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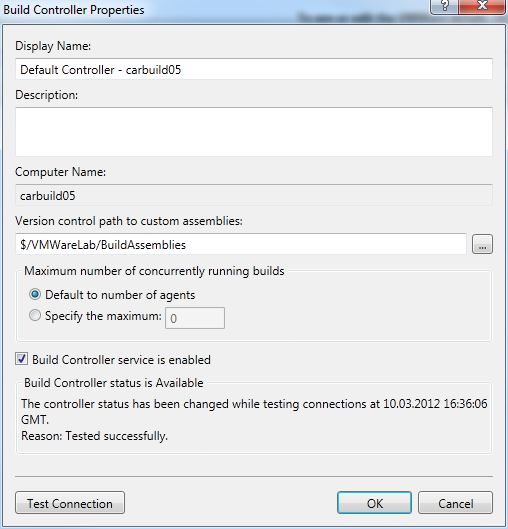
# VMWare Lab Default Template documentation

## Setup and configuring the workflow

1. To run a VMWare lab build check-in the VMWareLabDefaultTemplate.xaml into the source control (example: $/<projectName>/BuildProcessTemplates).
2. Check in to source control the following assemblies:
   * VMWareActivities.dll
   * VMWareLabWorkflowsDataContracts.dll
   * VimService25.dll
   * VimService25.XmlSerializers.dll
   * VimService40.dll
   * VimService40.XmlSerializers.dll
   * VimService41.dll
   * VimService41.XmlSerializers.dll
   * VimService50.dll
   * VimService50.XmlSerializers.dll
   * VMware.Vim.dll

The VIM assemblies are required to connect to the VMWare server on the clients editing the build definition without installing VMWare SDK.

1. Specify the custom assembly path for the build controller by right clicking on the Builds node in the Team Explorer window and selecting Manage Build Controllers.
2. In the Build Controller Properties window set the Version Control path that contains the assemblies that are used by the VMWare Lab Build Process Template.



1. On the Build menu, click New Build Definition.
2. Select VMWareLabDefaultTemplate.xaml from the drop-down list for Build process file.

### Installing the VMware vSphere PowerCLI

To run builds with the WMWareLab template the VMware vSphere PowerCLI package must be installed on the build agent.

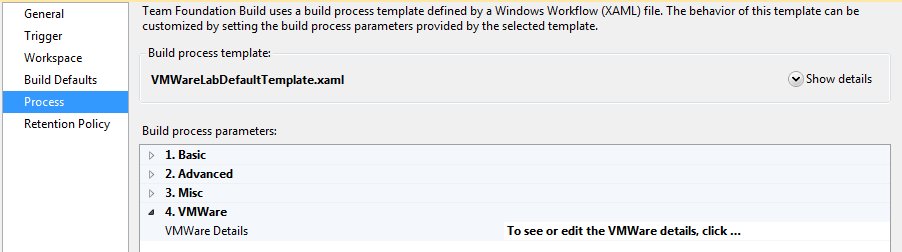
The VMware vSphere PowerCLI can be downloaded here:

http://communities.vmware.com/community/vmtn/server/vsphere/automationtools/powercli

## VMWare Lab Workflow Parameters wizard

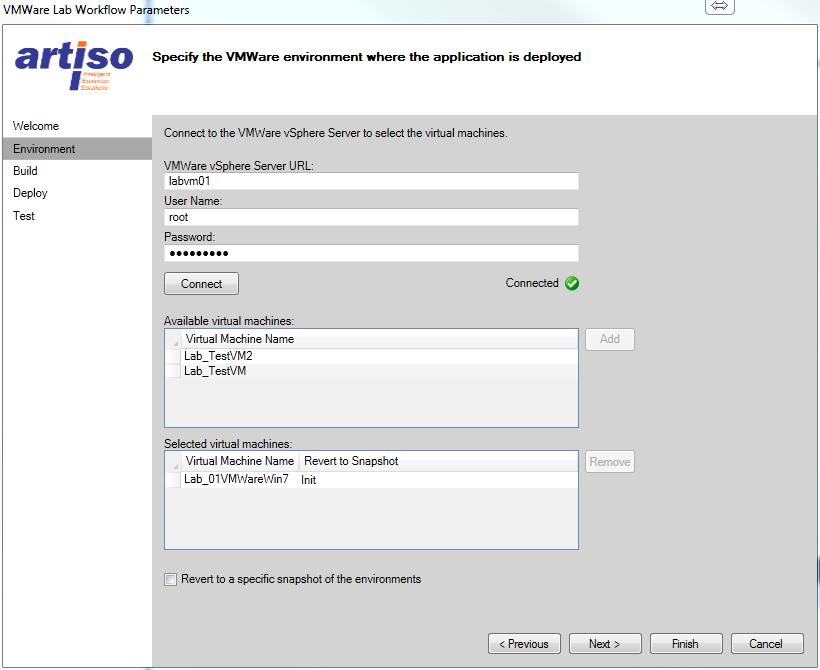
The VMWare lab workflow parameters wizard provides an editor to configure the VMWareLabDefaultTemplate. Here you can select the VMWare virtual machines which will be reverted to a snapshot, the build which will be used, the deployment of the build output and the test which will be run.

