



ACS 5.0 Evaluation Version Installation Notes

January, 2009

Contents

- Minimal System Requirements
- Overview
- ACS 5.0 Virtual Machine (VM) Configuration
- ACS 5.0 Network Configuration
- ACS 5.0 GUI Access
- ACS 5.0 Eval License

Overview

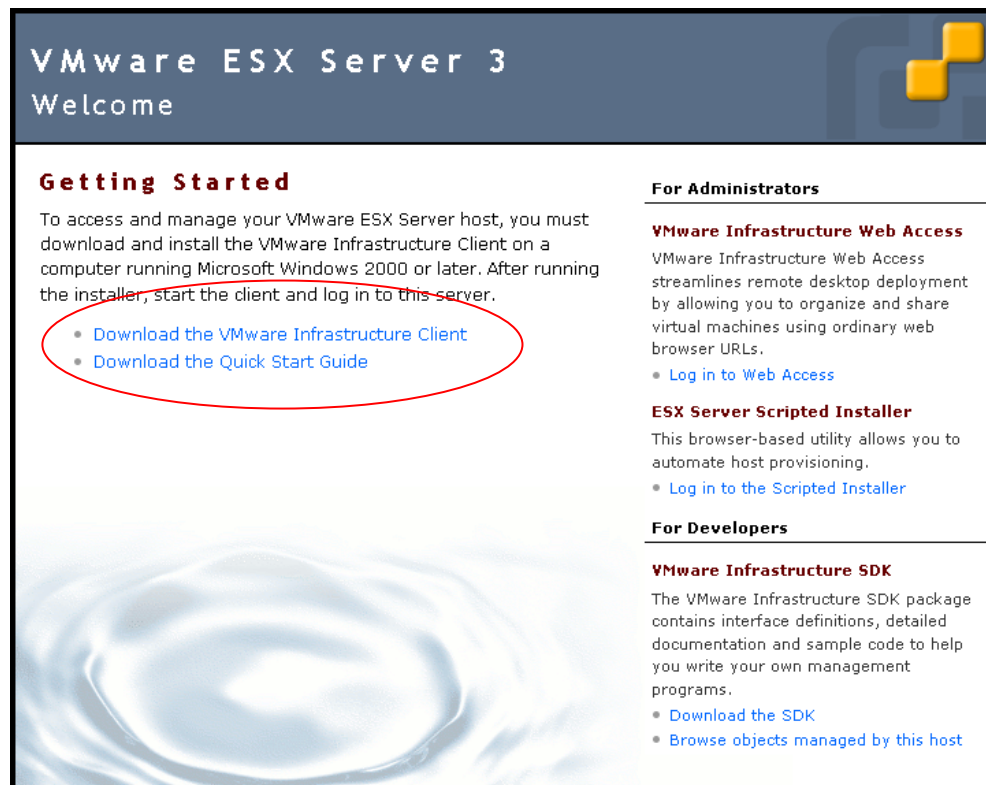
- Eval version will be supported on:
 - VMware ESX 3.5
 - VMware Server 2.0 (on Windows XP, Vista, or 2003 Server)
- While these instructions are based on ESX 3.5, they apply to VMware Server 2.0 as well.

Virtual Machine System Requirements

- 1 CPU or more
- 2 GB RAM or greater
- Exactly 60 GB Hard Disk
- 1 Network Interface Card
- 1 CD/DVD drive

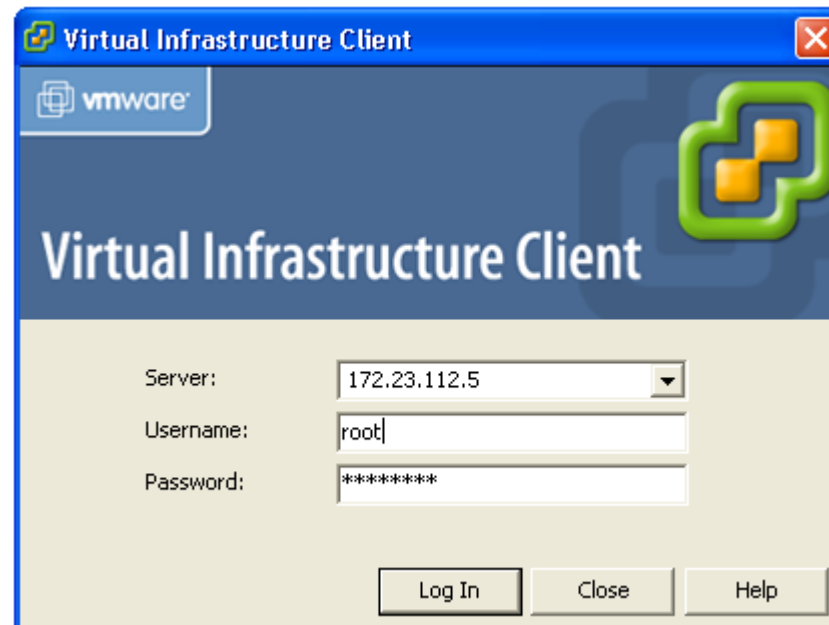
ACS 5.0 Virtual Machine Configuration

- VMware Infrastructure Client is required to configure ESX
- Download and install VMWare Infrastructure client software, use the following URL:
<http://<IP Address of ESX Server>>
- Complete the installation process following the system wizard



ACS 5.0 Virtual Machine Configuration

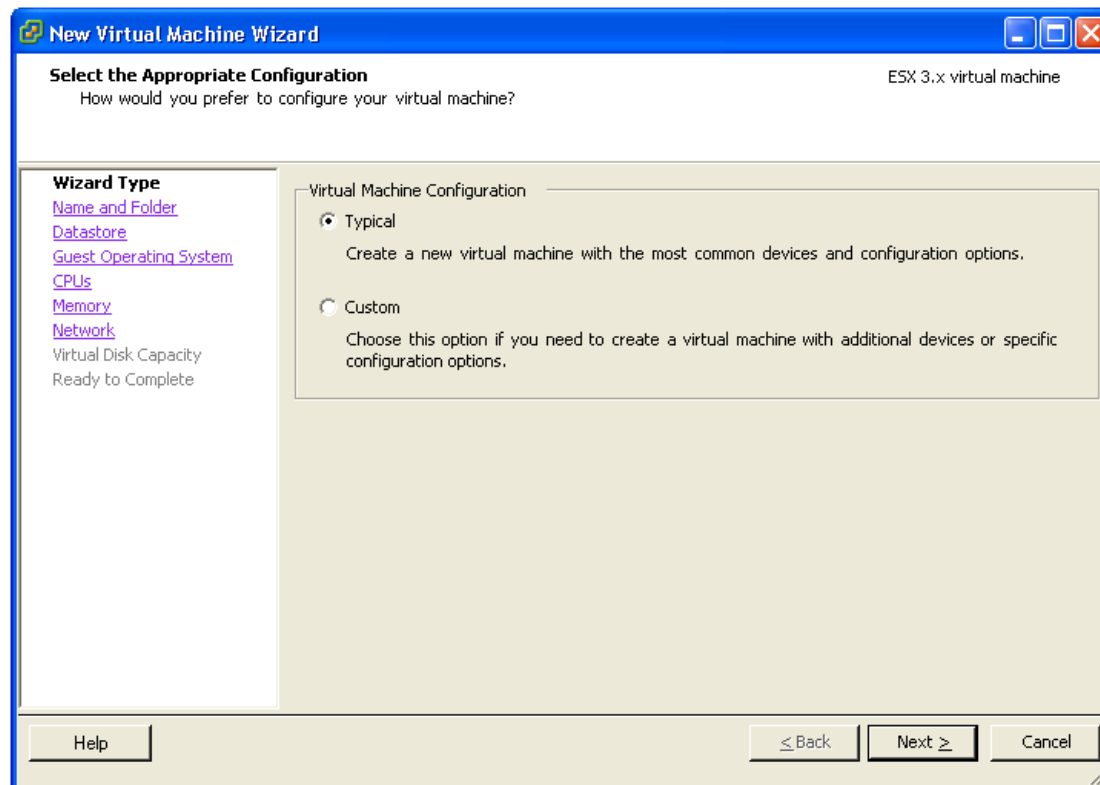
- Open VMware VMWare Infrastructure Client
- Use your ESX Server credentials to log in



ACS 5.0 Virtual Machine Configuration

Create New Virtual Machine

- Step 1: Go to **Getting Started**
- Step 2: Click **Create a New Virtual Machine**
- Step 3: Select Virtual Machine Configuration as **Typical**



ACS 5.0 Virtual Machine Configuration

- Step 4: Click Next
- Step 5: Give the Name for the Virtual Machine (i.e **ACS5.0**)
(Snapshot for reference)

New Virtual Machine Wizard

Select a Name and Location for this Virtual Machine
What do you want to call this virtual machine and where do you want it located?

ESX 3.x virtual machine

Wizard Type
Name and Folder
Datastore
Guest Operating System
CPUs
Memory
Network
Virtual Disk Capacity
Ready to Complete

Provide a name for the new virtual machine and select its location in the inventory panel below. Virtual machine names can contain up to 80 characters, but they must be unique within each inventory folder.

