



VMware Operational Guide #1

Subject: Access virtual machines via vSphere Client, Web Access
for Virtual Machine system administrators

System/Application: VMware vSphere 4.0 Update2

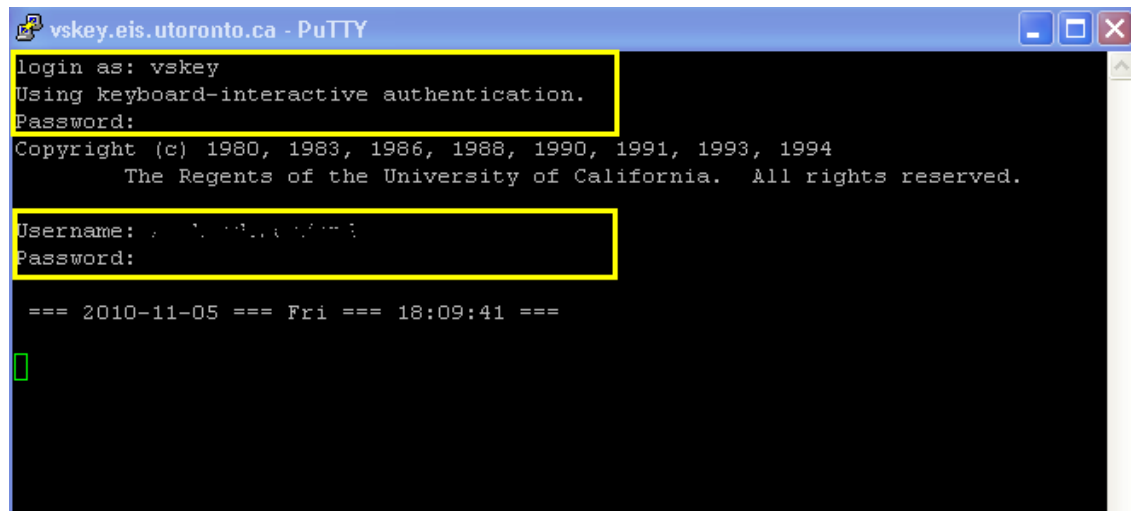
Revision History

Date of this revision: March 23, 2011	Date of next revision
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I. Getting Access to the secure network zone for VSS environment

To access vCenter, please try the following steps from your PC
(Note: You'll need an SSH client. On Windows, try PuTTY)

1. Open ssh to 'vskey.eis.utoronto.ca' on port 18022 .
2. Once ssh session is opened, it will prompt for two login steps.
 - a. Step #1
Login as: vskey
Password: vskey
 - b. Step #2
User name : vCenter Server User ID (example : john.smith)
Password : vCenter Server Password (Sent to you via email)



```
vskey.eis.utoronto.ca - PuTTY
login as: vskey
Using keyboard-interactive authentication.
Password:
Copyright (c) 1980, 1983, 1986, 1988, 1990, 1991, 1993, 1994
The Regents of the University of California. All rights reserved.
Username:
Password:
=== 2010-11-05 === Fri === 18:09:41 ===
█
```

- This vskey SSH connection stays open indefinitely.
- It can be terminated with ctrl-C, ctrl-D, exiting SSH, etc.
- Hitting "Enter" will cause another time-stamp line (helps to verify that the SSH connection is still working).
- As long as the vskey connection is open, you should be able to connect your vSphere client to "vctr1.eis.utoronto.ca"