To access the wizard select process in the build definition, expand the VMWare section and select the VMWare details row. Click on the button with the tree dots ("…").



The VMWare lab parameters wizard appears.

### Environment details

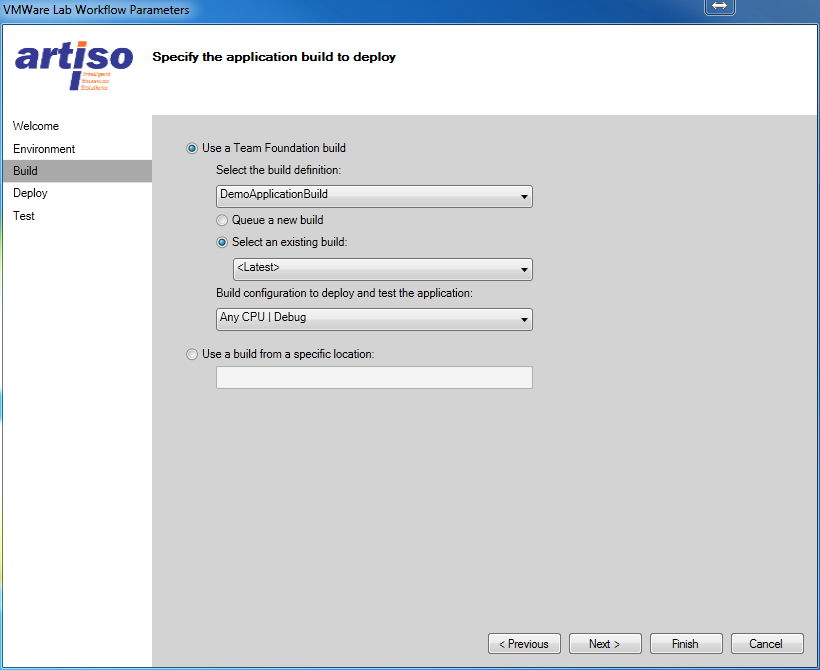


The Environment details window lets you select the virtual machines which will be reverted to a specific snapshot during the build before the deployment and testing.

Selecting the virtual machines:

1. Connect to the vSphere server by providing the vSpher server URL, a user name and password.
2. Select the virtual machines which you want to reset to a snapshot from the available virtual machines grid.
3. Specify a snapshot in the selected virtual machines grid by clicking on the revert to snapshot column and selecting the snapshot name form the drop down list.
4. Check the revert to a specific snapshot of the environment check box.