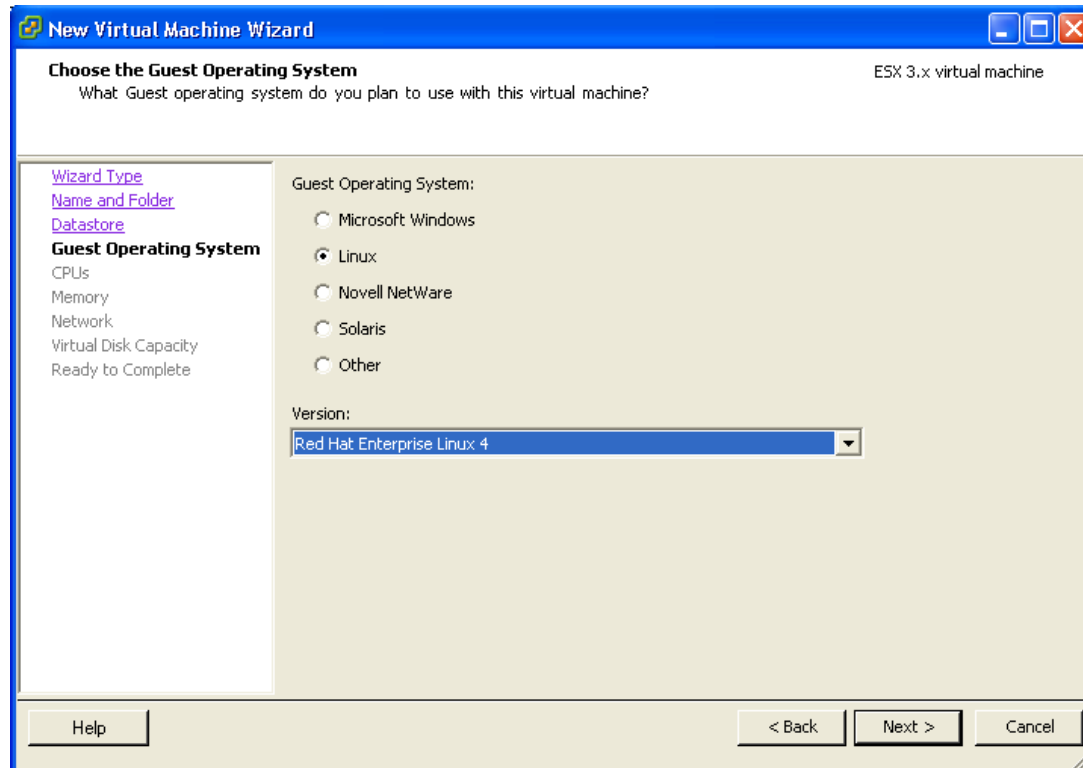
Virtual Machine Name:
ACS5.0

Virtual machine folders are unavailable when connected directly to the host.

Help < Back Next > Cancel

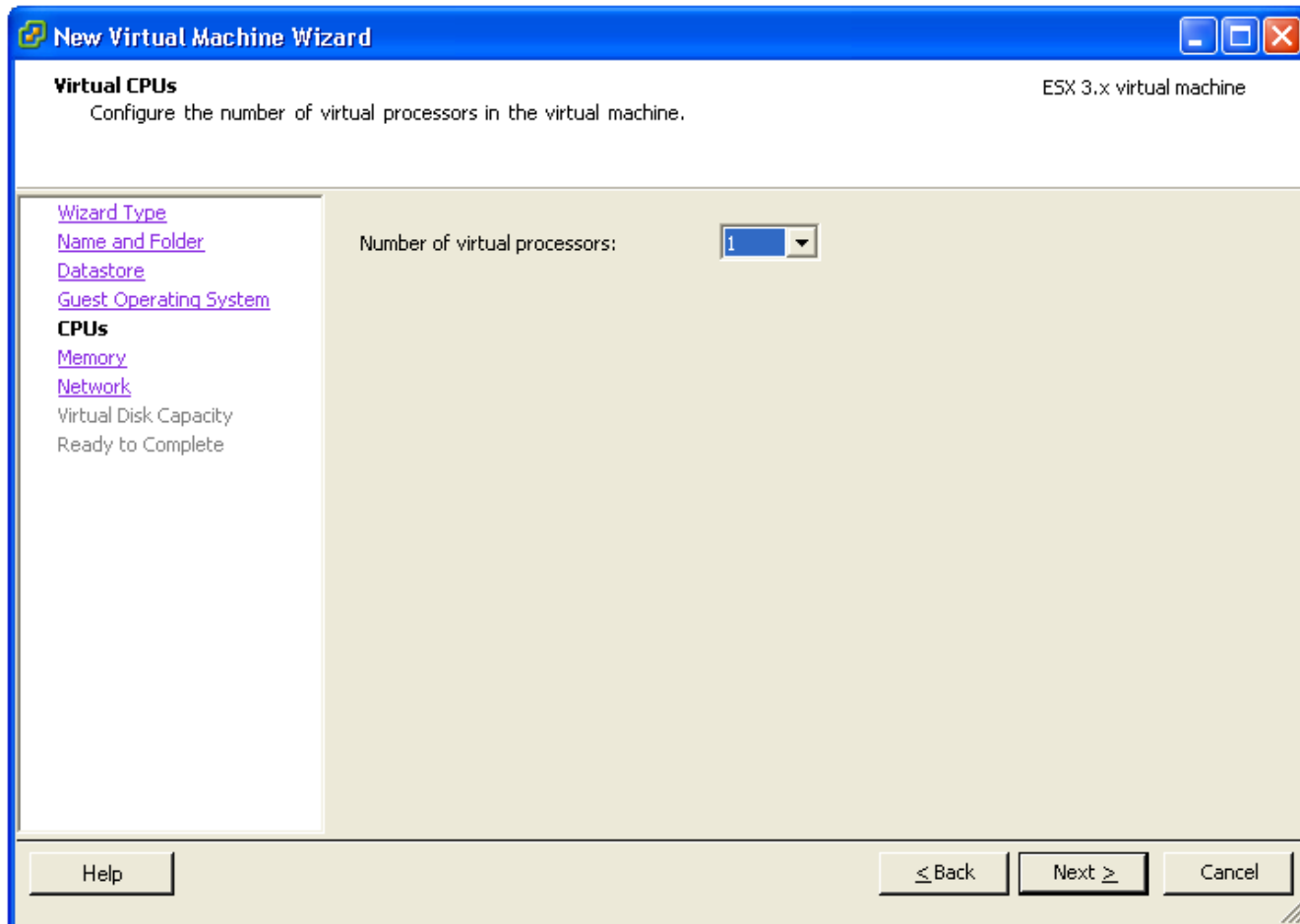
ACS 5.0 Virtual Machine Configuration

- Step 6: Click **Next** until we get option to select the data source.
- Data store is the one which is used to store the files for the Virtual Machine.
- Step 7: Leave the default values for the **Data Store for the virtual machine**, and Click Next.
- Step 8: Select **Linux** as Guest OS and RedHat Enterprise Linux 4 (32-bit). Then Click Next.