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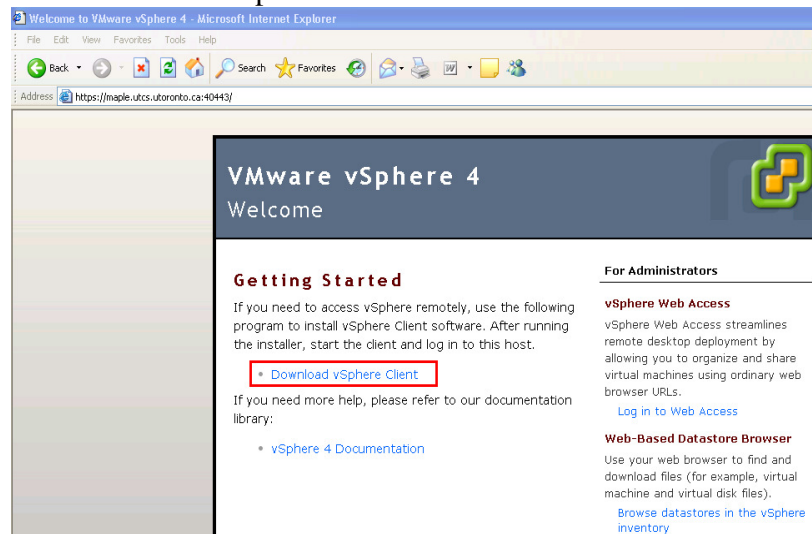
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II. How to access virtual machines via vSphere Client

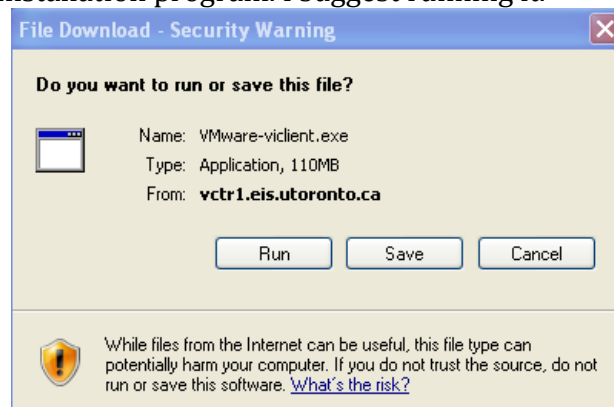
Note : For OS compatibility for vSphere client, refer to Appendix A

A. Installing vSphere client on your PC

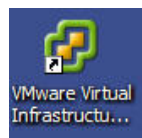
1. Open your web browser and connect to vCenter Server.
<https://vctr1.eis.utoronto.ca>
2. Click “Download vSphere Client”



3. This will prompt you to Run or Save the VMware-viclient.exe installation program. I suggest running it.



4. When installation is complete, you can run the VI Client from the desktop icon that was created.



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B. Connecting to the virtual machine through vCenter Server

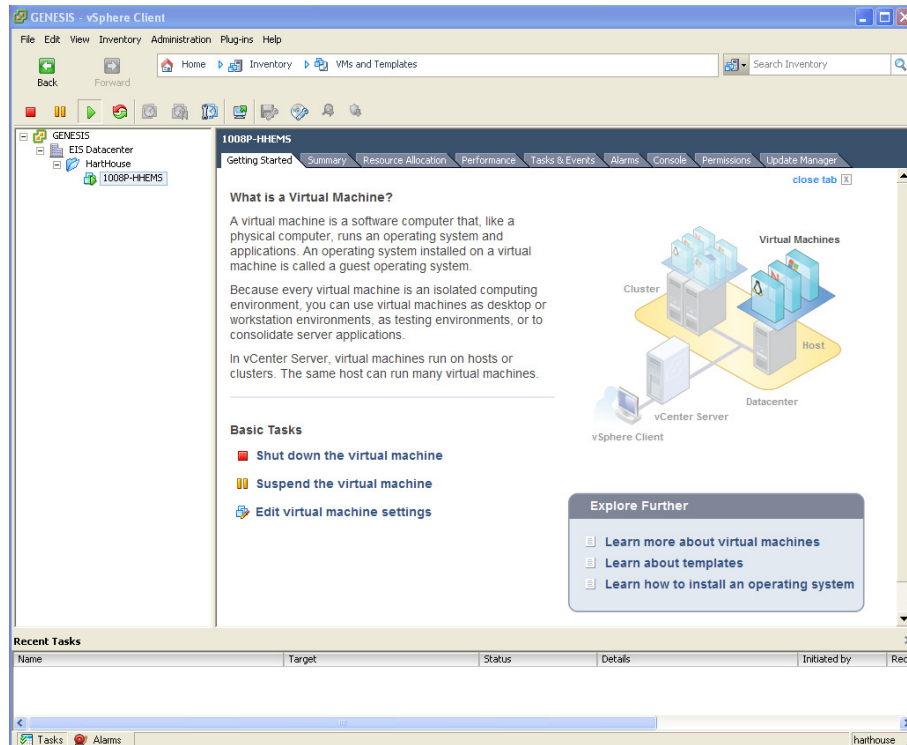
1. Run “vCenter Client”
Enter IP address / Name : “vctr1.eis.utoronto.ca”
2. Enter “User name” and “Password”
- User name : vCenter Server User ID (exmple : john.smith)
- Password : vCenter Server Password (Sent to you via email)
(Note : Do not check “Use Windows session credentials”)



