

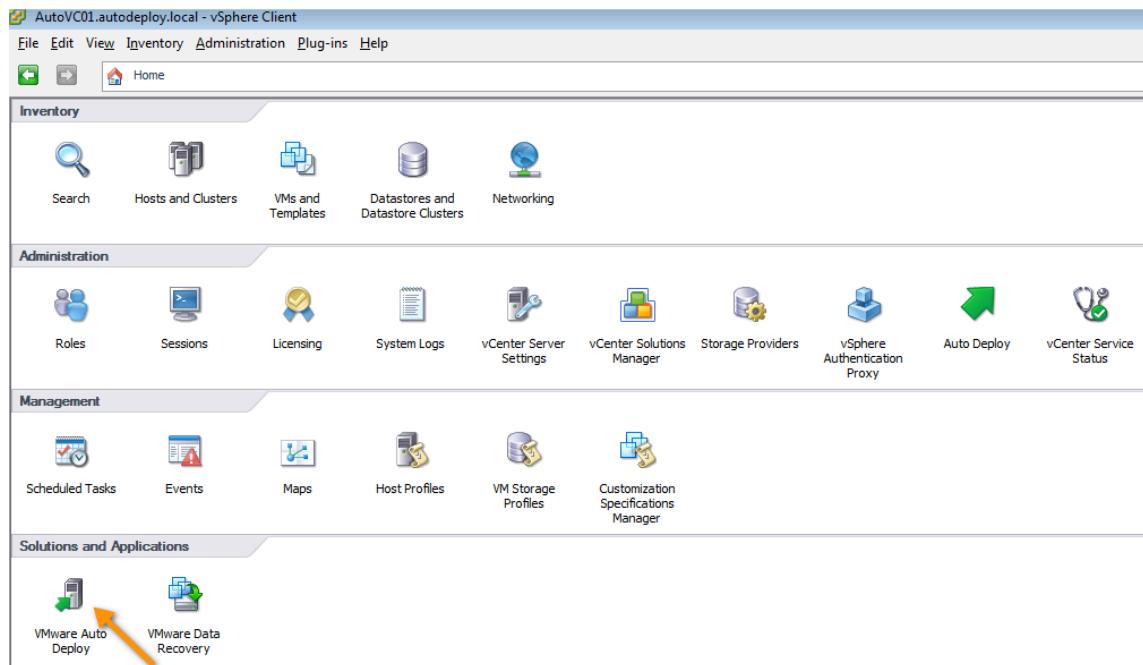


VMware Auto Deploy Gui 5.0

Practical guide

Introduction

The scope of this document is to demonstrate how to configure and use the Auto Deploy GUI to manage stateless ESXi environments.



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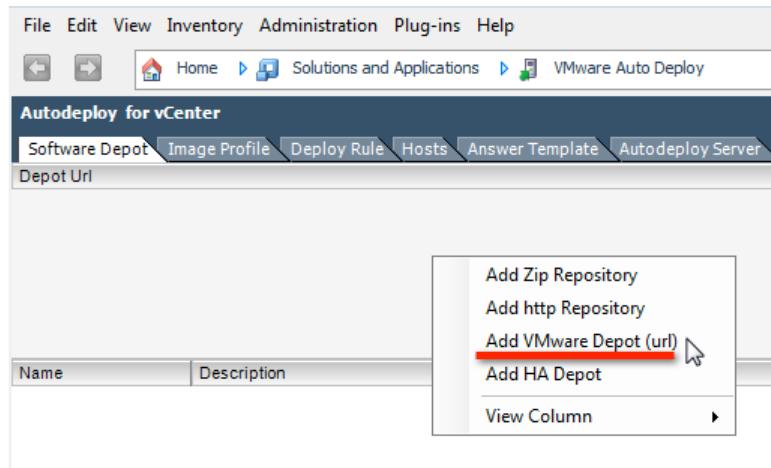
Palo Alto, CA 94304

www.vmware.com

Depot

The first step in configuring Auto Deploy is to define a Depot.

Add VMware public Depot



First step is to add the official VMware repository
<https://hostupdate.vmware.com/software/VUM/PRODUCTION/main/vmw-depot-index.xml>

This is the simplest way to get all VMware ESXi build images.

Figure 1

Add HA Depot

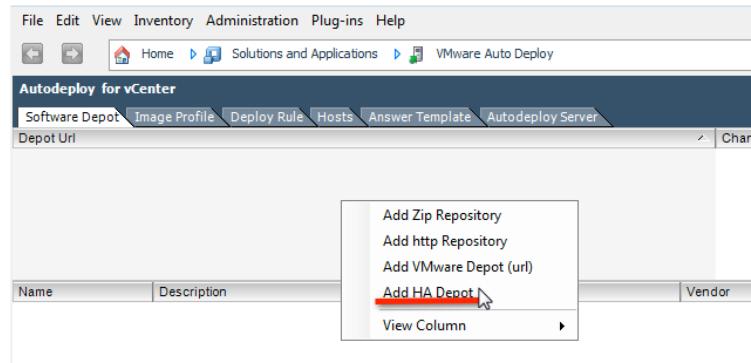


Figure 2

All vCenter servers have a HA Depot, this must be configured if you want to deploy the HA modules for ESXi

URL is :

<http://<vchostname>/vSphere-HA-depot/index.xml>

The screenshot shows the 'Autodeploy for vCenter' interface with the 'Depot Url' field set to 'http://autovc02/vSphere-HA-depot/index.xml'. Below this, there is a table listing various drivers:

Name	Description	Version	Vendor	R
ata-pata-atixp	ATI SATA Controllers Driver	0.4.6-3vmw.500.0.0.469512	VMware	8
esx-base	For build informatin, see KB http://kb.vmware.com/kb/doccenter/search.do?language=en_US&query=kb%207.515841	5.0.0-0.7.515841	VMware	1
net-e1000	For build informatin, see KB http://kb.vmware.com/kb/doccenter/search.do?language=en_US&query=kb%208.0.3.1-2vmw.500.0.7.515841	8.0.3.1-2vmw.500.0.7.515841	VMware	1
ehci-ehci-hcd	USB 2.0 ehci host driver	1.0-3vmw.500.0.0.469512	VMware	8
net-xgbe	Intel Oplus 10GigE Network Driver	2.0.84.8.2-10vmw.500.0.0.469512	VMware	8
scsi-megaraid2	LSI Logic MegaRAID Driver	2.00.4-9vmw.500.0.0.469512	VMware	8
uhci-usb-uhci	USB 1.0 uhci host driver	1.0-3vmw.500.0.0.469512	VMware	8
net-r8168	Realtek 8168	8.013.00-3vmw.500.0.0.469512	VMware	8
ohci-usb-ohci	USB 1.0 ohci host driver	1.0-3vmw.500.0.0.469512	VMware	8
scsi-qla4xxx	Qlogic iSCSI HBA Driver	5.01.03.2-3vmw.500.0.0.469512	VMware	8
ata-pata-sil680	SIL680 IDE/PATA Controller Driver	0.4.8-3vmw.500.0.0.469512	VMware	8
scsi-megaraid-sas	LSI Logic MegaRAID SAS Driver	4.32-1vmw.500.0.0.469512	VMware	8
scsi-mpt2sas	LSI Fusion MPT2 6G SAS driver	06.00.00.00-5vmw.500.0.0.469512	VMware	8

After this complete the previous step, you will see a similar configuration as shown in the screenshot.

Figure 3

Add vCloud Agent or any other local depot

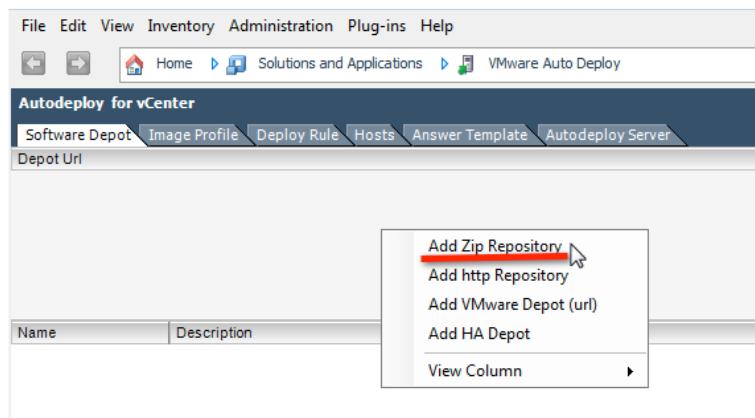


Figure 4

If you need to add a specific custom component like VMware vCloud Agent or Cisco Nexus for example, there is the option *Add Zip Repository*.