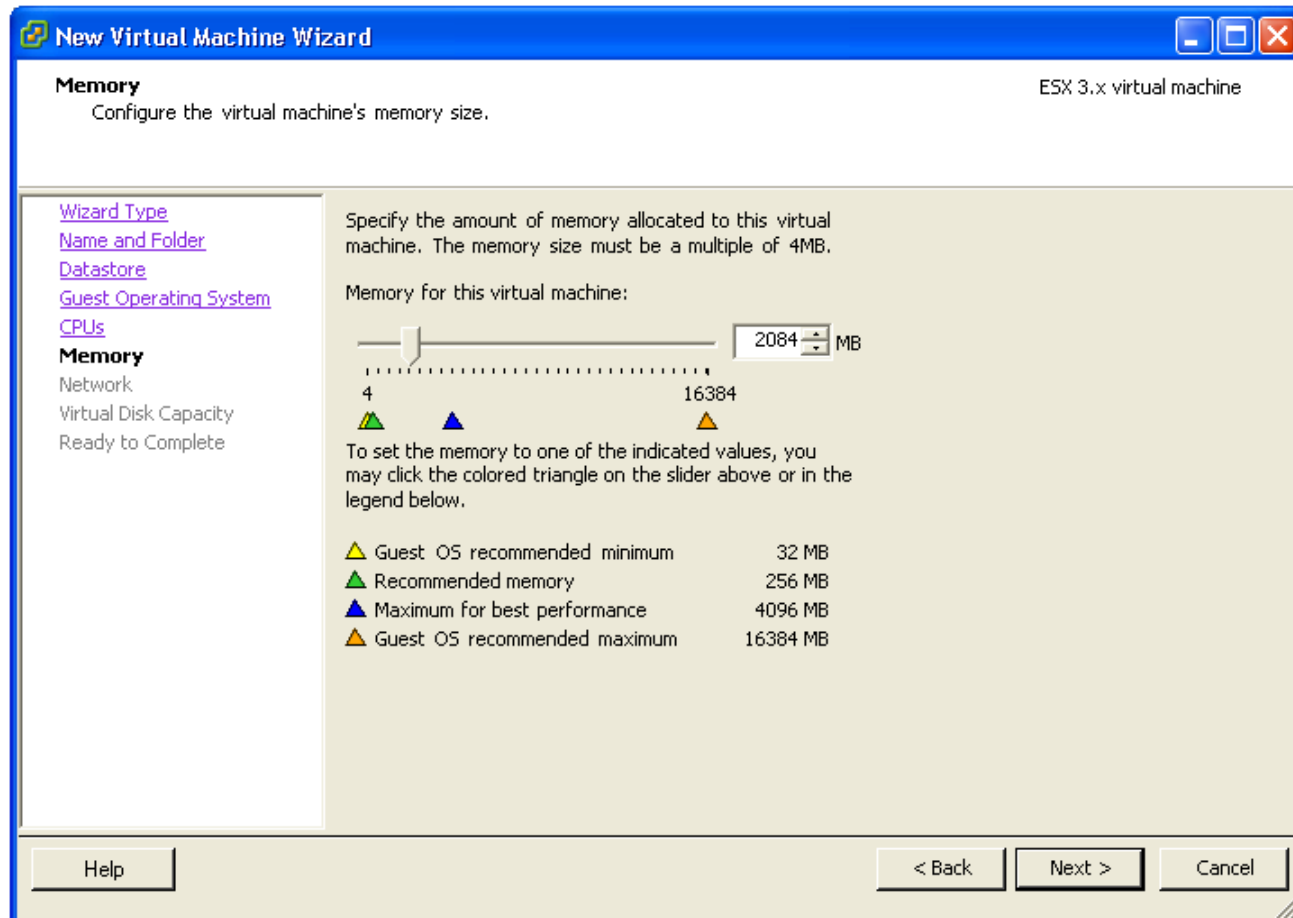
ACS 5.0 Virtual Machine Configuration

- Step 9: Select the **Number of Virtual Process** as **1**, and then Click **Next**
(It can also work with 2 CPUs)



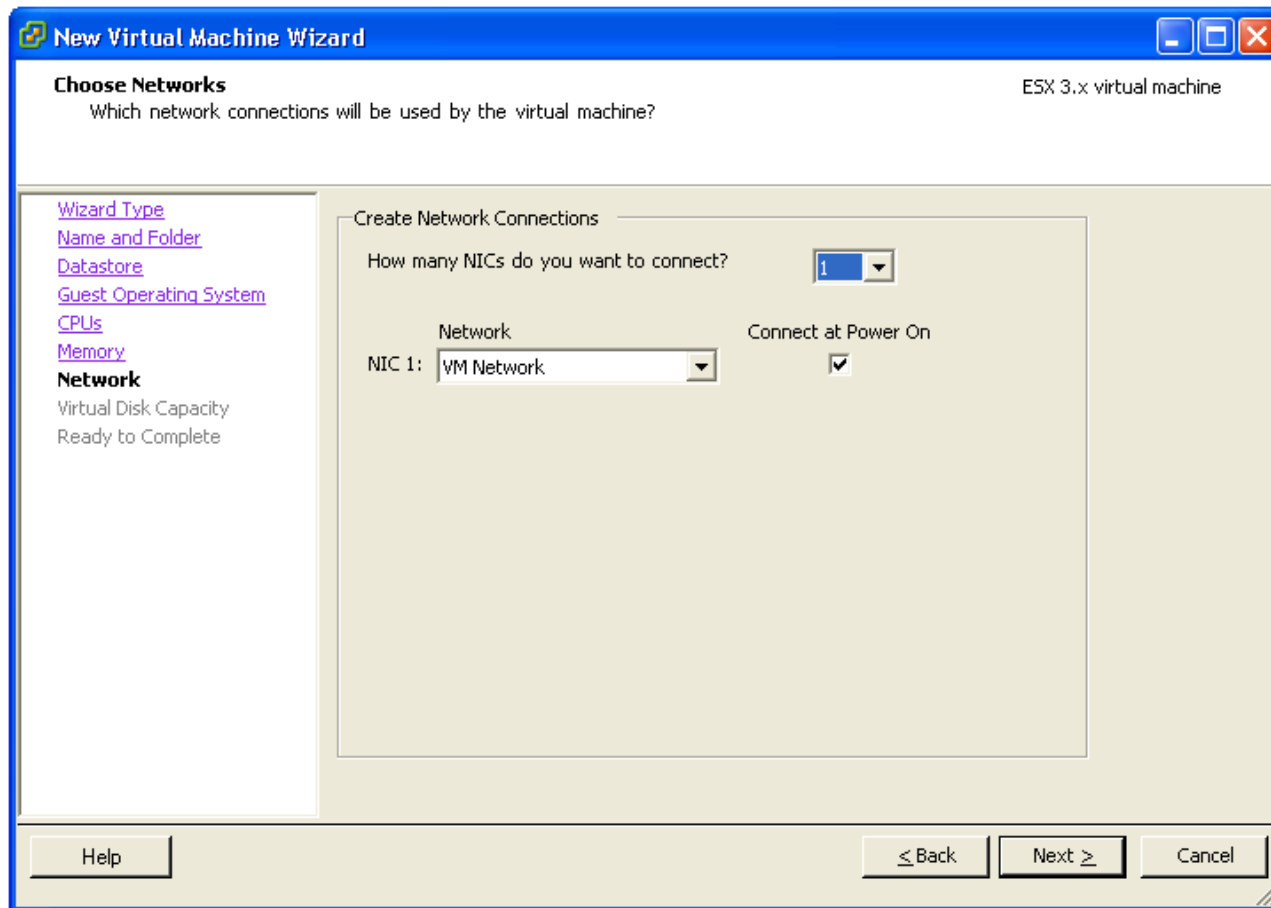
ACS 5.0 Virtual Machine Configuration

- Step 10: Configure Memory for this virtual machine as at least 2084MB RAM as shown below and then give **Next** (4GB is recommended for better performance)



ACS 5.0 Virtual Machine Configuration

- Step 11: Do not change the default option for "Create Network Connection". Click **Next**.



ACS 5.0 Virtual Machine Configuration

- Step 12: In the virtual disk capacity window, select **Disk Size** as **60 GB** and **Next**.

The screenshot shows the 'New Virtual Machine Wizard' window with the title bar 'New Virtual Machine Wizard'. The main window has a blue header bar with the title and standard window controls. Below the header, the title 'Define Virtual Disk Capacity' is displayed, followed by the question 'What size do you want this virtual disk to be?'. In the top right corner, it says 'ESX 3.x virtual machine'. On the left side, there is a list of wizard steps: 'Wizard Type', 'Name and Folder', 'Datastore', 'Guest Operating System', 'CPUs', 'Memory', 'Network', and 'Virtual Disk Capacity' (which is highlighted). Below 'Virtual Disk Capacity' is the text 'Ready to Complete'. The main area of the wizard is a light beige color. It contains the instruction 'Set the maximum size for the virtual disk.' followed by three input fields: 'Datastore:' with a text box containing 'storage1', 'Available Space (GB):' with an empty text box, and 'Disk Size:' with a spinner box set to '60' and a dropdown menu set to 'GB'. At the bottom of the window, there are three buttons: 'Help', '< Back', and 'Next >', and a 'Cancel' button on the far right.

New Virtual Machine Wizard

Define Virtual Disk Capacity ESX 3.x virtual machine

What size do you want this virtual disk to be?

[Wizard Type](#)
[Name and Folder](#)
[Datastore](#)
[Guest Operating System](#)
[CPUs](#)
[Memory](#)
[Network](#)
Virtual Disk Capacity
Ready to Complete

Set the maximum size for the virtual disk.

