Build Manifest Design Guide

Goal

Design and code a set of scripts that will assist in the automation of provisioning of server instances to RBI ‘Gold Build’ standards

Assumptions

Puppet will be the platform used to deliver and execute scripts. It will be configured in a master/agent architecture.

‘Scripts’ will be written in native puppet where possible with ‘exec’ resources only used where absolutely necessary.

Module Design

Recommended approach will be to split various components of the Gold Build into common groups so that the module can be split into multiple classes. This aids development and reduces complexity of scripts

i.e. Windows\_Services groups all Windows Service configuration items together.

1st iteration will look like

Build

Build module is top level module that identifies the nodes OS family and includes the relevant classes that are required. This first iteration will only deal with windows

Windows

Windows module holds all the Gold Build standards for Windows 2008 & 2012.

Windows module makeup

Top level class

Windows

Module classes

Windows::Native

Windows::Agents

Windows::Agents

Windows::App

Specific Classes

Windows::Native\_Services

Windows::Agents\_McAfee

etc

File layout

/etc/puppet/modules/Windows/manifests

Init.pp

Agents\_McAfee.pp

Agents\_Snow.pp

App\_BGInfo.pp

Native\_Services

Build will specify the OSFamily module

The OSFamily module will specify the various classes to include e.g. Native, Apps, Agents etc

The OSFamily::Class e.g. Windows::Agents will specify specific agents classes to include

Priorities

Priority is to develop working puppet classes that will “build” a gold standard server. As Hiera has not been defined yet and the majority of a gold build is static then storing environment variables should not be an issue at this stage. Environmental configuration should be left to the provisioning service.

Documentation of each configuration item is key.

If environmental configuration is required then document and refer back to team so that it can be considered and properly defined.