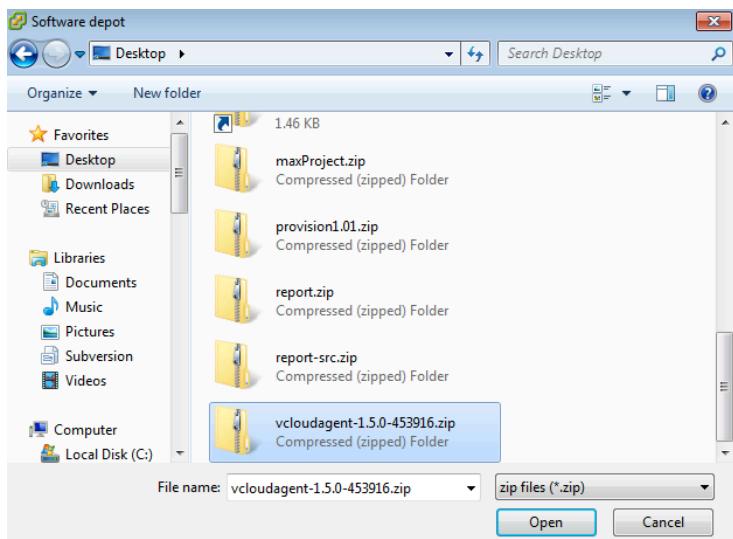


Figure 5

Choose the zip file containing your component.

For example **vcloudagent-1.5.0-453916.zip** vCloud 1.5 ESXi agent

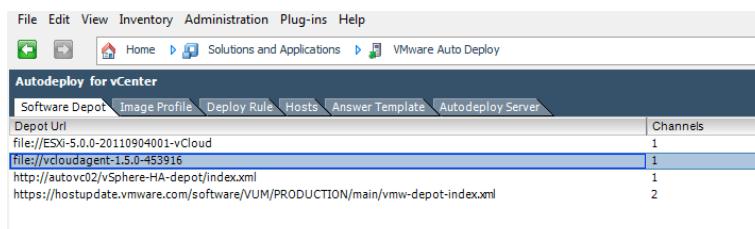


Figure 6

You will see a similar configuration as shown in this screenshot

Image Profile

Name	Vendor	Description	Last Modified
ESXi-5.0.0-20111104001-standard	VMware, Inc.	For more information, see http://kb.vmware.c...	10/13/2011 3:02:00 PM
ESXi-5.0.0-20111104001-no-tools	VMware, Inc.	For more information, see http://kb.vmware.c...	10/13/2011 3:02:00 PM
ESXi-5.0.0-20110904001-standard	VMware, Inc.	For more information, see http://kb.vmware.c...	8/26/2011 1:41:00 PM
ESXi-5.0.0-469512-no-tools	VMware, Inc.	The general availability release of VMWare ES...	8/19/2011 1:31:05 AM
ESXi-5.0.0-20111204001-no-tools	VMware, Inc.	For more information, see http://kb.vmware.c...	10/31/2011 11:24:00 AM
ESXi-5.0.0-20110904001-notools	VMware, Inc.	For more information, see http://kb.vmware.c...	8/26/2011 1:41:00 PM
ESXi-5.0.0-20111204001-standard	VMware, Inc.	For more information, see http://kb.vmware.c...	10/31/2011 11:24:00 AM
ESXi-5.0.0-469512-standard	VMware, Inc.	The general availability release of VMWare ES...	8/19/2011 1:31:05 AM

Name	Description	Version	Vendor	Release Date
ata-pata-atixp	ATI SATA Controllers Driver	0.4.6-3vmw.500.0.469512	VMware	8/19/2011 1:59:2
ehci-ehci-hcd	USB 2.0 ehci host driver	1.0-3vmw.500.0.469512	VMware	8/19/2011 1:58:5
net-igbge	Intel Oqlin 10GigE Network Driver	2.0.84.8.2-10vmw.500.0.469512	VMware	8/19/2011 1:59:1
scsi-megaraid2	LSI Logic MegaRAID Driver	2.00.4-9vmw.500.0.469512	VMware	8/19/2011 1:59:1
uhci-usb-uhci	USB 1.0 uhci host driver	1.0-3vmw.500.0.469512	VMware	8/19/2011 1:59:3
net-r8168	Realtek 8168	8.013.00-3vmw.500.0.469512	VMware	8/19/2011 1:59:3
ohci-usb-ohci	USB 1.0 ohci host driver	1.0-3vmw.500.0.469512	VMware	8/19/2011 1:59:3
scsi-qlogicxx	QLogic iSCSI HBA Driver	5.0.103.2-3vmw.500.0.469512	VMware	8/19/2011 1:59:3
ata-pata-sil160	SIL680 IDE/PATA Controller Driver	0.4.8-3vmw.500.0.469512	VMware	8/19/2011 1:59:2
scsi-mpt2as	LSI Fusion MPT2 6G SAS driver	06.00.00.00-5vmw.500.0.469512	VMware	8/19/2011 1:59:1
scsi-alc79xx	alc79xx driver	3.1-5vmw.500.0.469512	VMware	8/19/2011 1:58:3
ata-pata-amd	AMD/NVidia PATA Driver	0.3.10-3vmw.500.0.469512	VMware	8/19/2011 1:59:2
net-bmx2	Broadcom NetXtreme II Gigabit Ethernet Drive	2.0.15g.v50.11-5vmw.500.0.469512	VMware	8/19/2011 1:58:3
ata-pata-serverworks	Serverworks PATA Driver	0.4.3-3vmw.500.0.469512	VMware	8/19/2011 1:59:2
esx-base	For build informatin, see KB http://kb.vmware	5.0.0-0.4.504890	VMware	11/3/2011 12:00:1

At this point the image profile's grid will be populated.

Figure 7

Image Clone

The screenshot shows the VMware Auto Deploy interface with the 'Software Depot' tab selected. A context menu is open over an image entry. The menu options are: Clone (highlighted with a red box), Remove, Export, Commit, and Add Software Packages. Below the menu, there is a table with columns: Name, Description, Version, Vendor, and Release Date. The table lists several software packages including net-igbe, ata-pata-hpt3x2n, esx-base, and ehci-ehci-hcd.

Name	Description	Version	Vendor	Release Date
net-igbe	Intel Oqlin 10GigE Network Driver	2.0.84.8.2-10vmw.500.0.0.469512	VMware	8/19/2011 1:59
ata-pata-hpt3x2n	Highpoint Technology HPT3x2n PATA Driver	0.3.4-3vmw.500.0.0.469512	VMware	8/19/2011 1:59
esx-base	Forbuild informatin, see KB: http://kb.vmware.com/	5.0.0-0.3.474610	VMware	9/13/2011 12:0
ehci-ehci-hcd	USB 2.0 ehci host driver	1.0-3vmw.500.0.0.469512	VMware	8/19/2011 1:58

Figure 8

In this example we need to create a new image, based on a standard image with HA and vCloud modules added.

To create a custom image we have to clone an original one and modify the content.

Note: You cannot edit a read only image

The screenshot shows the 'Clone Image' dialog box. The 'Clone' tab is selected. The 'Ready to Complete' section displays the following fields:

- Name: ESXi-5.0.0-20110904001-vCloud
- Vendor: VMware, Inc.
- Acceptance: PartnerSupported
- Description: vCloud Build

A checkbox labeled 'Read Only' is located below the description field. At the bottom of the dialog are buttons for 'Help', '< Back', and 'Next >'.

Figure 9

Complete the dialog fields.

Note: Don't select the read only flag as this will make the image unchangeable.

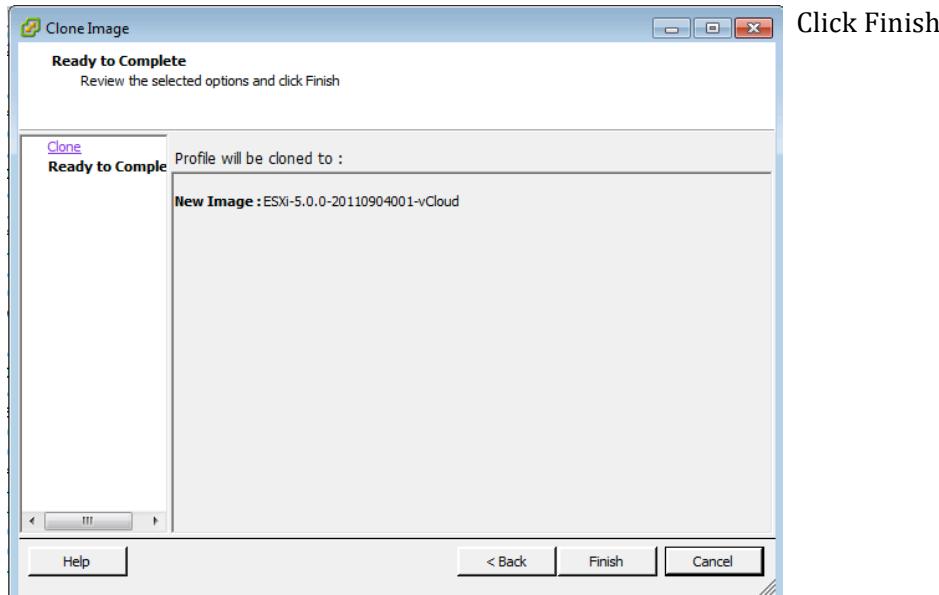


Figure 10

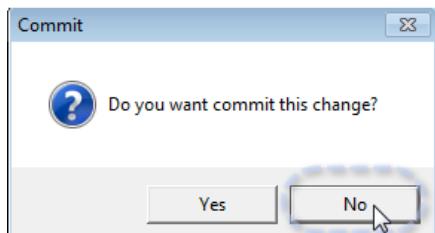


Figure 11

Each time an image is changed a dialog box will be shown.
To make the change persistent on the disk you have to click yes.