Datastore: storage1

Available Space (GB):

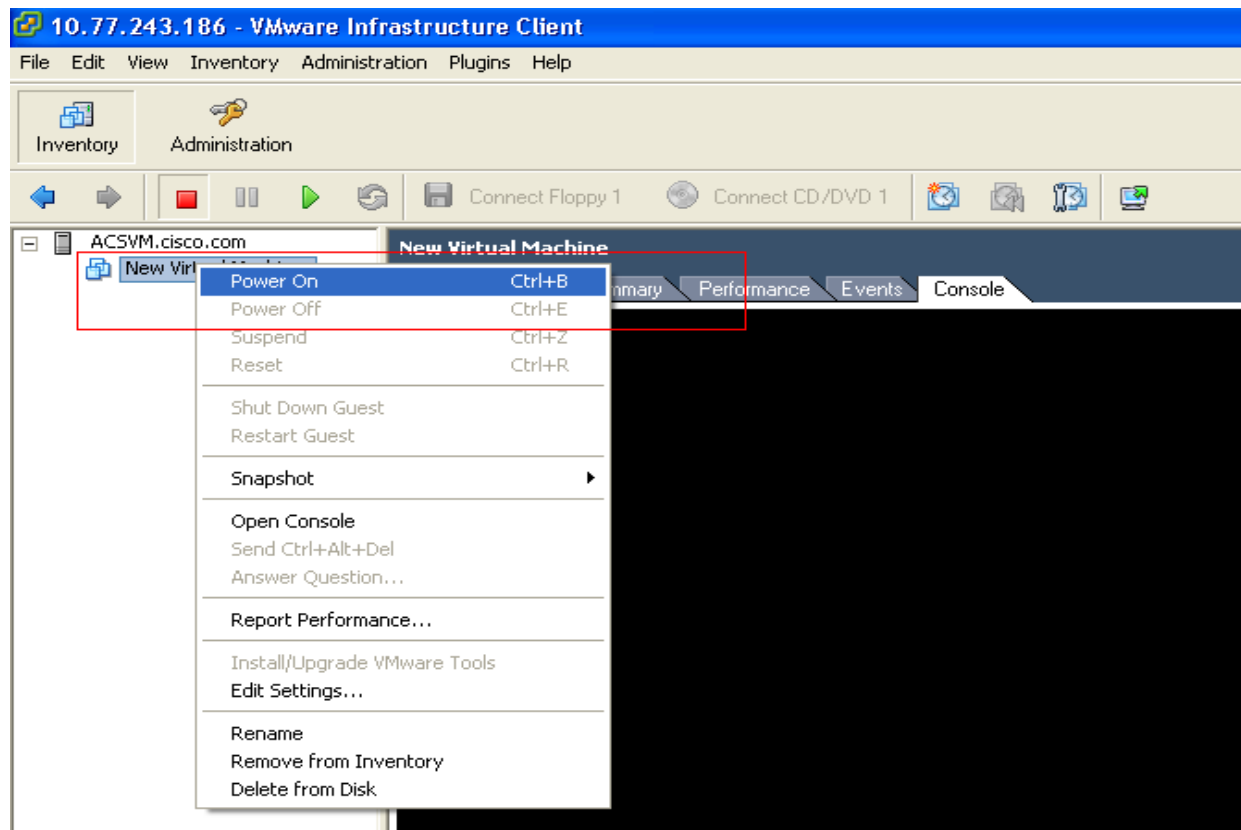
Disk Size: 60 GB

Help < Back Next > Cancel

ACS 5.0 Virtual Machine Configuration

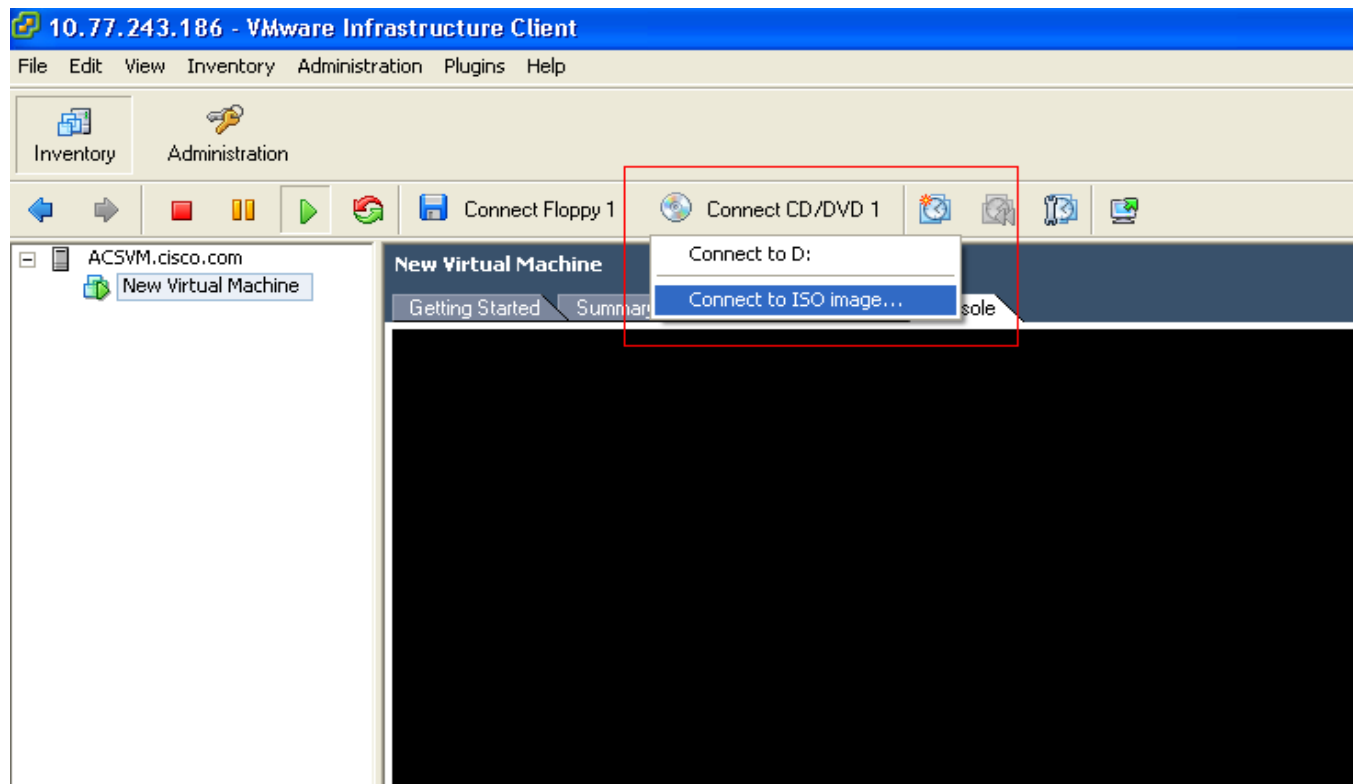
Install ACS 5.0 on Virtual Machine

- Step 1: Right Click on “New Virtual Machine” and do **Power On**



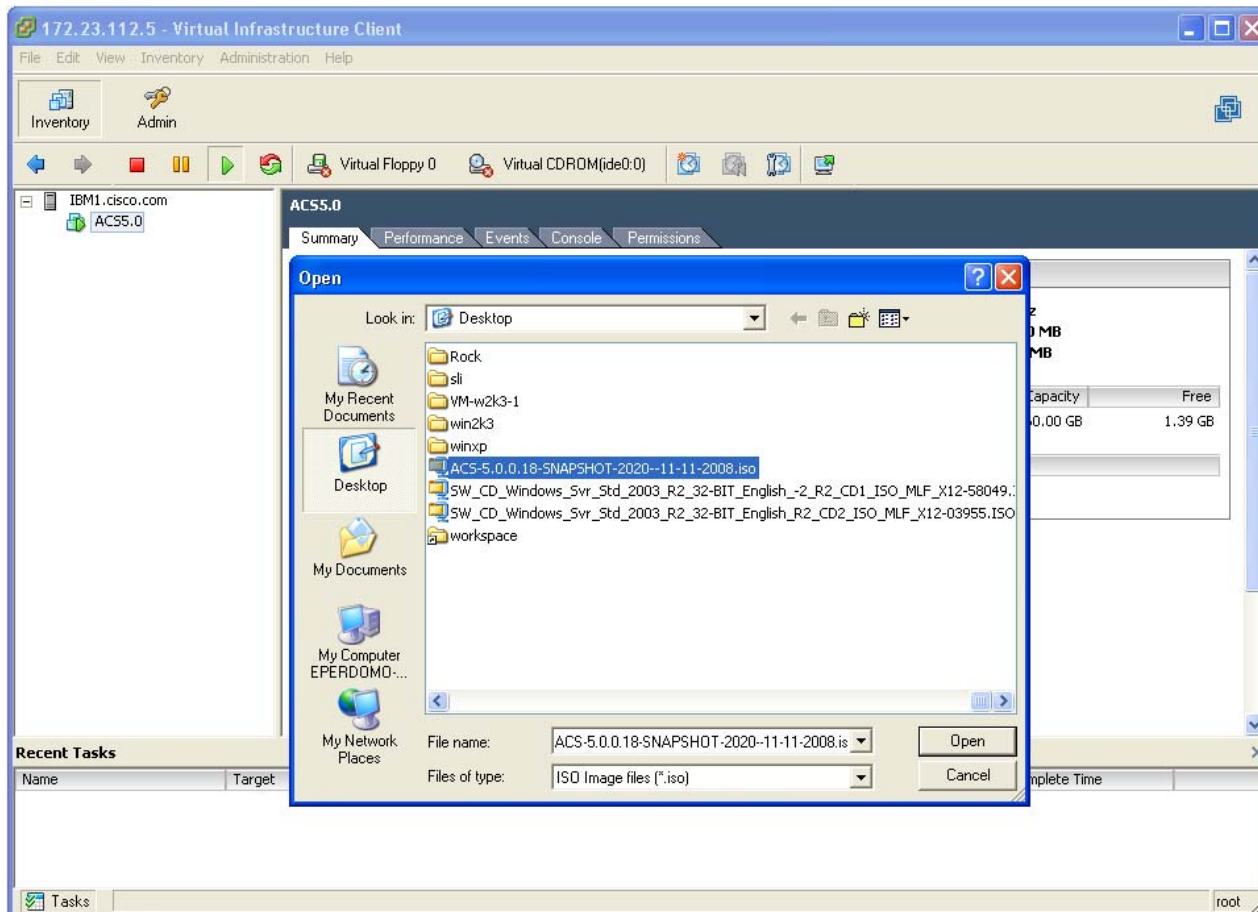
ACS 5.0 Virtual Machine Configuration

- Step 2: Store the ACS 5.0 recovery ISO image, from where we are using VMWare Infrastructure Client to access the VMWare Server. Click on **Connect CD/DVD 1** and select “**Connect to ISO image**” from the list box



