How to use remote **Amazon Web Services** DEV cluster

Purpose

The idea is to mimic the remote DEV cluster environment in developers' local laptops.

The project has been started because AWS Dev cluster OpenShift runs on **RedHat** Linux and Sabre Developers use **Windows 7**.

With the built 'local DEV cluster' image available, the developers can run the 'Amazon Web Services DEV' mirror locally.

The other reasons behind the idea were to give developers:

- full freedom to explore the new OpenShift technology

- full control during development.

Tools and providers needed to build the DEV cluster environment

- Virtual Machine provider (VirtualBox 5.2.12)
- Packer
- CygWin
- Vagrant version 2.0.2
- Nugrant plugin
- Windows PowerShell (version 4.0 or higher)
- Some tools (**Maven**, **Git**, **Java** and **CNTLM**) to handle Internet access via Sabre corporate proxy

How to build the DEV cluster

✔ Download and install a suitable version of Packer for your operating system

✔ Upgrade Windows PowerShell to version 4.0 or higher

✔ Get and install the Vagrant installer

✔ Install Nugrant plugin to let users define .vagrantuser file at different locations

How to build the DEV cluster cont.

✓ Check out source files for the box-build project located at Git

✓ Open CygWin environment, change directory to the folder with your project

✓ Open terminal, browse to select the folder containing your project

✓ run the Packer build -var-file=centos-openshift-variables.json -force centos-openshift.json

How to build the DEV cluster cont.

Refer to the Readme.md file for more installation details (e.g. links to installation files, required version numbers of tools / plugins, etc.).

This document is available on Sabre Sharepoint at: Sabre.Sharepoint.com.

How to run the DEV cluster

Use the following commands to:

✔ run the Virtual Machine: vagrant up

✔ give you access to a shell / box: vagrant ssh

✔ stop running Virtual Machine: vagrant halt

Questions?