Now click no

Name	Vendor	Description	Last Modified
ESXi-5.0.0-20111104001-standard	VMware, Inc.	For more information, see http://kb.vmware.c...	10/13/2011 3:02:00 PM
ESXi-5.0.0-20111104001-no-tools	VMware, Inc.	For more information, see http://kb.vmware.c...	10/13/2011 3:02:00 PM
ESXi-5.0.0-20110904001-standard	VMware, Inc.	For more information, see http://kb.vmware.c...	8/26/2011 1:41:00 PM
ESXi-5.0.0-469512-no-tools	VMware, Inc.	The general availability release of VMware ES...	8/19/2011 1:31:05 AM
ESXi-5.0.0-20111204001-no-tools	VMware, Inc.	For more information, see http://kb.vmware.c...	10/31/2011 11:24:00
ESXi-5.0.0-20110904001-vCloud	VMware, Inc.	vCloud Build	8/26/2011 1:41:00 PM
ESXi-5.0.0-20110904001-no-tools	VMware, Inc.	For more information, see http://kb.vmware.c...	8/26/2011 1:41:00 PM
ESXi-5.0.0-20111204001-standard	VMware, Inc.	For more information, see http://kb.vmware.c...	10/31/2011 11:24:00
ESXi-5.0.0-469512-standard	VMware, Inc.	The general availability release of VMware ES...	8/19/2011 1:31:05 AM

A new image called **ESX-5.0.0-20110904001-vCloud** is now shown on the grid

Figure 12

Add software packages

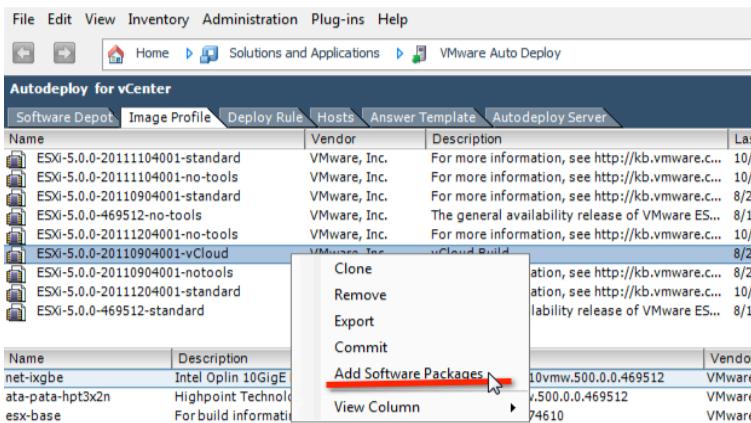


Figure 13

Now we can add the two software packages.

Click on *Add Software Packages*

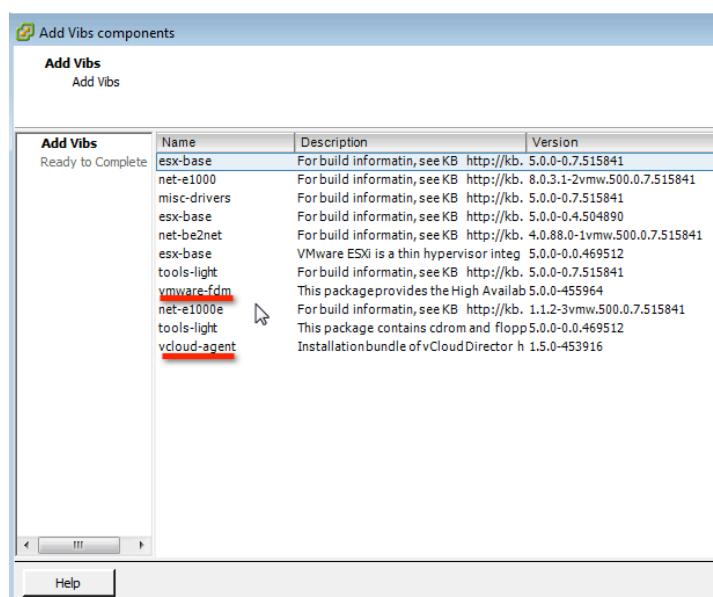
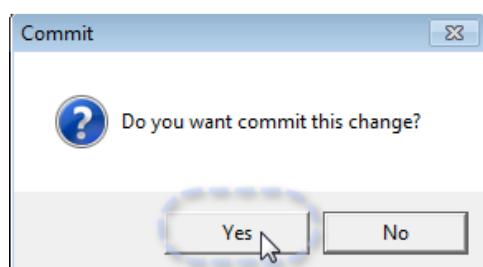


Figure 14

Choose the components and click Finish.

Note: **vmware-fdm** and **vcloud-agent** in this example



Now click Yes to save the new modified image to disk

Figure 15

Recent Tasks						
Name	Target	Status	Details	Initiated by	vCenter Server	Requested S
Commit bundle change	AutoVCO2.AutoDeploy.local	20%		AUTODEPLO...	AutoVCO2.aut...	1/10/2012 6:
Connects to a new depot	AutoVCO2.AutoDeploy.local	Completed		AUTODEPLO...	AutoVCO2.aut...	1/10/2012 6:

Figure 16

A new vCenter task will appear on the recent task panel.

Note: no other operations can be performed in **Image Builder** during the commit

Deploy Rule

Add Rule

The screenshot shows the VMware Auto Deploy interface with the 'Deploy Rule' tab selected. The top navigation bar includes File, Edit, View, Inventory, Administration, Plug-ins, and Help. Below the navigation is a breadcrumb trail: Home > Solutions and Applications > VMware Auto Deploy. The main menu bar has Software Depot, Image Profile, Deploy Rule, Hosts, Answer Template, and Autodeploy Server. The bottom navigation bar includes Active, Name, Image Profile, Host Profile, vCenter, and Cluster/F. A red box highlights the 'Add' button in the top right corner of the main content area.

Figure 17

We will now create the first Rule.

Choose the Deploy Rule tab

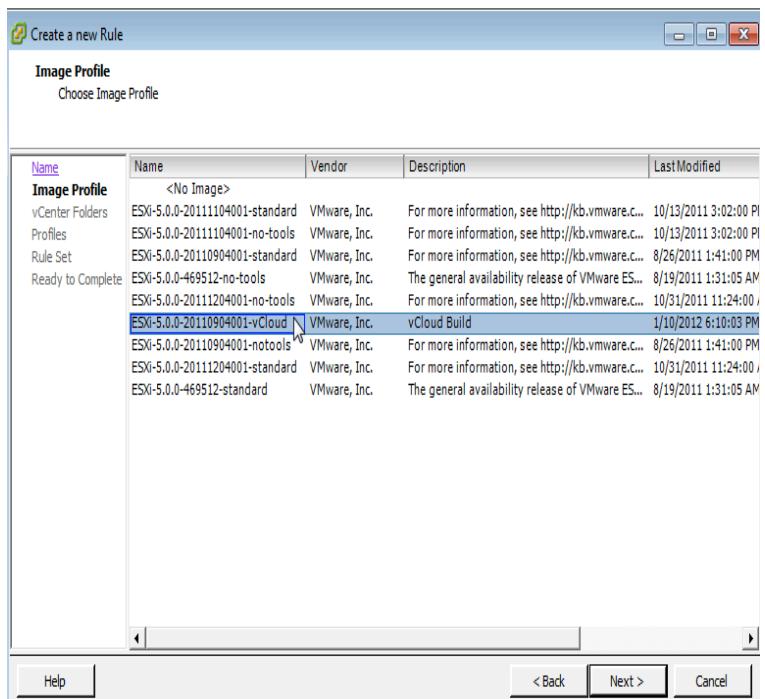
Click Add.

The screenshot shows the 'Create a new Rule' dialog box. The title bar says 'Create a new Rule'. The 'Rule Set Name' dropdown is set to 'Image Profile'. The main area contains instructions about rules and a 'Rule name:' input field containing 'New Rule'. At the bottom are 'Help', '< Back', 'Next >', and 'Cancel' buttons.