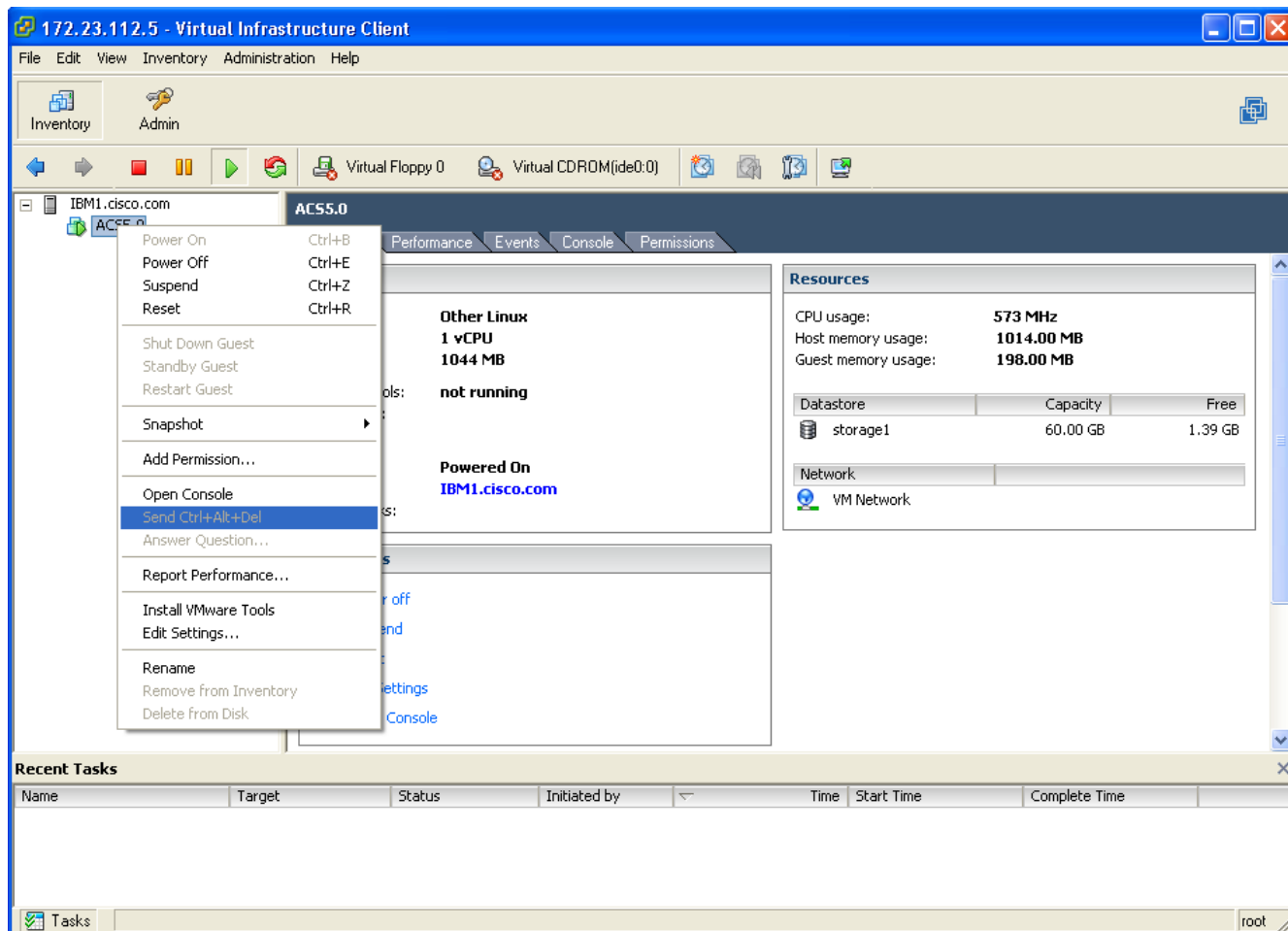
ACS 5.0 Virtual Machine Configuration

- Step 3: Select the location of an ACS 5.0 recovery ISO Image from the explorer window as shown below.



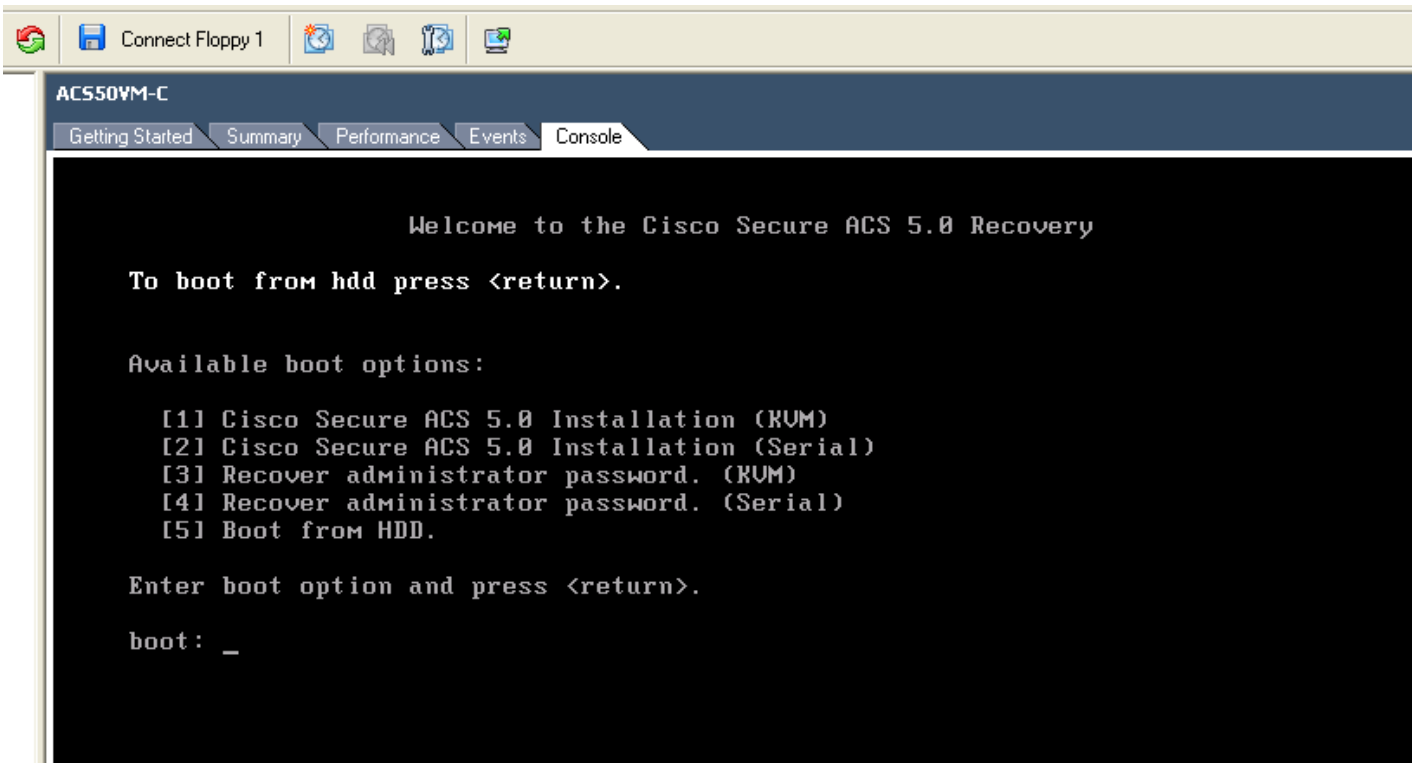
ACS 5.0 Virtual Machine Configuration

- Step 4: After selecting the ACS 5.0 recovery ISO Image, select **Ctrl+Alt+Del** by right clicking on New Virtual Machine. Now the machine will restart.



