Microsoft Cloud Demo

Open Source Demo Environment

V 1.0

March 2017

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

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# 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**

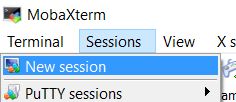
**sudo chmod +x /source/OSSonAzure/step2-buildSetupScripts.sh**

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

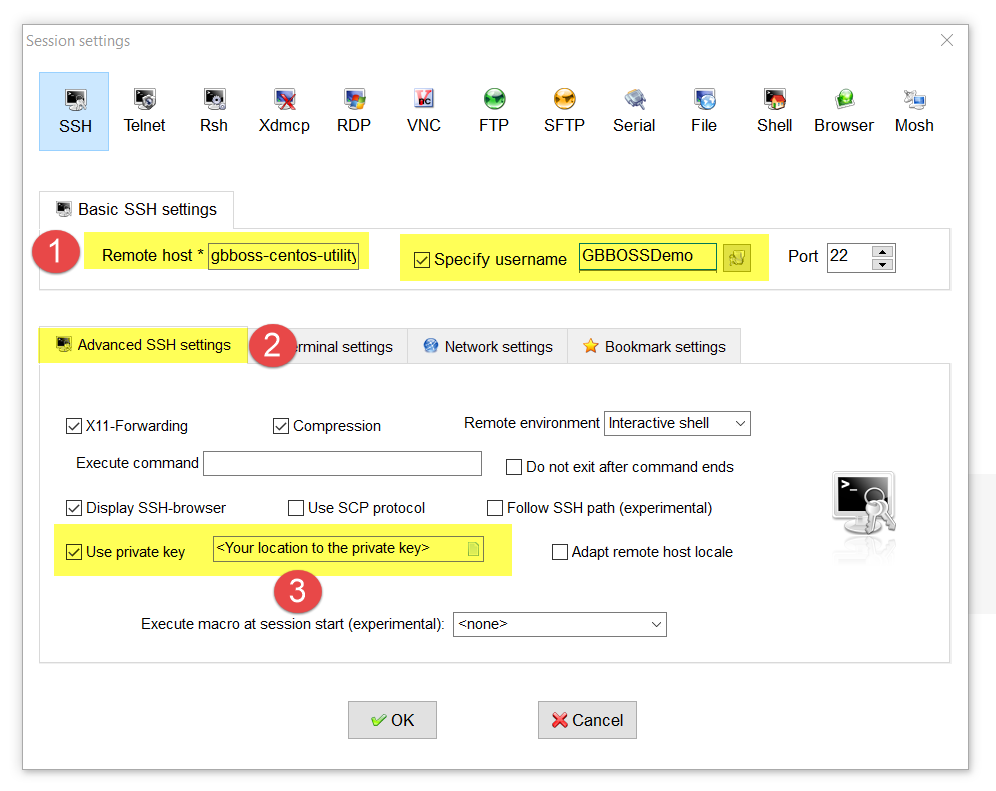
**Terminal into the new CENTOS machine –** There are several good tools for accessing the remote terminal. This demo uses MobaXTerm – available here – <http://mobaxterm.mobatek.net/download.html>

Create a new session:

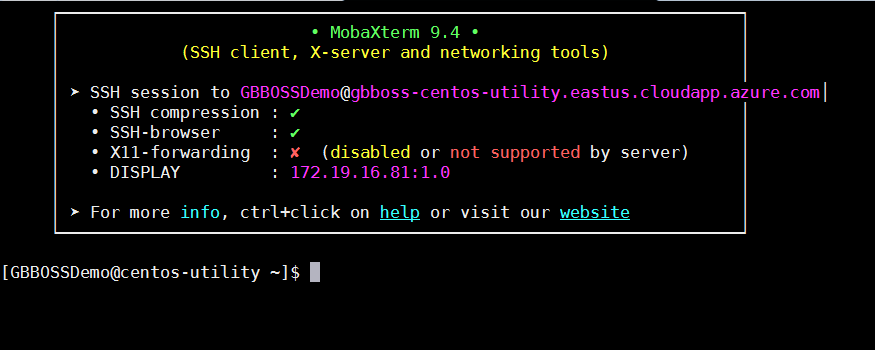


Setup the new session with the following parameters:

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**