Figure 18

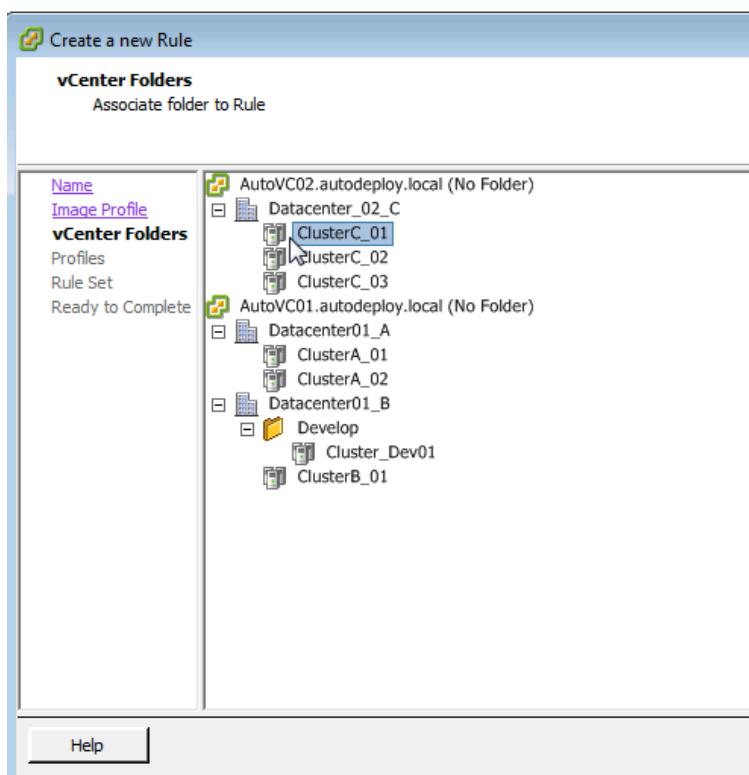
Assign a name

"new rule" in this example



Select the image **ESX-5.0.0-20110904001-vCloud** created in the previous section

Figure 19



Choose the appropriate folder/cluster, if applicable

In this example ClusterC_01 will be used

Figure 20

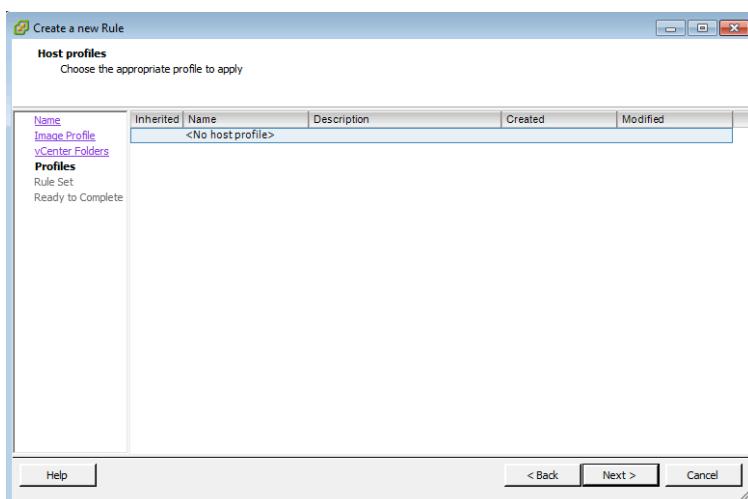


Figure 21

There are currently no host profiles configured in this example

Click *Next*

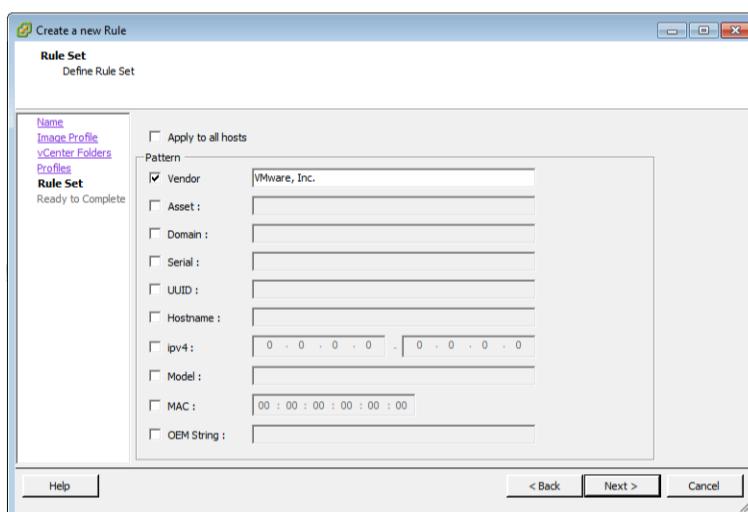


Figure 22

Define the Rule Set, in this example we will set Vendor= VMware, Inc.

This is to be used with a virtual VMware ESXi on ESX

Note: To apply to all hosts select the checkbox

Click Finish

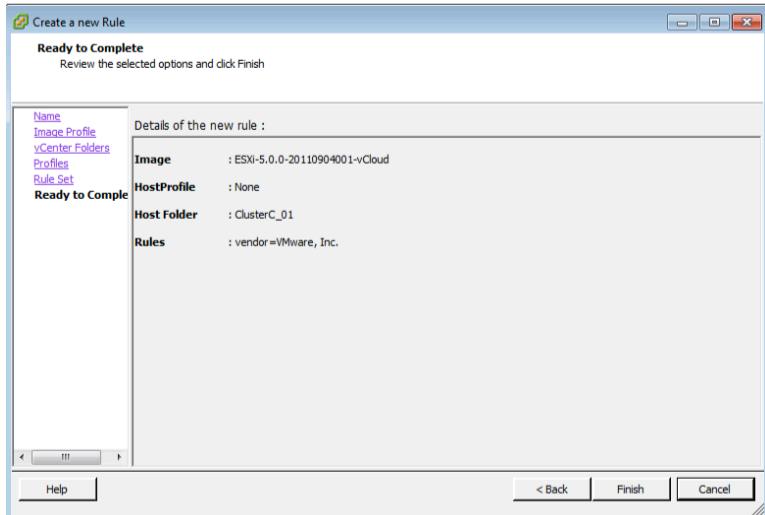


Figure 23

At this point various tasks will begin

Recent Tasks		
Name	Target	Status
Injects Vib into cache	AutoVC02.autodeploy.local	In Progress
Creates a new rule	AutoVC02.autodeploy.local	30%

Figure 24

Activate Rule

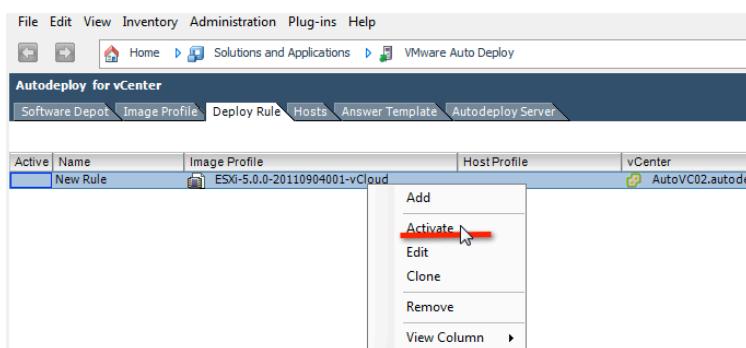


Figure 25

Now that the “New_Rule” rule is defined, we have to activate it.

Note : The Edit option is greyed out if images are Active or Read Only

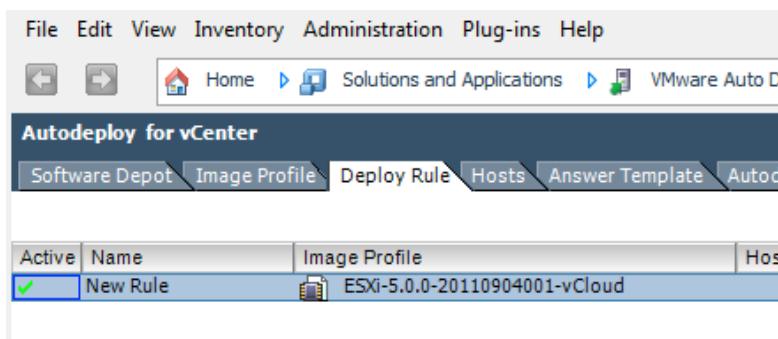


Figure 26

A green flag should appear near the rule name to show this rule is active.

The next step is to deploy our first stateless ESXi.

Stateless ESXi

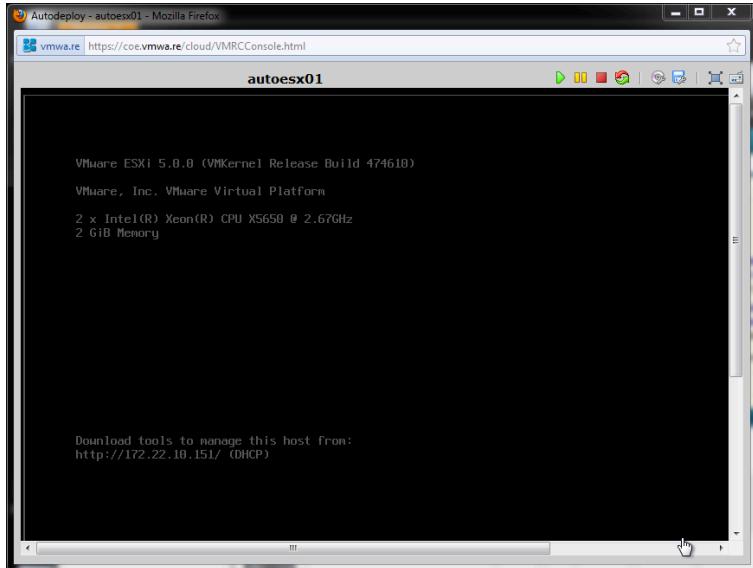


Figure 27

Now the first stateless ESXi host will be powered on.

You will see a similar view as shown in the screenshot.