3. Now you have access to the virtual machine with VM user privileges.

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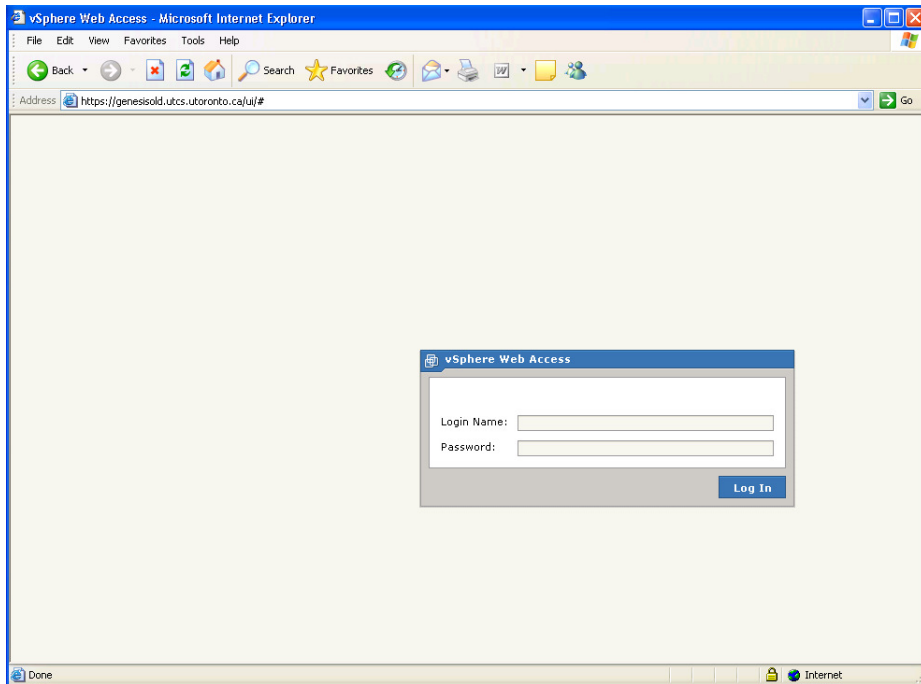
III. How to access virtual machines via vSphere Web Access