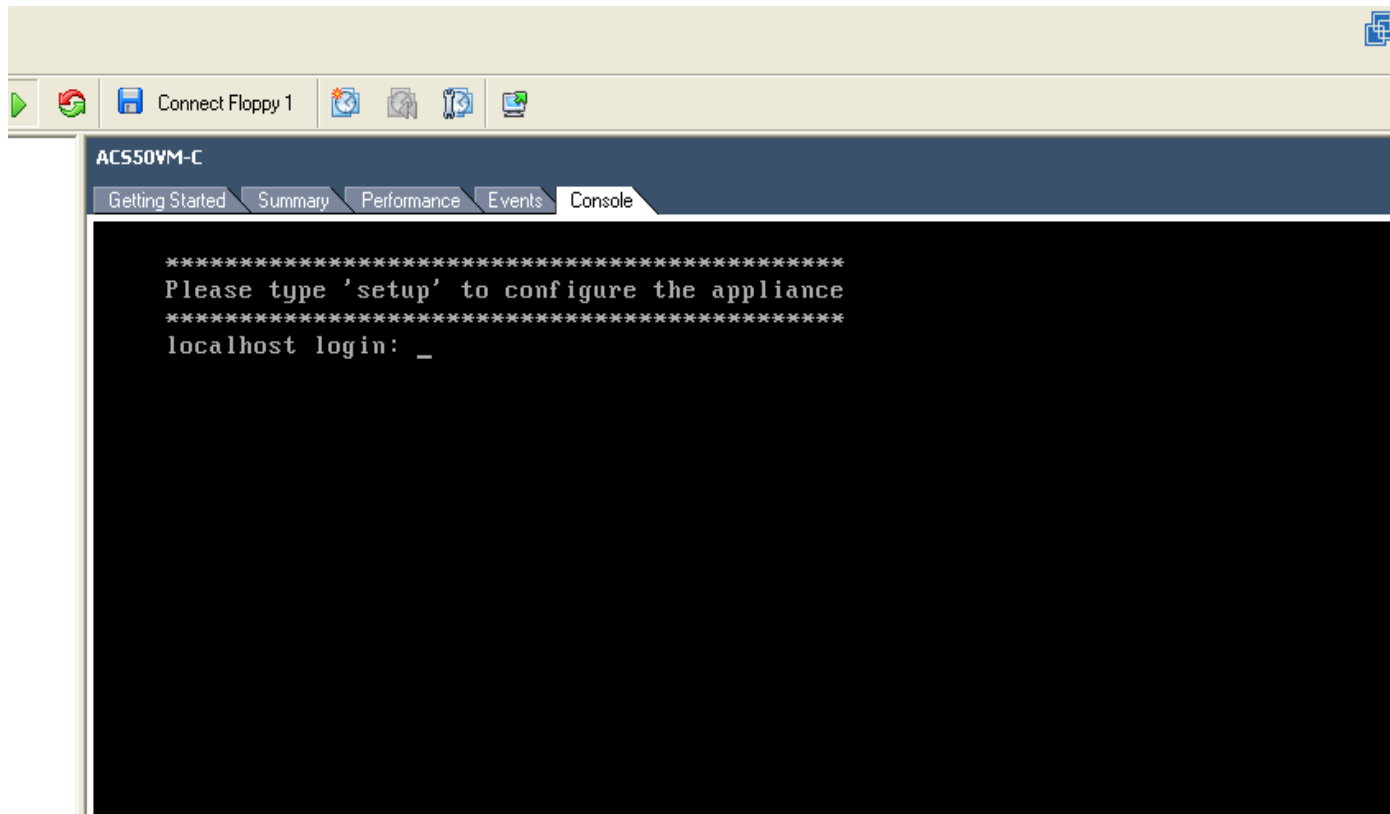
ACS 5.0 Virtual Machine Configuration

- Step 5: Now the machine will start with ACS 5.0 recovery ISO image loaded. Now the menu option will be prompted to the user to install ACS 5.0.
- Step 6: Select option [1] if running setup from the VMware console . In VMware there is serial connection



ACS 5.0 Virtual Machine Configuration

- Step 7: When the box is powered on for the first time, the user should be displayed with the following prompt irrespective of the port selected. And then type in **setup** for local host login name.

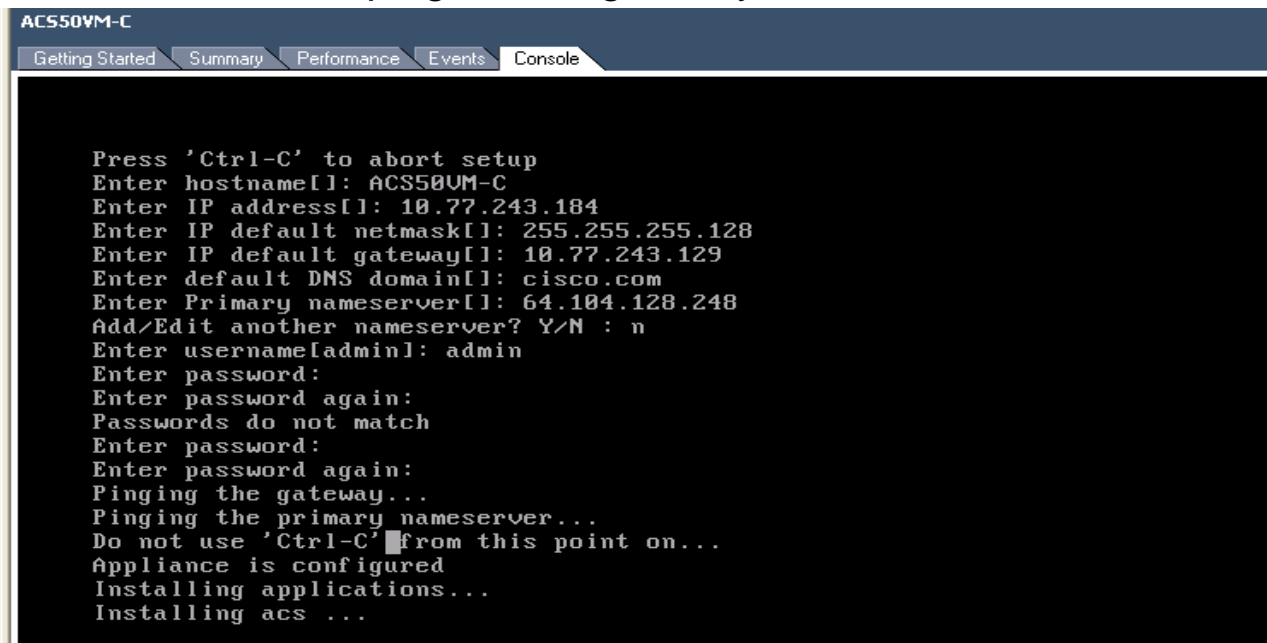


ACS 5.0 Network Configuration

- Now we have to configure host name, IP address, Netmask, Gateway, DNS domain, name server and admin user name and password of an appliance. After setup gets completed, the appliance will automatically reboot.

Note: This username is just for the Virtual Appliance. It is not an ACS user.

- Setup can be interrupted with “**Ctrl-C**” at anytime before the last setup value is entered. **Installing acs can take a few minutes.**
- After all the setup parameters are entered, Appliance will try to bring up the Ethernet interface and ping default gateway.