A screenshot of the vCenter interface. The top navigation bar includes File, Edit, View, Inventory, Administration, Plug-ins, and Help. Below the navigation bar, the breadcrumb trail shows Home > Inventory > Hosts and Clusters. The left sidebar lists datacenters: AutoVC01.autodeploy.local (with Datacenter01_A and Datacenter01_B) and AutoVC02.autodeploy.local (with Datacenter_02_C). The main content area shows a summary for the host "172.22.10.151 VMware ESXi, 5.0.0, 474610 | Evaluation (60 days)". It displays a warning: "The ESXi host does not have persistent storage. To run virtual machines, create at least one datastore for maintaining persistent storage. Note: If you plan to use iSCSI or a network file system (NFS), ensure the host has access to the storage array." A link "To add storage now, click here to create a datastore..." is present. On the right, there are tabs for Hardware (Processor, Memory, Storage) and Configuration (General, Model, Processor Speed).

Figure 28

The host will now appear in the vCenter hierarchy as configured in the previous steps

Configure first ESXi

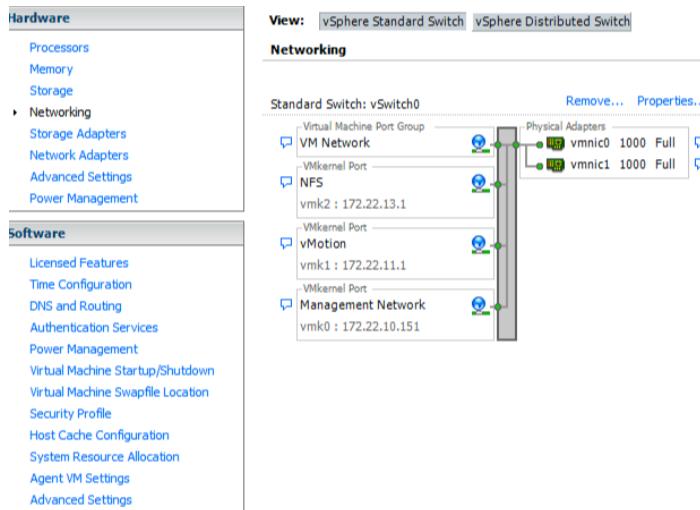


Figure 29

Now we can proceed with the ESXi configuration, in this example only the network will be modified.

Changes:

Added Portgroups:

- *VMotion*: IP: 172.22.11.1/24
- *NFS*: IP: 172.22.13.1/24

Nics: Add *vmnic1*

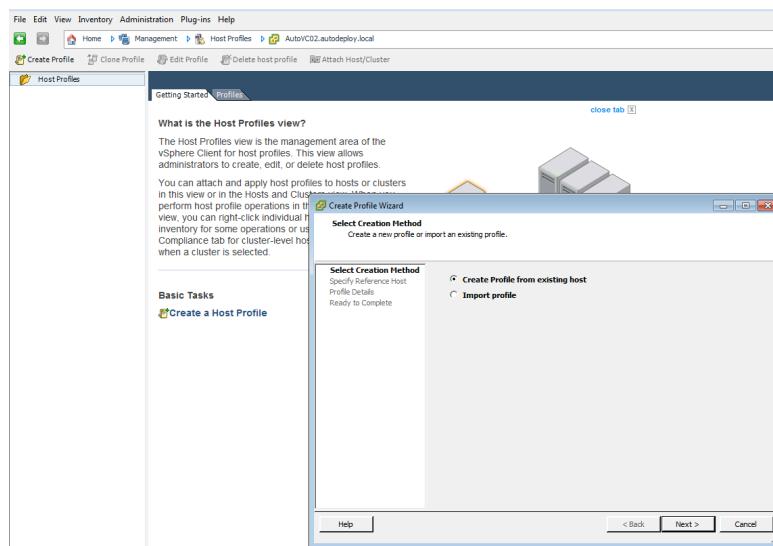
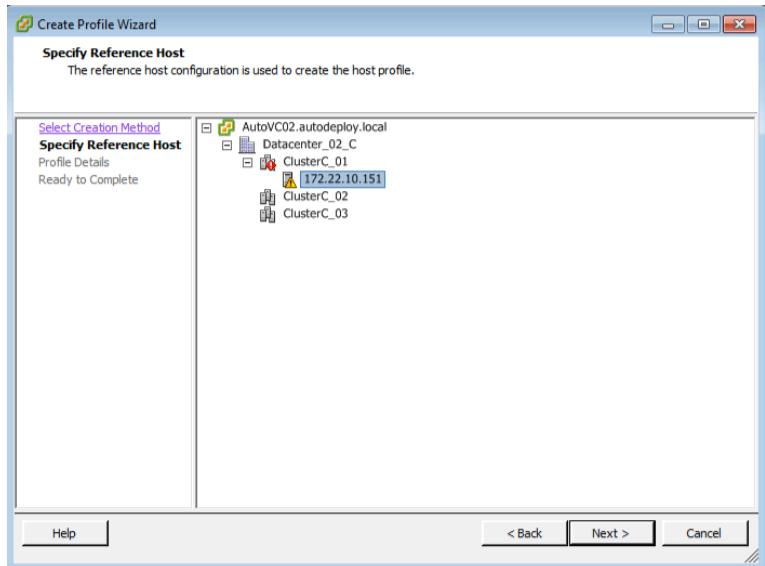


Figure 30

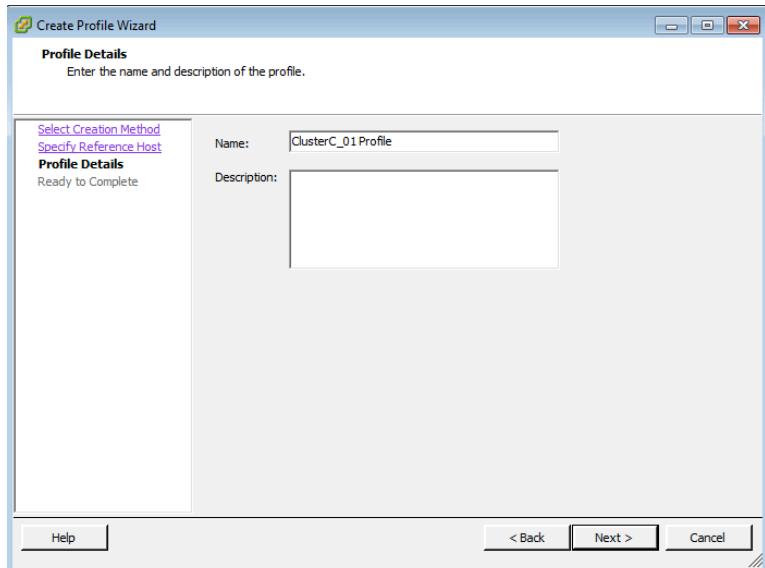
The next step is to create an Host Profile using a specific host as the source.

To do this, open the *Host Profiles* panel and click *Create a Host Profile*, and after *Create Profile from existing host*



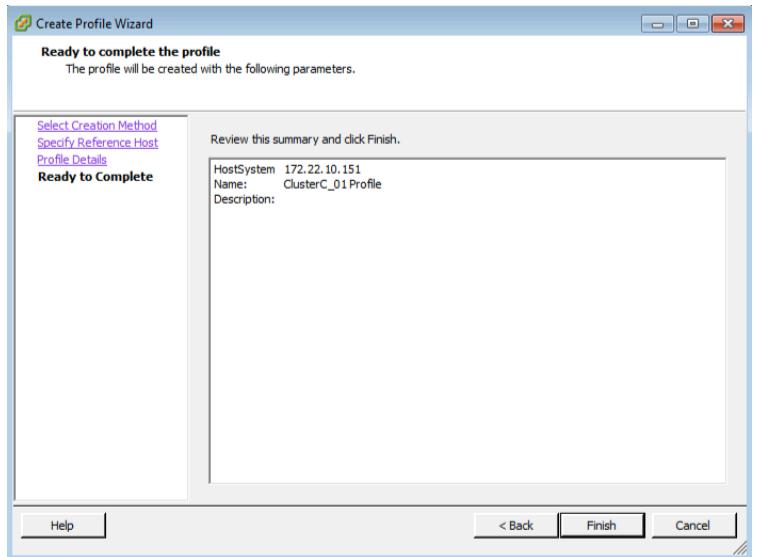
Select the new VMware ESXi

Figure 31



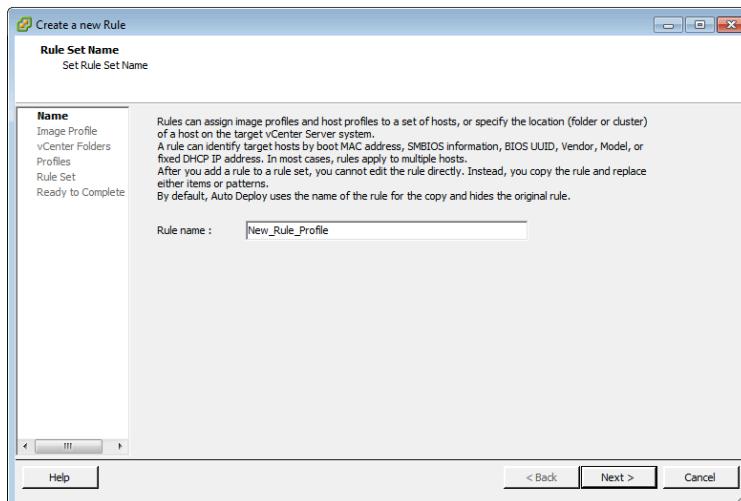
Assign a name , in this example
ClusterC_01Profile

Figure 32



Click Finish

Figure 33



Now that a new *host Profile* is available, we have only to create a new rule to assign this *host Profile* to all new hosts.