Note : For browser compatibility for vSphere web access, refer to Appendix B

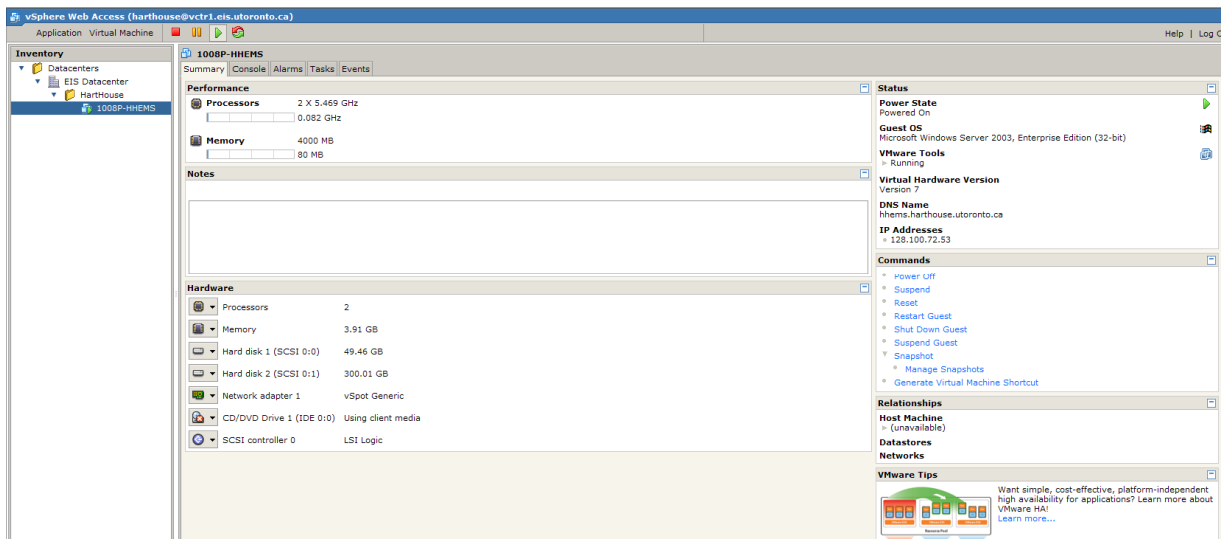
- A. Open your web browser and connect to vCenter Server.
URL : <https://vctr1.eis.utoronto.ca/ui>
- B. Enter “Login name” and “Password”

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C. Now you have access to the virtual machine with VM user privileges.



IV. How to login to virtual machine OS

For security and auditing reasons, it is recommended to use a **standard remote access tool, such as Remote Desktop Protocol (RDP) or SSH** not using the VMware virtual machine console to access virtual machines.

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APPENDIX A. Compatibility matrix for vCenter Client

Operating System Compatibility for vSphere Client, vCenter Server, vCenter Update Manager, vCenter Converter, and vCenter Orchestrator

Table 15 lists the operating systems supported for vSphere Client, vCenter Server, vCenter Guest OS Customization (OS Cust.), vCenter Update Manager, vCenter Converter, and vCenter Orchestrator. In addition, it shows the patching type supported for the VMware vCenter Update Manager: Scan (S) and Remediate (R).

Table 15. Operating System Compatibility for vSphere Client, vCenter Server, vCenter Update Manager, vCenter Converter, and vCenter Orchestrator

Vendor	Operating System	vSphere Client				vCenter Server				Guest OS Cust.		vCenter Update Manager			vCenter Converter			vCenter Orchestrator		
		2.0.x ³	2.5	4.0	4.1	2.0.x ³	2.5	4.0	4.1	4.0	4.1	Server	Patching	4.2	P2V	V2V	4.0	4.1	4.0	4.1
Microsoft	Windows XP Pro	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	SR	Yes	Yes	Yes	No	No	No	No
	Windows XP Pro 64-bit	No	No	Yes	Yes	No	No	No	Yes	Yes	Yes	No	SR	Yes	Yes	Yes	No	Yes	No	No
	Windows 2000 Server	Yes	Yes	No	No	Yes	Yes	No	No	Yes	Yes	No	SR	No	No	No ⁷	No	No	No	No
	Windows 2000 Professional	Yes	Yes	No	No	No	No	No	No	Yes	Yes	No	SR	No	No	No ⁷	No	No	No	No
	Windows 2000 Advanced Server	No	No	No	No	Yes	Yes ¹	No	No	Yes	Yes	No	No	No	No	No ⁷	No	No	No	No
	Windows Server 2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	SR	Yes	Yes	Yes	No	No	No	No
	Windows Server 2003 64-bit	No	No	Yes	Yes	No	No	Yes ⁶	Yes	Yes	Yes	Yes	SR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Windows Vista Business	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	SR	Yes	Yes	Yes	No	Yes	No	No
	Windows Vista Enterprise	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	SR	Yes	Yes	Yes	No	Yes	No	No
	Windows Vista Enterprise 64-bit	No	Yes ¹	Yes	Yes	No	No	No	No	Yes	Yes	No	SR	Yes	Yes	Yes	No	N/A	No	N/A
	Windows Vista Business 64-bit	No	Yes ¹	Yes	Yes	No	No	No	No	Yes	Yes	No	SR	Yes	Yes	Yes	No	Yes	No	No
	Windows Vista SP2 (32-bit and 64-bit)	No	Yes ¹	Yes	Yes	No	No	No	No	Yes	Yes	No	SR	Yes	Yes	Yes	No	N/A	No	N/A
	Windows 7	No	No	Yes ⁵	Yes	No	No	No	No	Yes ²	Yes	No	No	Yes	Yes	Yes	No	No	No	No

