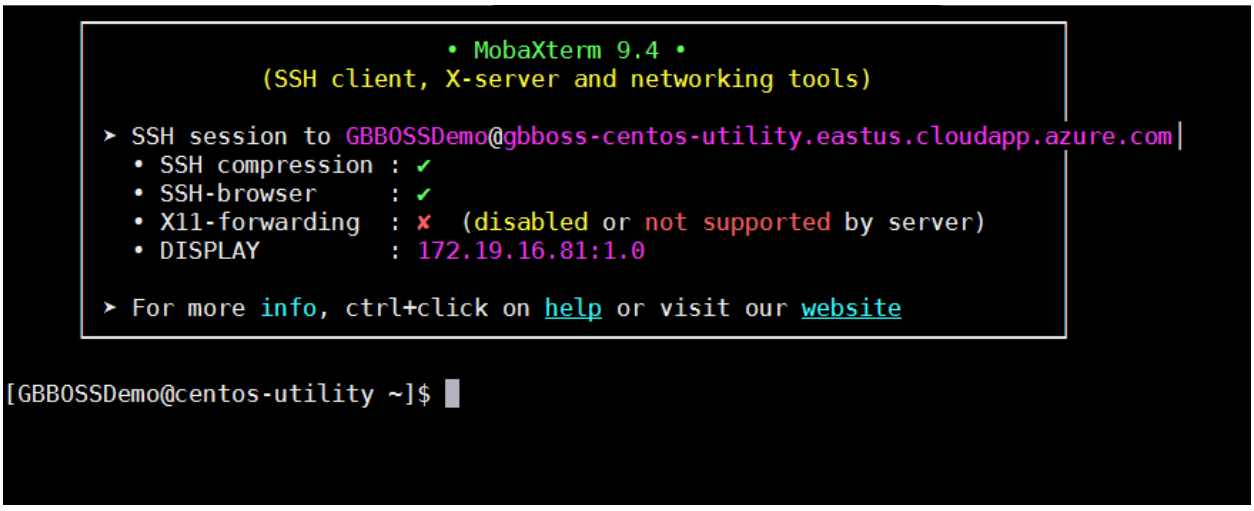


Setup the new session with the following parameters:

1. **Server name:** gbboss-centos-utility.eastus.cloudapp.azure.com **Login Name**: GBBOSSDemo (Or what you may have changed it to in the CENTOS creation script above)
2. **Location of the Private key that corresponds to the public key when the VM was created**



Upon successful login you should see:



2 - Setup of the CENTOS jump box

Upon completion of the centos installation:

- **Set the Administrative Passwords**

```
sudo passwd GBBOSSDemo

sudo passwd root

# Install Azure CLI (Cant get it to default to the right answers)
```

- **Setup GIT and Ansible on your server**

```
#Install and configure GIT

sudo yum -y install git

sudo mkdir /source

cd /source

sudo git clone https://github.com/dansand71/OSSonAzure

sudo chown -R GBBOSSDemo /source/OSSonAzure/.

#Copy the SSH keys

sudo cat /source/OSSonAzure/ssh-keys/id_rsa > ~/.ssh

sudo chmod 600 ~/.ssh/id_rsa

#Install the Azure CLI

cd ~/

curl -L https://aka.ms/InstallAzureCli | bash

#Set Step 4 script as executable

sudo chmod +x /source/OSSonAzure/step4-customizeDemos-on-jumpbox.sh

cd /source
```

- **Copy & verify your source template details to the JUMPBOX**
- **Backup your template details**

```
#Make a backup copy of your configuration files

sudo cp /source/OSSonAzure/step1-SetTemplateValues /source/OSSonAzure/step1-
SetTemplateValues-backup

#Start the install and configuration of the jumpbox

sudo /source/OSSonAzure/step4-customizeDemos-on-jumpbox.sh
```

3 – Summary

Upon completion of these steps:

- **Azure environment configured**
- **CENTOS Server configured**
- **Ready to execute your Demos**