

Swarm Logic

Server 2003 VMware Template Build Standards

Prepared By



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INFORMATION SECURITY EXPERTS

Security Classification - Public

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Table of Contents

1.0	DOCUMENT ADMINISTRATION	4
2.0	INTRODUCTION.....	5
2.1	WINDOWS 2003 SERVER INSTALLATION STANDARDS.....	5
2.2	STATEMENT OF WARRANTY.....	5
2.3	FEEDBACK	6
3.0	OPERATING SYSTEM INSTALLATION.....	7
3.1	CREATE THE VIRTUAL MACHINE	7
3.2	BASE OPERATING SYSTEM INSTALLATION	7
3.3	INSTALL VMWARE TOOLS.....	7
3.4	MODIFY THE PAGEFILE SETTINGS	8
3.5	ENABLE REMOTE DESKTOP	8
3.6	REGIONAL SETTINGS	8
3.7	PATCH SERVER.....	8
3.8	CONFIGURE AS TEMPLATE.....	8
3.9	CONFIGURE THE CUSTOMISATION SPECIFICATION	9

1.0 DOCUMENT ADMINISTRATION

Document History

Version	Name	Changes	Date
1.0	Kurt Heinrich	Original	20/09/10

Distribution List

Version	Name	Issued To	Date

2.0 INTRODUCTION

2.1 WINDOWS 2003 SERVER INSTALLATION STANDARDS

This document is provided as a courtesy to the community. It is fairly succinct and assumes you are familiar with Vmware, Windows and template style builds.

It provides details of how to create a reasonably secure Vmware template suitable for VI4.

It is considered suitable for hosting services classified "Commercial in Confidence" or similar

It is designed to be used as a Vmware template and therefore provides minimal functionality, it is expected that additional services will be installed and configured in a secure manner.

It is assumed that the technical resource using this build guide to (re)construct the server is familiar with the Windows installation procedures, is familiar with most common Windows administration tasks and has a good working knowledge of TCP/IP and network routing. As such detailed technical particulars regarding the reasoning for each step of the build procedure have not been included.

Hardware: Vmware Virtual Machine
Service Tag:N/A
CPU: 1
RAM: 1 GB Ram
Disk: 20 GB (C: Drive)
Network: 1 x Gigabit Ethernet
O/S: Windows Server R2 2003 standard edition

Software Requirements

Server 2003 32 Bit R2 Standard Edition

This template is aimed to provide a sample basic build of Windows 2003 suitable for general purposes such as web serving.

There is not a lot of security enhancements in this process as we generally control these via group policy

2.2 STATEMENT OF WARRANTY

THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT

2.3 *FEEDBACK*

We welcome your feedback at info@swarm-logic.com

3.0 OPERATING SYSTEM INSTALLATION

3.1 CREATE THE VIRTUAL MACHINE

- Open virtual centre
- Right click the Vmware host and select create new Virtual Machine
- Select typical
- Set the name as appropriate (Server2003_x86_Template or similar)
- Set the datastore as appropriate
- Set the operating system to be Windows Server 2003 32 bit
- Set the hard disk size to 10GB
- Select thin provisioning
- Click edit virtual machine settings
- Set the memory to 2GB
- Set the number of processors to 1
- Click finish
- Either Connect the DVD to the ISO via a client device or datastore ISO image.
- Power on the virtual machine and open the console
- Depending on timing you may need to reboot the machine to pick up the DVD if it's attached as a client device.

3.2 BASE OPERATING SYSTEM INSTALLATION

- At the welcome screen select enter
- Press F8 to agree to license agreement
- Select enter to install in the 20GB partition
- Select format using NTFS
- Set the regional settings and location as appropriate
- Set the organisation as appropriate
- Set the user name to as appropriate
- Set the product ID as appropriate
- Set the computer name to be the same as the virtual machine name
- Set the license type to per user
- Enter the local administrator password as appropriate
- Set the timezone as appropriate
- Select custom settings for networking
- Select TCP/IP
- Set the IP address as appropriate
- Set the default gateway as appropriate
- Set DNS Server as appropriate
- Leave the computer in a workgroup

3.3 INSTALL VMWARE TOOLS

- Once the server has rebooted right click on the virtual machine and select install VMware tools
- Acknowledge the warning
- Open the server console
- Click next, click next and install.
- Follow the instructions for hardware acceleration
- Reboot when complete

3.4 *MODIFY THE PAGEFILE SETTINGS*

- Open Start\All Programmes\Administrative Tools\Computer Management
- Right click on computer management
- Select properties
- Click on the advanced tab
- Select Performance\Settings
- Select virtual memory\Change
- Make the initial pagefile size 1536 MB
- Make the maximum pagefile size 1536 MB
- Click Set
- Click OK

3.5 *ENABLE REMOTE DESKTOP*

- Login as administrator
- Select Start\Control Panel\System
- Select the remote tab
- Click on remote desktop
- Click OK to acknowledge the warning
- Click OK to continue

3.6 *REGIONAL SETTINGS*

- Modify regional settings so that the default locale and location are appropriate, remove all US regional settings

3.7 *PATCH SERVER*

- Open windows update and patch server as appropriate

3.8 *CONFIGURE AS TEMPLATE*

- Shut the server down and set as a template

3.9 CONFIGURE THE CUSTOMISATION SPECIFICATION

- Open the custom specifications manager in virtual centre
- Select new
- Set the type to be windows
- Set the name as appropriate (eg Windows_2003_x86_V1.0)
- Set the name and organisation as appropriate
- Set the computer name to be same as the virtual machine name
- Set the product key as appropriate
- Tick the include server license information
- Set the license mode to be per seat
- Set the local administrator password as appropriate (must be the same as the template password)
- If required allow the system to logon automatically as administrator
- Set the timezone as appropriate
- Leave the runonce section blank
- Set the network settings to use custom settings
- Select prompt the user for address when the specification is used
- Enter subnet mask as appropriate
- Set the gateway as appropriate
- Set the DNS server as appropriate
- Leave the computer in a workgroup
- Tick generate a new security ID
- Click finish