1. Supported from vCenter Server 2.5 Update 4.

2. For vCenter Server 2.5 supported from Update 6. For vCenter Server 4.0 supported from Update 1.

3. This product release has reached a limited support or non-supported status according to VMware support life cycle policy. See http://www.vmware.com/support/policies/eos_vi.html for more information.

4. Supported with vCenter Server 4.0.

5. Supported from vCenter Server 4.0 Update 1.

6. 32-bit application in compatibility mode on 64-bit platform.

7. V2V cloning supported by no reconfiguration or customization performed (resultant virtual machine might not boot).

8. Supported with vCenter 4.0 Update 2.

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Table 15. Operating System Compatibility for vSphere Client, vCenter Server, vCenter Update Manager, vCenter Converter, and vCenter Orchestrator (Continued)

Vendor	Operating System	vSphere Client				vCenter Server				Guest OS Cust.		vCenter Update Manager		vCenter Converter			vCenter Orchestrator			
		2.0.x ³	2.5	4.0	4.1	2.0.x ³	2.5	4.0	4.1	4.0	4.1	Server	Patching	4.2	P2V	V2V	4.0	4.1	4.0	4.1
Microsoft (continued)	Windows 7 64-bit	No	No	Yes ⁵	Yes	No	No	No	No	Yes ²	Yes	No	No	Yes	Yes	Yes	No	Yes	No	No
	Windows Server 2008 Enterprise	No	No	Yes	Yes	No	No	Yes	No	Yes ^{1,4}	Yes	Yes	SR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Windows Server 2008 Standard	No	No	Yes	Yes	No	No	Yes	No	Yes ^{1,4}	Yes	Yes	SR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Windows Server 2008 Datacenter	No	No	Yes	Yes	No	No	Yes	No	Yes ^{1,4}	Yes	Yes	SR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Windows Server 2008 Enterprise 64-bit	No	No	Yes	Yes	No	No	Yes	Yes	Yes ^{1,4}	Yes	Yes	SR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Windows Server 2008 Standard 64-bit	No	No	Yes	Yes	No	No	Yes	Yes	Yes ^{1,4}	Yes	Yes	SR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Windows Server 2008 Datacenter 64-bit	No	No	No	Yes	No	No	Yes	Yes	Yes ^{1,4}	Yes	Yes	SR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Windows Server 2008 R2	No	No	No	Yes	No	No	No	Yes	Yes ²	Yes	Yes	N/A	Yes	Yes	Yes	No	Yes	No	Yes
Red Hat Linux	AS 2.1	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes	No ⁷	No	No	No	No
	ES 2.1	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes	No ⁷	No	No	No	No
	Red Hat Desktop 3	No	No	No	No	No	No	No	No	Yes	Yes	No	S	No	Yes	No ⁷	No	No	No	No
	Red Hat Desktop 4	No	No	No	No	No	No	No	No	Yes	Yes	No	S	No	Yes	No ⁷	No	No	No	No
	AS 3.0, Update 5	No	No	No	No	No	No	No	No	Yes	Yes	No	S	No	Yes	No ⁷	No	No	No	No
	ES 3.0, Update 5	No	No	No	No	No	No	No	No	Yes	Yes	No	S	No	Yes	No ⁷	No	No	No	No
	AS 4.0, Update 2	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes	No ⁷	No	No	No	No
	ES 4.0, Update 2	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes	No ⁷	No	No	No	No
AS 4.5	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes	No ⁷	No	No	No	No	

1. Supported from vCenter Server 2.5 Update 4.
2. For vCenter Server 2.5 supported from Update 6. For vCenter Server 4.0 supported from Update 1.
3. This product release has reached a limited support or non-supported status according to VMware support life cycle policy. See http://www.vmware.com/support/policies/eos_v1.html for more information.
4. Supported with vCenter Server 4.0.
5. Supported from vCenter Server 4.0 Update 1.
6. 32-bit application in compatibility mode on 64-bit platform.
7. V2V cloning supported by no reconfiguration or customization performed (resultant virtual machine might not boot).
8. Supported with vCenter 4.0 Update 2.

