

Microsoft Cloud Demo

Open Source Demo Environment

V 1.0

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Some examples are for illustration only and are fictitious. No real association is intended or inferred.

Contents

1 - Initial Setup of your workstation	1
2 - Setup of the CENTOS jump box	4
3 – Summary.....	6

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

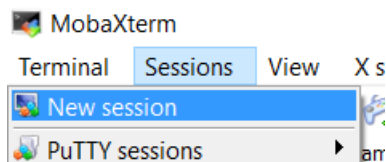
```

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

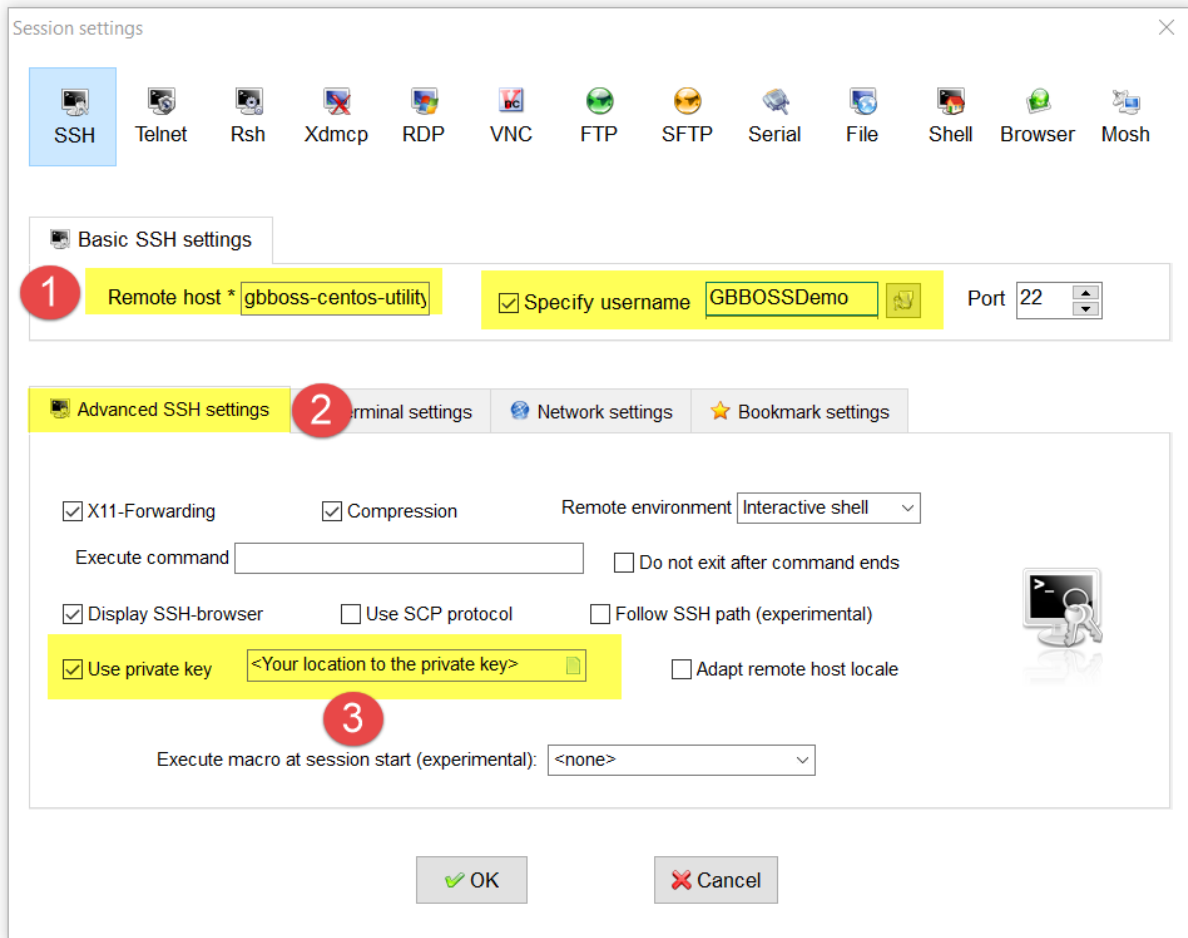
Terminal into the new CENTOS machine – There are several good tools for accessing the remote terminal. This demo uses MobaXTerm – available here – <http://mobaxterm.mobatek.net/download.html>

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:

```

      • MobaXterm 9.4 •
      (SSH client, X-server and networking tools)

> SSH session to GBBOSSDemo@gbboss-centos-utility.eastus.cloudapp.azure.com|
  • SSH compression : ✓
  • SSH-browser      : ✓
  • X11-forwarding   : ✗ (disabled or not supported by server)
  • DISPLAY          : 172.19.16.81:1.0

> For more info, ctrl+click on help or visit our website

[GBBOSSDemo@centos-utility ~]$
```

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**