To proceed, we need to return to the Auto Deploy GUI, under *Deploy Rule Tab*, and click *Add Rule*.

Assign a name, *New_Rule_Profile* in this example

Figure 34

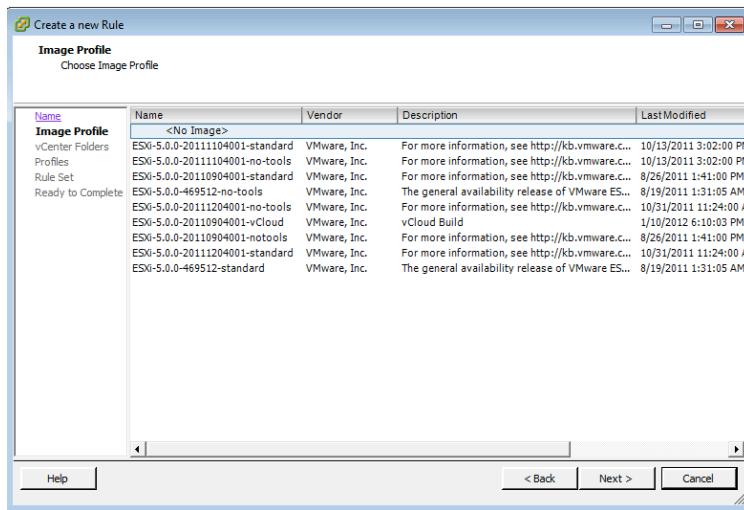
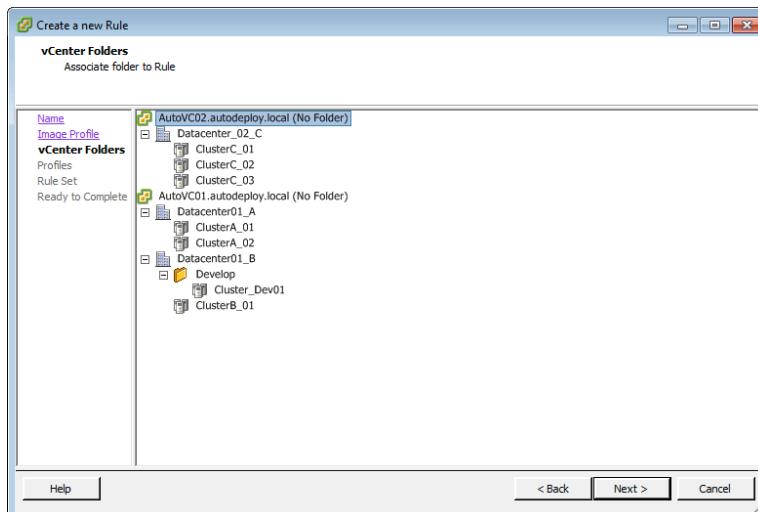


Figure 35

Choose **No Image** (we already have an image definition in *New_Rule* rule)



Choose the right vCenter (if more than one is available), selecting the vCenter server rather than a folder or cluster

Note: Do not select a datacenter or cluster, you must select the vCenter server

Figure 36

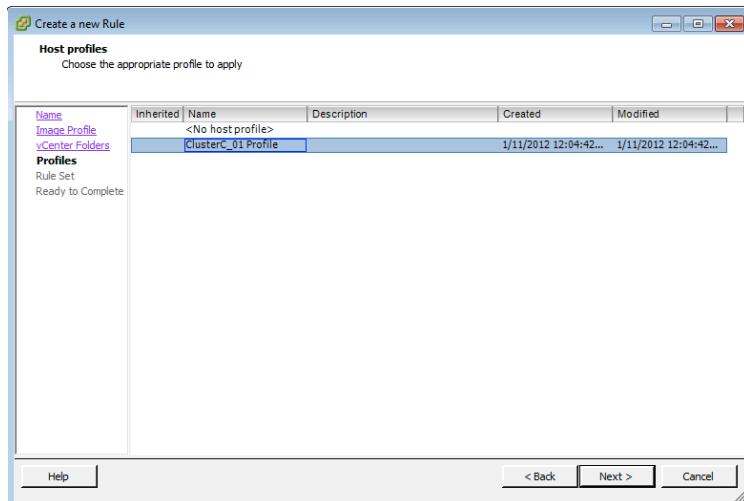


Figure 37

Finally select the new Host Profile

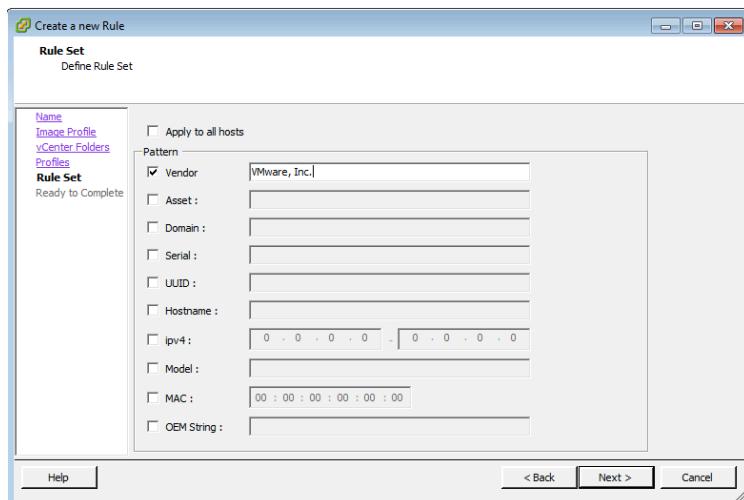


Figure 38

Note: assign the same Rule set as configured when we created the previous rule

Vendor: VMware, Inc. (in this example)

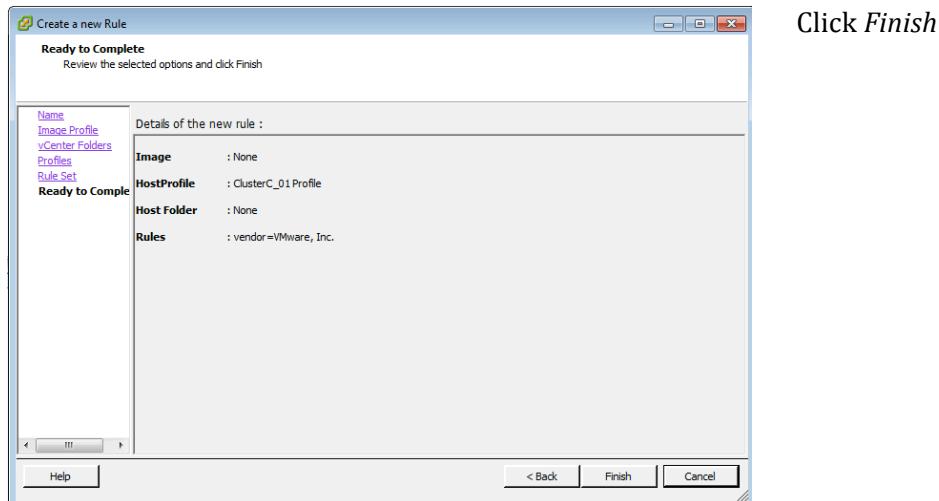
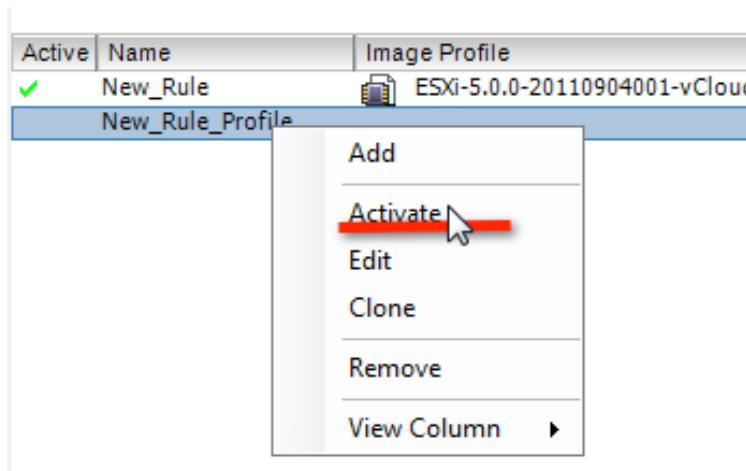


Figure 39

This is the result

Active	Name	Image Profile	Host Profile	vCenter
✓	New_Rule_Profile	ESXi-5.0.0-20110904001-vCloud	ClusterC_01 Profile	AutoVC02.au

Figure 40



Now we have to activate the new rule.

