

FUJITSU Cloud Service S5

Sysprep for Windows Server 2008 R2

This document describes the process of using the “Sysprep” tool. This tool is executed when customers use the User Defined Template Creation function when saving a VSYS as a template and for making a copy of templates.

Introduction

Please refer to the Microsoft TechNet websites ([http://technet.microsoft.com/en-us/library/cc766049\(v=ws.10\)](http://technet.microsoft.com/en-us/library/cc766049(v=ws.10))) for the details of the Sysprep tool.

When customers execute the System Preparation (Sysprep) tool, some system settings specified by users are changed to the default settings. Please take this into consideration when executing the Sysprep tool.

In order to create the Sysprep’s answer file for Windows Vista or higher, users need to use the special tool called “Windows System Image Manager”. This tool will not only read the OS catalog file but also create the answer file.

Therefore, before creating an answer file for Windows 2008R2, users need to not only install the “Windows System Image Manager” tool but also prepare the catalog file of Windows 2008R2.

Please refer to [Sysprep Environment](#) and [Prepare the environment for creating a Sysprep answer file](#) about how to install the “Windows System Image Manger” tool.

The catalog file of Windows 2008 is available on the Windows 2008 Server R2 installation media DVD. If you do not have this, this can be downloaded from <http://technet.microsoft.com/en-us/evalcenter/dd459137.aspx>.

Fujitsu will not be held responsible for any issues caused by the Sysprep execution. You take full responsibility for your own Sysprep execution.

This document is for Windows Server 2008R2 only. Please do not use this document on any other OS.

Backup the VM

When implementing Sysprep, please backup the VM in advance. Refer to [Service Portal Users Guide] about how to backup the VM.

Login to Virtual Machine

The following steps assume you have RDP connectivity to the Windows 2008 Virtual Machine as detailed in [Service Portal User Guide]

Sysprep Environment

In Windows Server 2008R2, the Sysprep execution batch file, which uses the Sysprep answer file, is prepared under the C drive.

Please note that after users create the answer files for Sysprep ([Prepare the environment for creating a Sysprep answer file](#) and [Framework of the Windows System Image Manager](#)), they need to replace the Untitled.xml file saved at the following location.

Location where Sysprep execution batch file is saved.

C:\Windows\System32\sysprep\vsysprep.bat

Location where Sysprep answer file is saved.

C:\Windows\System32\sysprep\Untitled.xml

Prepare the environment for creating a Sysprep answer file

* The steps described in this section are not necessary for the VM on the FUJITSU Cloud Service S5 system or the WWW server. The type of environment is not important as long as it can carry out the following procedures.

- 1) Obtain the AIK (Automated Installation Kit) for Windows Vista SP1 and Windows Server 2008.
From the following URL, download the Windows AIK (6001.18000.080118-1840-kb3aikl_en.iso).

<http://www.microsoft.com/downloads/en/details.aspx?displaylang=en&FamilyID=94bb6e34-d890-4932-81a5-5b50c657de08>

- 2) Burn the downloaded file on DVD or mount it on the Virtual drive.

If users mount the downloaded file on the Virtual drive, please use the freeware which emulates the image files as Virtual CD/DVD (such as "DAEMON Tools Lite"), and mount the image file to the virtual DVD drive.

- 3) Install the Windows AIK.

Double click the [Waikamd64] in the image file, then select [Windows Automated Installation Kit] - [Windows AIK Setup].

When [Welcome to the Windows Automated Installation Kit Setup Wizard] is displayed, click [Next] until the installation of the Windows AIK is complete.

Framework of the Windows System Image Manager

- 1) From Windows 2008 R2 media, copy the file <DVD Drive Letter>:\sources\install.wim to the folder on the VM that has the Windows Automated Installation Kit. It is recommended to rename this file windows2008R2_install.wim

- 2) Start the Windows System Image Manager.

- Select [Start Menu] - [All Programs] - [Microsoft Windows AIK] - [Windows System Image Manager].
- After the tool is opened, select [File] - [Select Windows Image]. Browse and select the Windows image file copied at step 1).