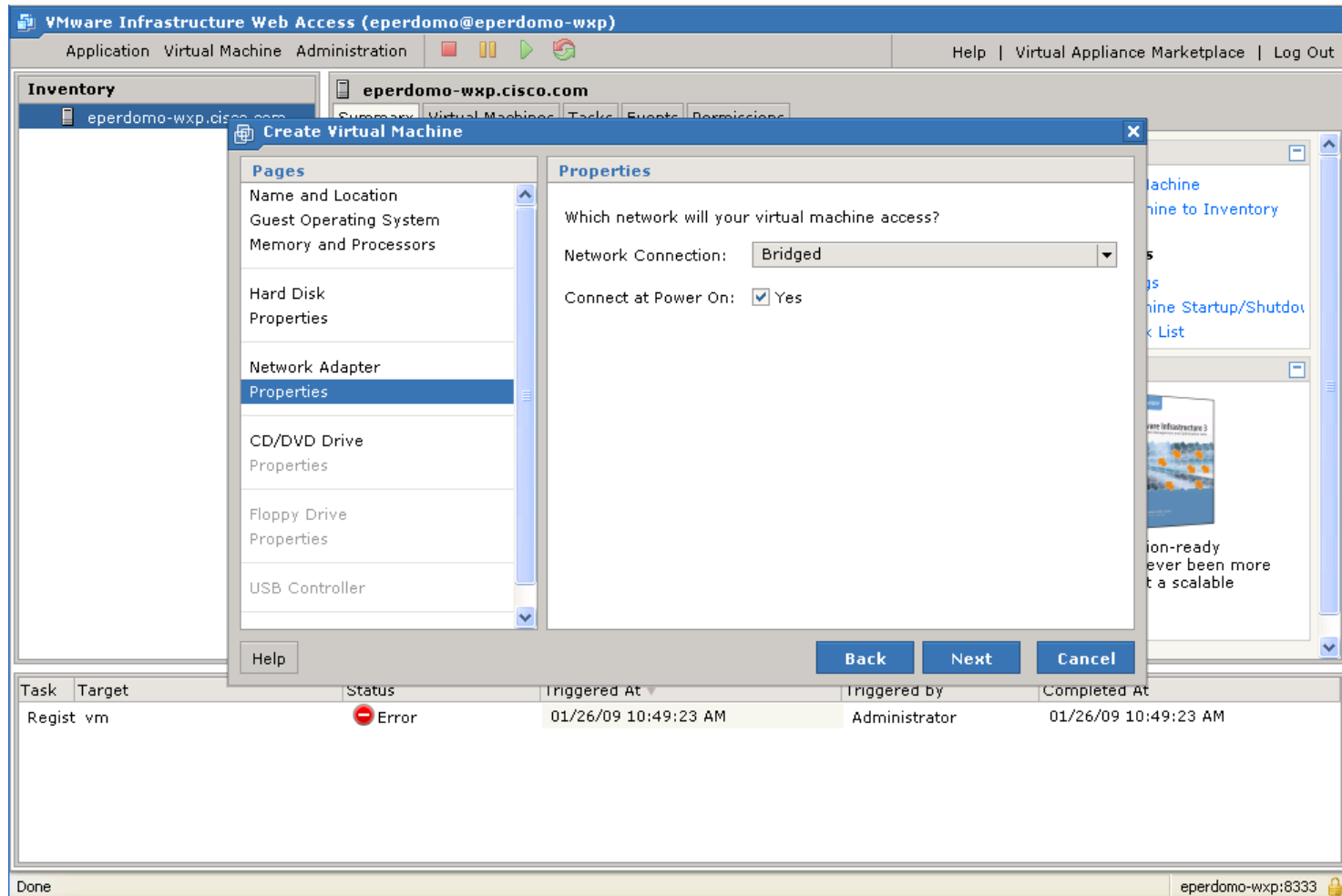


```
ACS50VM-C
Getting Started Summary Performance Events Console

Press 'Ctrl-C' to abort setup
Enter hostname[]: ACS50VM-C
Enter IP address[]: 10.77.243.184
Enter IP default netmask[]: 255.255.255.128
Enter IP default gateway[]: 10.77.243.129
Enter default DNS domain[]: cisco.com
Enter Primary nameserver[]: 64.104.128.248
Add/Edit another nameserver? Y/N : n
Enter username[admin]: admin
Enter password:
Enter password again:
Passwords do not match
Enter password:
Enter password again:
Pinging the gateway...
Pinging the primary nameserver...
Do not use 'Ctrl-C' from this point on...
Appliance is configured
Installing applications...
Installing acs ...
```

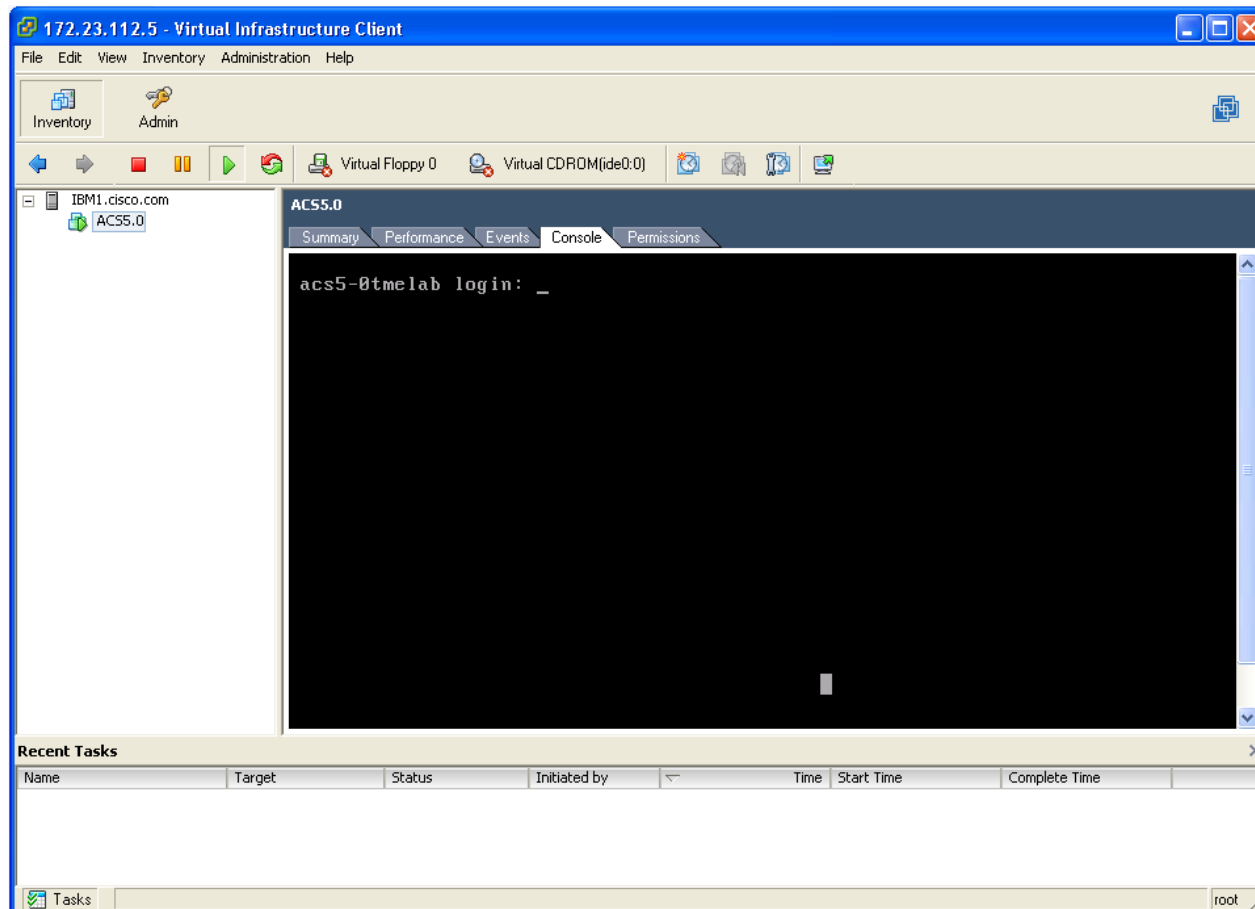
ACS 5.0 Network Configuration

- Note: The network configuration in **VMware Server 2.0** is set to “Bridged Mode” by default but we strongly recommend to check this value. Otherwise, the VM will not be accessible from external systems.



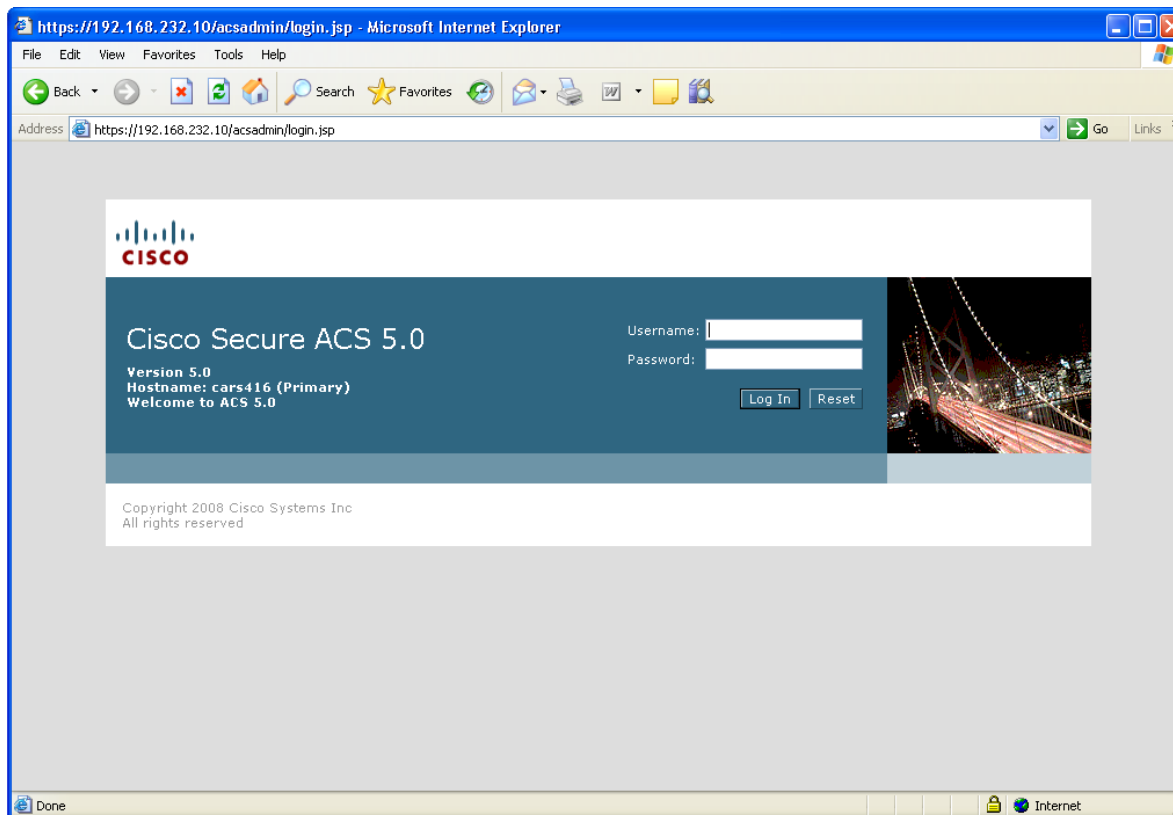
ACS 5.0 Network Configuration

- Once the box comes up, user must login with the credentials created during the setup.