Select the “New_Rule_Profile” and click on *Activate*

Figure 41

Hosts management

Name	vCenter	Image Profile	Associated HostProfile	Cluster/Folder	Deploy Rule Compli
172.22.10.151	AutoVC02.autodeploy.tc	ESXi-5.0.0-20110904001-vCloud		ClusterC_01	Unknown

Figure 42

At this point we should have a Host in *Hosts* Tab

Name	HostProfile	Image Profile	Cluster/Folder	Pattern
New_Rule		ESXi-5.0.0-20110904001-vCloud	ClusterC_01	vendor=VMware, Inc.
New_Rule_Profile	ClusterC_01 Profile			vendor=VMware, Inc.

Figure 42

- Test Deploy Rule Compliance
- Repair Deploy Rule Set
- Change ESX Image Profile
- Check Answer File
- Apply Host Profile
- View Column

Next step is to check the host Deploy Rule Compliancy.

Select the host and click on *Test Deploy Rule Compliance*

Figure 43

Name	vCenter	Image Profile	Associated HostProfile	Cluster/Folder	Deploy Rule Compliance
172.22.10.151	AutoVC02.autodeploy.tc	ESXi-5.0.0-20110904001-vCloud		ClusterC_01	Noncompliant

ComplianceFailure Type	Current	Expected
HostProfile		ClusterC_01 Profile

Test returns a no compliancy, this is expected because we added a new rule

Figure 44

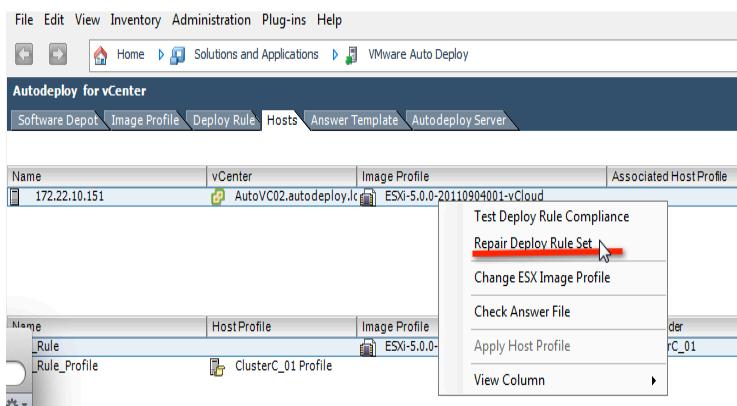


Figure 45

To fix the non compliance click on
Repair Deploy Rule Set

The screenshot shows the 'Deploy Rule Compliance' table. The first row has columns: 'Associated Host Profile', 'Cluster/Folder', 'Deploy Rule Compliance', 'Compliance - Last Checked', and 'Ans'. It shows 'ClusterC_01 Profile' under 'Associated Host Profile', 'ClusterC_01' under 'Cluster/Folder', a green checkmark under 'Deploy Rule Compliance', and '1/11/2012 12:21:19 PM' under 'Compliance - Last Checked'. A green arrow points to the 'Deploy Rule Compliance' column. Below this table is another table with columns 'Cluster/Folder' and 'Pattern'. It shows 'ClusterC_01' under 'Cluster/Folder' and 'vendor=VMware, Inc.' under 'Pattern'.

Figure 46

Now it will be **compliant**

Host Profile Answer Template

The screenshot shows the VMware Auto Deploy interface. The top navigation bar includes File, Edit, View, Inventory, Administration, Plug-ins, and Help. Below the navigation is a breadcrumb trail: Home > Solutions and Applications > VMware Auto Deploy. The main title is "Autodeploy for vCenter". The navigation tabs are Software Depot, Image Profile, Deploy Rule, Hosts, Answer Template (which is selected), and Autodeploy Server. A table below lists a host profile: Name (ClusterC_01 Profile), vCenter (AutoVC02.autodeploy.local), and Description.

Name	vCenter	Description
ClusterC_01 Profile	AutoVC02.autodeploy.local	

Figure 47

To speedup the deployment , a new feature has been created , the **Host Profile Answer Template**.

Answer Template is a collection of IP and mac addresses ranges.

This information is used to createthe host answer file, if it has previously not existed or incomplete when a host profile is applied to a specific ESXi host.

The screenshot shows the same VMware Auto Deploy interface as Figure 47. The "Answer Template" tab is selected. A context menu is open over the "ClusterC_01 Profile" row. The menu items are: Create Answer Template (highlighted with a red box), Edit Answer Template, Remove Answer Template, and View Column.

Figure 48

To create an answer template, select a *Host Profile*, and click *Create Answer Template*

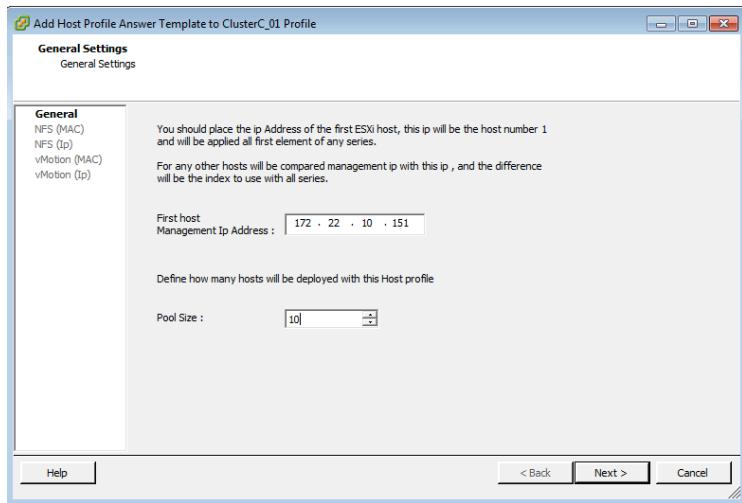


Figure 49

A wizard asks for all information that the host profile engine needs to know to apply a specific profile to any host.

You must complete the fields, the *first host management IP address*, this is the management IP assigned to the first ESXi in the pool.

Note: The Pool Size is based on the number of ESXi in this pool.

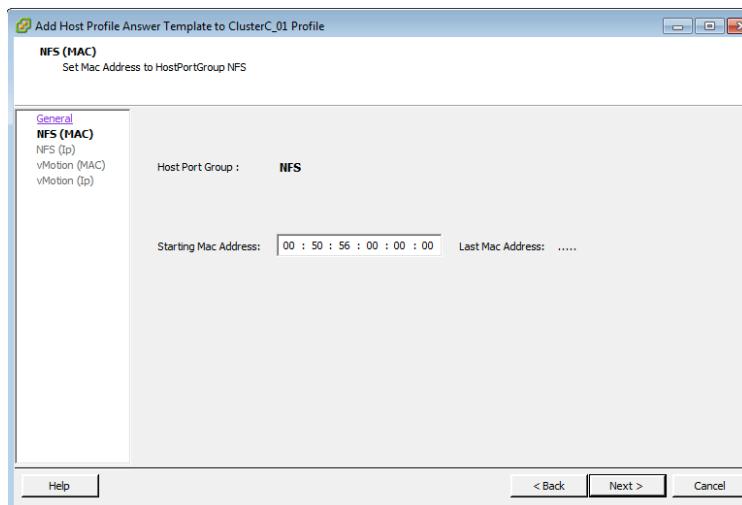


Figure 50

There are 2 types of parameters, optional and mandatory.

By default all parameters are facultative.

You can enter a starting MAC Address for NFS vKernel Port

Normally, you wont have to enter anything for a mac address, vCenter automatically generates a new mac address.

In this example is blank
00:50:56:00:00:00

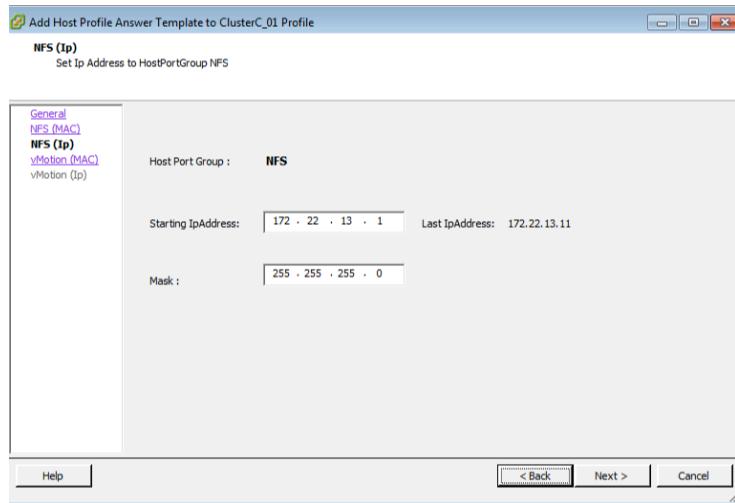


Figure 51

You have to define an IP address for NFS due to vCenter not having any associated IP with this interface.