How to Create, Verify and Save the Sysprep Answer file

- 1) Create New Answer file

Select [File] - [New Answer File].

- 2) Deploy and specify the answer file

* Table 1 shows the required information to create the Sysprep answer file. If users do not specify these, Fujitsu do not guarantee that the System Image will boot after Sysprep.

Open the [Components] tree displayed in the [Windows Image] frame at lower left. Then by referring to the table below, select the "Component Name" and right-click the "Path Name".

The property of the selected "Component Name" is displayed on the right edge, please click the "Setting Item" on the Table 1 and specify the values.

For other setting items not stated in Table 1, please specify them where appropriate.

Table 1 : Required Items to create the Sysprep answer file.

Component Name	Path Name	Setting Item	Value
amd64_Microsoft-Windows-Security-Licensing-SLC	Path 3: Add the setting to "generalize".	SkipRearm	1
amd64_Microsoft-Windows-International-Core	Path 7: Add the setting to "oobeSystem".	InputLocale	en-US
		SystemLocale	
		UILanguage	
		UseLocale	
amd64_Microsoft-Windows-Shell-Setup	Path 7: Add the setting to "oobeSystem".	HideEULAPage	True
		UserAccounts-Administrator	Any (*1)
		Password	

	Path 4: Add the setting to "specialize".	ComputerName	* (*2)
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*1 : More than 6 letters (Use at least 1 number and 1 capital/lowercase alpha character)

*2 : When specifying *, this value is specified automatically.

If users want to specify the "ComputerName", please specify it with up to 15 letters.

3) Verify and Save the answer file

After specifying the above settings, select [Tool] - [Validate Answer File]. The validation result is displayed as a Message shown on the lower right. When "There are no warning and no errors." is displayed, select [File] - [Save Answer File] to save the Untitled.xml.

4) Confirm the Untitled.xml file

Open the saved answer file, and confirm that all setting items on Table 1 are specified properly.

Example

```
<?xml version="1.0" encoding="utf-8"?>
<unattend xmlns="urn:schemas-microsoft-com:unattend">
<settings pass="generalize">
<component name="Microsoft-Windows-Security-Licensing-SLC" processorArchitecture="amd64"
publicKeyToken="31bf3856ad364e35"
language="neutral" versionScope="nonSxS" xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<SkipRearm>1</SkipRearm>
</component>
</settings>
<settings pass="oobeSystem">
<component name="Microsoft-Windows-International-Core" processorArchitecture="amd64" publicKeyToken="31bf3856ad364e35"
language="neutral" versionScope="nonSxS" xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<InputLocale>en-US</InputLocale>
<SystemLocale>en-US</SystemLocale>
<UILanguage>en-US</UILanguage>
<UserLocale>en-US</UserLocale>
</component>
<component name="Microsoft-Windows-Shell-Setup" processorArchitecture="amd64"
publicKeyToken="31bf3856ad364e35"
language="neutral" versionScope="nonSxS" xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<OOBE>
<HideEULAPage>true</HideEULAPage>
</OOBE>
</component>
</settings>
<settings pass="specialize">
<component name="Microsoft-Windows-Shell-Setup" processorArchitecture="amd64"
publicKeyToken="31bf3856ad364e35"
language="neutral" versionScope="nonSxS" xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<ComputerName>*</ComputerName>
</component>
```

5) Please replace C:\Windows\System32\sysprep\Untitled.xml with the created answer file.

Execute the Sysprep

* The operations detailed in [How to Create, Verify and Save the Sysprep Answer file](#) should be carried out on the VM created by FUJITSU Cloud Service S5.

Execute the following Sysprep execution batch file.

```
C:\Windows\System32\sysprep\sysprep.bat
```

Windows will shut down automatically to complete the Sysprep process.

* After the shutdown, if a user boots this VM, the Sysprep operation is canceled. If this occurs, please execute the Sysprep again.

Reference

How Sysprep Works

[http://technet.microsoft.com/en-us/library/cc766514\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc766514(WS.10).aspx)

ComputerName

[http://technet.microsoft.com/en-us/library/cc749460\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc749460(WS.10).aspx)

Contact

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