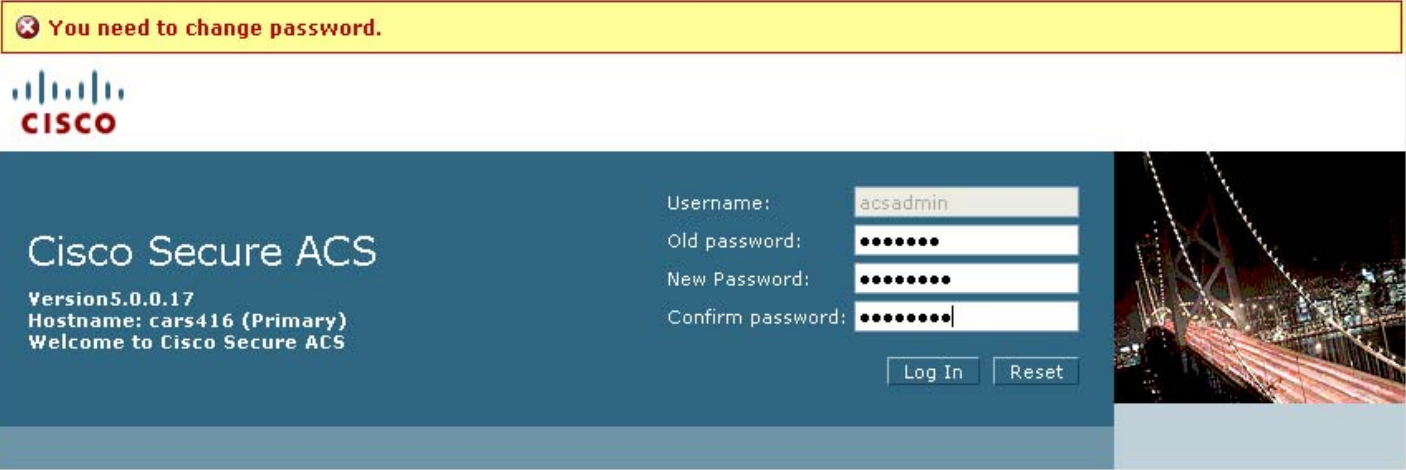
ACS 5.0 GUI Access

- Open your default browser and type this link:
<https://IPaddressAssigned/>
- For the first time, user must login with the default credentials mentioned below.
- Username: acsadmin Password: default




ACS 5.0 GUI Access

- ACS Administrator needs to change the default password



ⓧ You need to change password.

 **CISCO**

Cisco Secure ACS
Version 5.0.0.17
Hostname: cars416 (Primary)
Welcome to Cisco Secure ACS

Username:

Old password:

New Password:

Confirm password:

Copyright 2008 Cisco Systems Inc
All rights reserved

ACS 5.0 Eval License

- To request an eval license, click over the Cisco Secure ACS License Registration.



The screenshot shows a web interface for Cisco Secure ACS. At the top, there's a blue header bar. Below it, the main heading is "Welcome to Cisco Secure ACS" in bold black text. Underneath, a bold instruction reads: "Step 1 - Use the link below to obtain a valid license file from CCO using the Product Activation Key (PAK) supplied with this product". A blue underlined link, "Cisco Secure ACS License Registration", is centered below this. Further down, another bold instruction states: "Step 2 - Specify your license file below and click on the Install button to install your license". At the bottom, there is a form with the label "License File:" followed by a text input field, a "Browse..." button, and an "Install" button.

Welcome to Cisco Secure ACS

Step 1 - Use the link below to obtain a valid license file from CCO using the Product Activation Key (PAK) supplied with this product


[Cisco Secure ACS License Registration](#)

Step 2 - Specify your license file below and click on the Install button to install your license

License File:

ACS 5.0 Eval License

- Select the option for **available licenses** without PAK number.



Worldwide [change] Logged In | Profile | About Cisco

Search

Solutions

Products & Services

Ordering

Support

Training & Events

Partner Central

HOME

Product License Registration

Support

Product License Registration

1 Enter a PAK Number

2 Validate Features

3 Designate Licensee

4 Finish and Submit

[Help](#) | [Feedback](#)

Related Tools

[Dynamic Configuration Tool](#)

[TAC Service Request Tool](#)

Licenses Not Requiring a PAK

If you do not have a Product Authorization Key (PAK), please click [here for available licenses](#).

Available licenses include Evaluation/Demo Licenses, Cisco ASA 3DES/AES, PIX Firewall 3DES/AES and DES Encryption, Cisco Services for IPS, and Cisco Unified Communications Manager Version Upgrade licenses.

Product Authorization Key (PAK)

Enter the Product Authorization Key (PAK) below exactly as it appears on the label that accompanied the Cisco Information Packet.

Product Authorization Key (PAK):*

Enter one value at a time including dashes.
Example 1: 4XCD##\####
Example 2: UNTY-2X-SJ-XXXXXX
Example 3: CRS-3X-CQ-XXXXXX

ACS 5.0 Eval License

- Select Cisco Secure Access Control System Evaluation and complete the registration form

[HOME](#)

[Support](#)

[Product License Registration](#)

Product License Registration

1 Select License

2 Designate Licensee

3 Review and Submit

[Help](#) | [Feedback](#)

Related Tools

[Dynamic Configuration Tool](#)

[TAC Service Request Tool](#)

Select from the following Cisco Software Registration links:

License
Cable Broadband Troubleshooter
60-Day Demo License
Network Mgmt Products
Cisco Access Registrar 4.2
Cisco Access Registrar 4.1
Cisco Application Networking Manager - Demonstration Version
Cisco Enhanced Device Interface
CiscoWorks Network Compliance Manager
NetFlow Collector - Demonstration Version
Wireless Control System (WCS) Navigator Demo License
Wireless Control System Trial License
Wireless Control System (WCS) Spectrum Expert Demo License
Cisco Network Asset Collector (CNAC) - Version 1.2
Cisco Secure ACS View Evaluation
Cisco Server Access Connect
Cisco Secure Access Control System Evaluation
Security Products
Cisco Security MARS Demo License
Catalyst 6500/7600 WebVPN Demo License

ACS 5.0 Eval License

- Browse to the ACS 5.0 Eval license file.

Welcome to Cisco Secure ACS

Step 1 - Use the link below to obtain a valid license file from CCO using the Product Activation Key (PAK) supplied with this product

[Cisco Secure ACS License Registration](#)

Step 2 - Specify your license file below and click on the Install button to install your license

License File:

ACS 5.0 GUI Welcome

- Welcome Page will be displayed.

The screenshot displays the Cisco Secure ACS 5.0 GUI. The top navigation bar includes the Cisco logo, the text "Cisco Secure ACS EVAL(Days left: 12)", and user information: "acsadmin | acs5-0tmelab (Primary) | Help | Log Out | About".

The left sidebar, titled "My Workspace", contains a "Welcome" link and a "Task Guide" section with the following items: "Quick Start", "Initial System Setup", "Policy Setup Steps", "NAC-RADIUS Setup", and "My Account". Below this, a list of network resources is shown: "Network Resources", "Users and Identity Stores", "Policy Elements", "Access Policies", "Monitoring and Reports", and "System Administration".

The main content area, titled "My Workspace: Welcome", features a large heading "Welcome to Cisco Secure Access Control System". Below this heading, there are three main sections:

- Before You Begin**
 - Essential Reading to Get Started**
 - [ACS Policy Model & Terminology](#)
 - Getting Started**
 - Let ACS guide you through these tasks
 - [Quick Start](#)
 - [Initial System Setup](#)
 - [Policy Setup Steps](#)
- New in ACS 5**
 - [Managing Network Devices](#)
 - [Managing Users & Identities](#)
 - [Creating & Maintaining Policies](#)
- Tutorials & Other Resources**
 - [Introduction & Overview Video](#)
 - [Common Scenarios](#)

At the bottom of the main content area, there is a section for "Cisco Secure ACS Online Resources" with links to [Product & Support Information](#), [Forums](#), and [WWW.CISCO.COM](#).

Resources

- Preview demo VoDs

<http://zed.cisco.com/confluence/display/ACSRC/ACS+Resource+Center>

- ACS 5.0 home page

<http://www.cisco.com/go/acs>

- ACS 5.0 documentation

http://www.cisco.com/en/US/products/ps9911/tsd_products_support_series_home.html

Email Aliases/Newsgroups

- ACS Technical and Marketing Questions

Alias : acs-mkt@cisco.com

Newsgroup : cisco.archive.acs-mkt



CISCO