In this example is 172.22.13.1/24

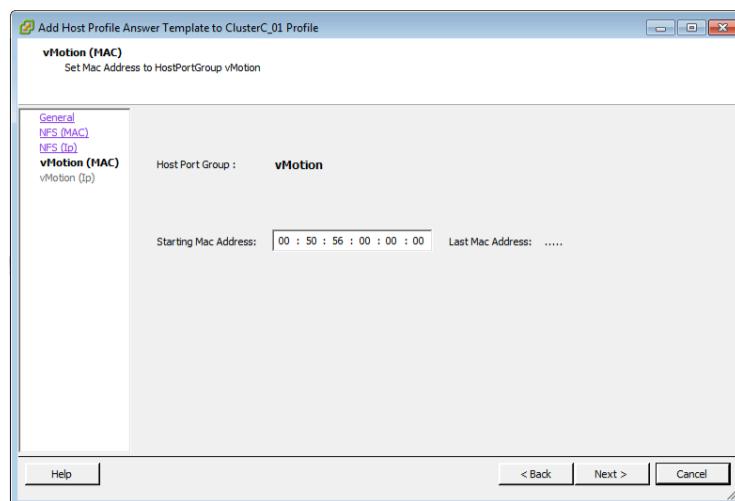


Figure 52

Mac for vMotion interface (facoltative)

In this example is blank
0:50:56:00:00:00

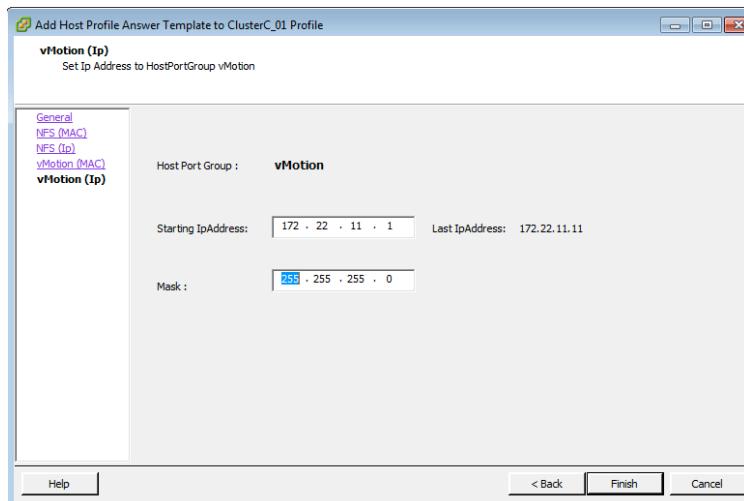


Figure 53

IP Address for vMotion

In this example 172.22.11.1/24

Click Finish

Name	vCenter	Description	Answer Template	First Management ipAddress	Pool Size
ClusterC_01 Profile	AutoVC02.autodeploy.local			172.22.10.151	10

Element	Name	Mandatory	Value Range
HostPortGroup:NFS	ipV4Address		From:172.22.11.1 To:172.22.11.11 mask:255.255.255.0
HostPortGroup:vMotion	ipV4Address		From:172.22.11.1 To:172.22.11.11 mask:255.255.255.0

Figure 54

Once completed you will see the screenshot

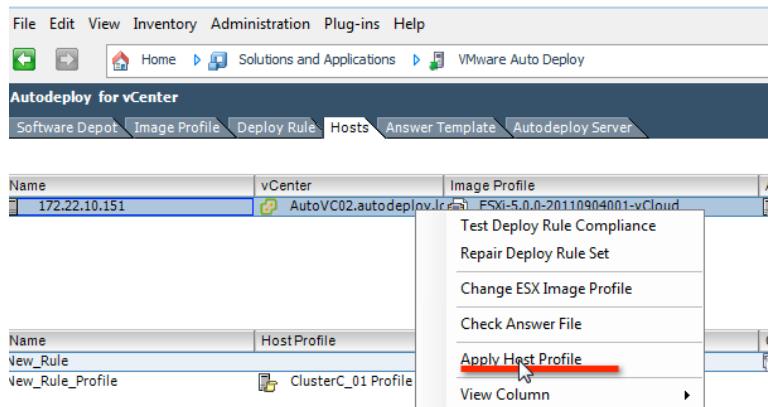
Name	vCenter	Image Profile	Associated Host Profile	ClusterFolder	Deploy Rule Compliance	Compliance-Last Checked	Answer File Template	Answer File Status	Index
172.22.10.151	AutoVC02.autodeploy.local	ESXi-5.0.0-2011094001+Cloud	ClusterC_01 Profile	ClusterC_01	Compliant	1/1/2012 12:21:19 PM	Index 0	Incomplete	1/1

Name	HostProfile	Image Profile	ClusterFolder	Pattern
New_Rule_Profile	ClusterC_01 Profile	ESXi-5.0.0-2011094001+Cloud	ClusterC_01	vendor\VMware, Inc.

Figure 55

Now we can go back to the *Host* tab, and we see a new *Index:1* field under the *Answer File Template* column.

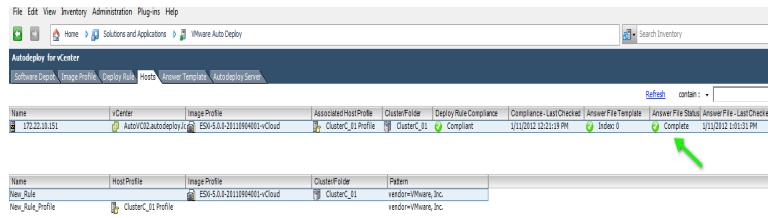
This means that this host is the first host in the pool.



Now we are ready to apply the Host Profile.

Click on *Apply Host Profile*

Figure 56



Everything is now compliant

Figure 57

Start Second ESXi

Now the second ESXi will be powered on

The screenshot shows the vSphere Web Client interface. The left pane displays the inventory tree with datacenters, clusters, and hosts. The right pane shows the configuration for the selected host, 172.22.10.152. A prominent yellow warning box states: "The ESXi host does not have persistent storage. To run virtual machines, create at least one datastore for non-volatile storage." Below this, it says: "Note: If you plan to use iSCSI or a network file system (NFS)..." and "To add storage now, click here to create a datastore...". The hardware tab is open, showing sections for Processors, Memory, Storage, Networking, Storage Adapters, Network Adapters, Advanced Settings, and Power Management.

This screenshot shows the VMware Auto Deploy interface. It lists two hosts: 172.22.10.151 and 172.22.10.152. Both hosts are associated with the same vCenter, image profile, and host profile. The Deploy Rule Compliance column shows 'Compliant' for both hosts. The bottom section shows the Deploy Rule configuration for 'New_Rule_Profile'.

Name	vCenter	Image Profile	Associated Host Profile	ClusterFolder	Deploy Rule Compliance	Compliance - Last Checked	Answer File Template	Answer File Status	Answer File Index
172.22.10.151	AutoVC02.autodeploy.local	ESXi-5.0.0-20110904001-vCloud	ClusterC_01 Profile	ClusterC_01	Compliant	1/1/2012 12:21:19 PM	Index 0	Complete	1/1/2012
172.22.10.152	AutoVC02.autodeploy.local	ESXi-5.0.0-20110904001-vCloud	ClusterC_01 Profile	ClusterC_01	Unknown		Index 1	Incomplete	1/1/2012

... this should be the actual situation.

This screenshot shows the VMware Auto Deploy interface with a context menu open over the second host, 172.22.10.152. The menu options include 'Test Deploy Rule Compliance' (which is highlighted in red), 'Repair Deploy Rule Set', 'Change ESX Image Profile', 'Check Answer File', 'Apply Host Profile', and 'View Column'.

Just to check that everything is ok, we can run a deploy rule compliance.

Select the new host and click *Test Deploy Rule Compliance*

The screenshot shows the VMware Auto Deploy interface. In the main pane, there are two tables: one for 'Image Profile' and one for 'Deploy Rule Compliance'. The 'Deploy Rule Compliance' table has columns: Associated Host Profile, Cluster/Folder, Deploy Rule Compliance, Compliance - Last Checked, Answer File Template, Answer File Status, and Answer File - Last Checked. There are two rows: one for 'ClusterC_01 Profile' which is 'Compliant' and another for 'ClusterC_01 Profile' which is 'Incomplete'. A context menu is open over the second row, with the 'Apply Host Profile' option highlighted.

The screenshot shows the VMware Auto Deploy interface. In the main pane, there is a table for 'Hosts and Clusters' with columns: Cluster/Folder, Pattern, and vendor=VMware, Inc. There are two rows: one for 'ClusterC_01' and another for 'ClusterC_01'. A green arrow points to the 'Complete' status in the 'Answer File Status' column of the second row.

The screenshot shows the VMware vSphere Client interface. The navigation bar includes File, Edit, View, Inventory, Administration, Plug-ins, and Help. The main pane displays a tree view of datacenters and clusters. Under 'AutoVC01.autodeploy.local', there are Datacenter01_A (with ClusterA_01 and ClusterA_02) and Datacenter01_B (with Develop, Cluster_Dev01, and ClusterB_01). Under 'AutoVC02.autodeploy.local', there is Datacenter_02_C (with ClusterC_01, which is in maintenance mode, and ClusterC_02, ClusterC_03).

The new host state should be:

Deploy Rule Compliance: Compliant

Answer File Template: Index: 1

Answer File Status: Incomplete

Now we can apply the *host profile*

We have to wait some seconds and we should have the host in this state:

Deploy Rule Compliance: Compliant

Answer File Template: Index: 1

Answer File Status: Complete

Our hosts are online and configured ☺

Note: no datastore have been configured in this example

Thanks and enjoy the product