Table 15. Operating System Compatibility for vSphere Client, vCenter Server, vCenter Update Manager, vCenter Converter, and vCenter Orchestrator (Continued)

Vendor	Operating System	vSphere Client				vCenter Server				Guest OS Cust.		vCenter Update Manager		vCenter Converter			vCenter Orchestrator			
		2.0.x ³	2.5	4.0	4.1	2.0.x ³	2.5	4.0	4.1	4.0	4.1	Server	Patching	4.2	P2V	V2V	4.0	4.1	4.0	4.1
Red Hat Linux (Continued)	RHEL 4.5 Server Platform 64-bit	No	No	No	No	No	No	No	No	No	Yes	N/A	N/A	No	Yes	No ⁷	No	N/A	No	N/A
	RHEL 4.8 Server Platform (32-bit and 64-bit)	No	No	No	No	No	No	No	No	Yes ⁸	Yes	N/A	N/A	No	Yes	No ⁷	No	N/A	No	N/A
	RHEL 5 Server Platform (32-bit and 64-bit)	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes	No ⁷	No	No	No	No
	RHEL 5 Desktop Platform	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes	No ⁷	No	N/A	No	N/A
	RHEL 5.3 Server Platform (32-bit and 64-bit)	No	No	No	No	No	No	No	No	No	Yes	N/A	N/A	No	Yes	No ⁷	No	No	No	No
	RHEL 5.4 Server Platform (32-bit and 64-bit)	No	No	No	No	No	No	No	No	No	Yes	N/A	N/A	No	Yes	No ⁷	No	No	No	No
	RHEL 5.5 Server Platform (32-bit and 64-bit)	No	No	No	No	No	No	No	No	Yes ⁸	No	N/A	N/A	No	Yes	No ⁷	No	No	No	No

1. Supported from vCenter Server 2.5 Update 4.
2. For vCenter Server 2.5 supported from Update 6. For vCenter Server 4.0 supported from Update 1.
3. This product release has reached a limited support or non-supported status according to VMware support life cycle policy. See http://www.vmware.com/support/policies/eos_v1.html for more information.
4. Supported with vCenter Server 4.0.
5. Supported from vCenter Server 4.0 Update 1.
6. 32-bit application in compatibility mode on 64-bit platform.
7. V2V cloning supported by no reconfiguration or customization performed (resultant virtual machine might not boot).
8. Supported with vCenter 4.0 Update 2.

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APPENDIX B. Compatibility matrix for vCenter Server Web Access

Browser Compatibility for vCenter Server Web Access

Table 14 lists the browsers supported for vCenter Server and Web Access.

Table 14. Browser Compatibility for vCenter Server and Web Access

Operating System	Browser	Web Access		
		2.0.x	2.5	4.0
Linux	Mozilla 1.x	YES	No	No
Windows	Internet Explorer 6.0	YES	YES	YES
	Internet Explorer 7.0	No	No	YES
	Netscape Navigator 7.0.x	YES	No	No
Linux/Windows	Firefox 1.0.7+	YES	YES	No
	Firefox 1.5+	YES	YES	No
	Firefox 2.0.x	YES	YES	YES
	Firefox 3.0.x	No	No	YES

APPENDIX C. Useful resources

1. vSphere Basic System Administration Guide
http://www.vmware.com/pdf/vsphere4/r40/vsp_40_admin_guide.pdf
2. vSphere Web Access Administrator's Guide
http://www.vmware.com/pdf/vsphere4/r40/vsp_40_web_access.pdf
3. vSphere Compatibility Matrixes
http://www.vmware.com/pdf/vsphere4/r40/vsp_compatibility_matrix.pdf
4. Guest Operating System Installation Guide
www.vmware.com/pdf/GuestOS_guide.pdf

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