Summary

For the test environment, we need to pass in the configurations of the environment into the Force system. Here we design the format of the environment configuration, and will detailed the format, usage, and workflow below.

Format:

The typical config of a support environment is as below, for items in **<!-- -->** are the introduction of the segment:

<**config**>

<**type**>together</**type**> **<!-- together or separate, together means the SUT and test agent are on the same template -->**

<**domain> <!-- This part will be removed and we’ll get the domain information from the SUT or test agent segment -->**

<**name**>qaes1.com</**name**>

<**administrator**>es1service</**administrator**>

<**password**>emcsiax@QA</**password**>

</**domain**>

<**sutconfig**> **<!-- The configuration of the System Under Test -->**

<**name**>Win2K8R2+SQL2K8R2+Exch2010+Outlook2010+1NA+1Worker+Updated</**name**> **<!-- The name of the template in vCloud for the SUT -->**

<**type**>tobecreated</**type**> **<!--tobecreated or existing, tobecreated means we need to create a vAPP from the template, existing means that the SUT is existing and no need to create a new one -->**

<**domain**> **<!-- The domain information of the SUT -->**

<**name**>qaes1.com</**name**>

<**administrator**>es1service</**administrator**>

<**password**>emcsiax@QA</**password**>

</**domain**>

<**machines**> **<!-- All the machines’ information in the SUT-->**

<**machine**>

<**name**>DC01</**name**>

<**ip**>192.168.2.100</**ip**> **<!-- The internal IP of the machine, a new segment of externalip will be added when the vAPP is created by vCloud below -->**

<**roles**>DomainController</**roles> <!-- The roles of the machine. For SourceOne, we use this to determine how to handle the machine, such as start a specific service, install the S1 components, etc. For SourceOne they are among the list [**DomainController, ExchangeServer, Master, DMWeb, NativeArchive, SQLServer, Worker,WebService,Search,DMServer,DMClient,Mobile,Console **], pay attention to the spell, and it’s case sensitive -->**

<**categories**></**categories**> **<!-- Not used currently for machines in SUT -->**

<**description**>Domain Controller</**description**>

<**config**></**config**> **<!-- The specific configuration for the machine, not used currently, for the future extensible -->**

</**machine**>

<**machine**>

<**name**>Mail01</**name**>

<**ip**>192.168.2.102</**ip**>

<**roles**>ExchangeServer</**roles**>

<**categories**></**categories**>

<**description**>Exchange Server</**description**>

<**config**>

<**version**>Exchange2010</**version**> **<!-- The version of the exchange server, it’s used when we send the message to the exchange server using the web service of exchange, the client of the SDK needs to know the version of the exchange server. -->**

</**config**>

</**machine**>

<**machine**>

<**name**>Master</**name**>

<**ip**>192.168.2.103</**ip**>

<**roles**>Master,DMWeb</**roles**>

<**categories**></**categories**>

<**description**>S1 Master</**description**>

<**config**></**config**>

</**machine**>

<**machine**>

<**name**>NA01</**name**>

<**ip**>192.168.2.104</**ip**>

<**roles**>NativeArchive</**roles**>

<**categories**></**categories**>

<**description**>S1 Native Archive Server</**description**>

<**config**></**config**>

</**machine**>

<**machine**>

<**name**>SQL01</**name**>

<**ip**>192.168.2.101</**ip**>

<**roles**>SQLServer</**roles**>

<**categories**></**categories**>

<**description**>SQL server for S1 DB</**description**>

<**config**></**config**>

</**machine**>

<**machine**>

<**name**>WORK01</**name**>

<**ip**>192.168.2.105</**ip**>

<**roles**>Worker,WebService,Search,DMServer,DMClient,Mobile,Console</**roles**>

<**categories**></**categories**>

<**description**>SQL server for S1 DB</**description**>

<**config**></**config**>

</**machine**>

</**machines**>

</**sutconfig**>

**<!-- End of SUT config -->**

<**testagentconfig**> **<!-- The configuration of the test agent, where the automation testing will execute on. If the type of the whole config is together, the testagentconfig part is used to specify which machine is the test agent. -->**

<**name**>Win2K8R2+SQL2K8R2+Exch2010+Outlook2010+1NA+1Worker+Updated</**name**>

<**type**>tobecreated</**type**>

<**domain**>

<**name**>qaes1.com</**name**>

<**administrator**>es1service</**administrator**>

<**password**>emcsiax@QA</**password**>

</**domain**>

<**categories**></**categories**> **<!-- Any categories about the test agent, not used by Galaxy yet. -->**

<**machines**>

<**machine**>

<**name**>WORK01</**name**>

<**ip**>192.168.2.105</**ip**>

<**roles**>Worker,WebService,Search,DMServer,DMClient,Mobile,Console</**roles**>

<**categories**></**categories**>

<**description**>SQL server for S1 DB</**description**>

<**config**></**config**>

</**machine**>

</**machines**>

</**testagentconfig**>

<**s1configs**> **<!-- The configuration of S1, this will be used when we install S1 -->**

<**defaultaccount**>ES1Service</**defaultaccount**>

<**archivedb**>ES1Archive</**archivedb**>

<**activitydb**>ES1Activity</**activitydb**>

<**searchdb**>ES1Search</**searchdb**>

**<!--Below is the optional configurations, you can add segment about the environment and all these settings will be copied to the folder of SaberAgent without any changing. -->**

</**s1configs**>

**<!-- You can add any segments from here for any config or setting about the environment that’ll be used by your automation testing. -->**

</**config**>

Usage:

Firstly, the XML of the environment will be saved into the DB as the config segment of the SupportEnvironment table.

When user select this environment to run their test case, Galaxy will check the type of the environment first, the type of the environment (Together or seperate) defined whether the test agent are within the SUT template. For SUT and test agent, the type (tobecreated or existing) defines whether the SUT or test agent needs to be created from the template.

SUT will be created firstly if needed, then the test agent will be created. Then the Saber Agent will be installed on the machines within the vAPPs(both the SUT and TestAgent).

After the Test Agent is installed, a XML file with the external IPs of all the machines will be copied to each machine.

Then our automation scripts can read the xml file to get the context of environment(The SUT’s information with the external IPs)

Note that:

The virtual machine’s name should be unique between SUT and Test Agents for one job