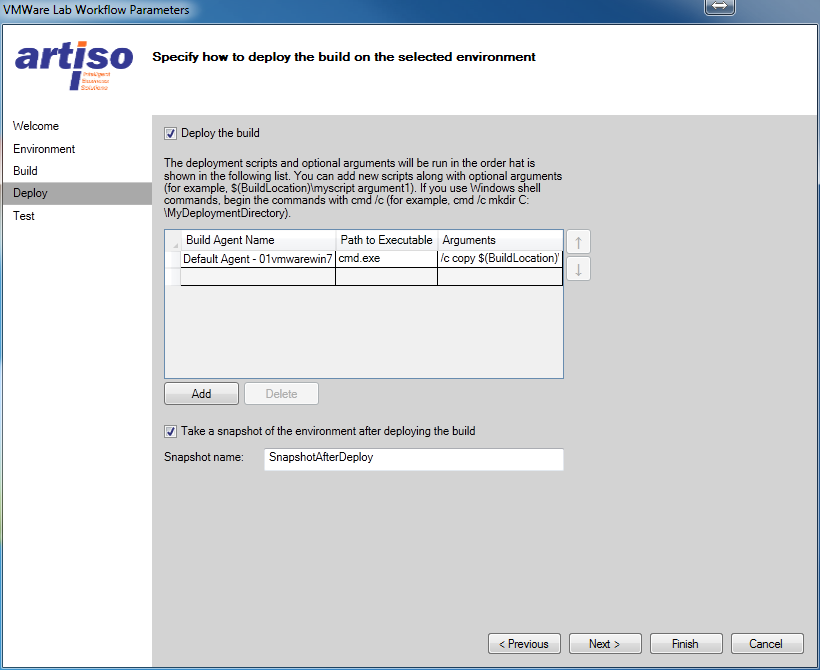
### Build details



In the build window you can queue a new build or select an existing one.

* Select the build definition: Name of the build definition to be queued.
* Queue a new build: Indicates whether a new build should be queued.
* Select an existing build: Selects an existing build or the latest build run.
* Build configuration to deploy and test the application: Selects the configuration (ex: Debug, Retail) and platform (ex: x86, x64) of the build definition.
* Use a build from a specific location: Provide a specific location for the build.

### Deployment details



The deployment window contains scripts that perform the deployment. Each script is of the format BuildAgentName # PathToExecutable # Arguments

Example: AgentName # cmd.exe # /c copy $(BuildLocation)\install.exe C:\Temp

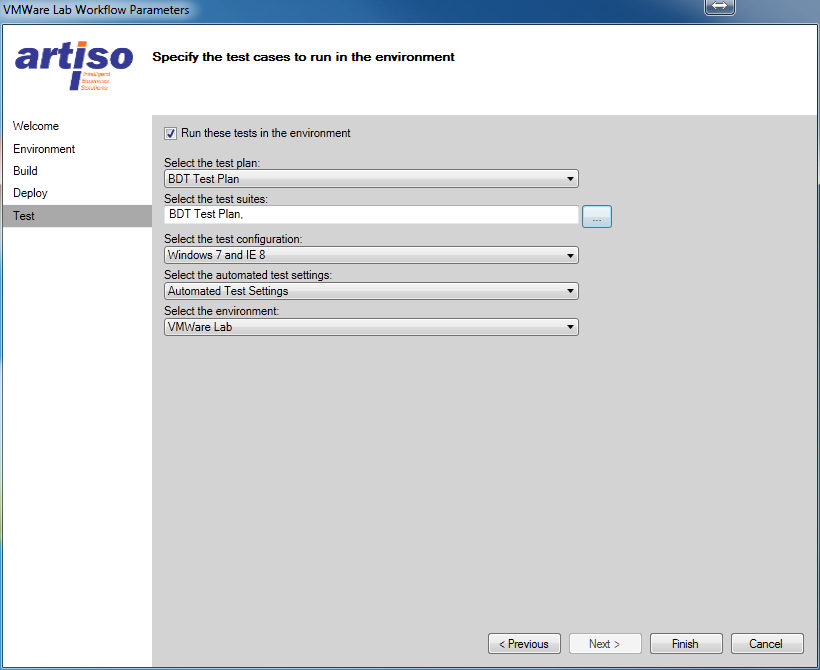
* Build Agent Name – Name of the build agent on the machine where the script should be executed. You can check the build agent name from ‘Builds -> Manage Build Controllers’ in Visual Studio.
* Path to Executable – File path to the executable that needs to be executed. This can contain the macro $(BuildLocation) which will be substituted by the value of BuildLocation workflow argument.
* Arguments – Arguments to be passed to the executable. $(BuildLocation) macro is allowed.

The "Deploy the build" checkbox indicates whether deployment should be performed.

The "Take snapshot of the environment after deploying the build" checkbox indicates whether a snapshot of the selected environments should be performed after a successful deployment. The name of the snapshot will be the provided snapshot name plus the build number of the current build.

Example: MySnapshotName\_BuildNumber

### Test details



In the test section you can specify which test will be run.

Following parameters can be selected:

* Run these tests in the environment: Indicates whether tests are to be run.
* The test plan.
* The test suites for the test.
* The test configuration.
* The automated test settings.
* The test environment.