VMware View 5 Home Lab setup Guide

For this project you'll need a few things before you get started...

(I was able to use my MSDNAA subscription for all the microsoft software)
- A copy of Windows Server 2008 r2 (to be installed on multiple VM's)
- A copy of Microsoft SQL 2008 r2 standard and Windows 7 or XP.
- An account on VMware.com (in order to download/buy View software)
- You'll also need a copy of ESXI 5.0, and a very capable 64 bit home PC. (some hard drive space, and at least 4gb of ram)

Friendly reminder (after all your VM's are created, give them a hostname that you'll remember).

1. Download and Install VMware workstation on your home pc. This software is similar to Virtual box, and allows us to create and manage virtual machines that we will use for some servers.

2. Create a virtual machine and boot from your copy of ESXi 5.0. This will be the server that we run all our virtual view servers on. (be sure to allocate as many resources as you can to the ESXi virtual server, for it will be hosting several other servers.)

3. Download and install VMware vSphere client for your desktop, and login to your ESXi 5.0 server using the credentials you created during installation.

4. Using the vSphere client, you can create virtual machines and networks. Very similar to what we do in class. You'll need three virtual servers all together, each one running a copy of Windows server 2008 r2.

5. The first of these three machines will need to serve as your Active Directory Domain Controller. Hosting your own domain and dns server. You can achieve this through the "Add Roles" feature in the OS. Just locate the AD DC role, name your domain, and install.

6. The second machine we will install vCenter Server 5.0, View composer, and Microsoft SQL. The vCenter server software acts similar to what we see in vSphere, we will use this to create and store a virtual machine template that acts as our remote accessible desktop environment.

7. First order of business is connecting this machine to the active directory domain, see that your network settings are in order, and change the name of the domain in your computer settings to whatever you named your domain earlier, it will ask you for those credentials and join the server to the domain.

8. After vCenter Server is installed, we can install Microsoft SQL, and set up the View 5 Database inside the SQL server. You'll also need to set up an OBDC connection for View 5 on the server. Once those are done you can install VMware View Composer 2.7.0.

9. The third and final machine will act as our VMware View connection server. Join the server to your domain, and give it a good Hostname (ViewConnect). Download and install the View connection Server software. You'll then be able to access your View Administrator console

through any browser on your network by simply typing this into your url bar, <https://your view connection server IP address/admin>.

10. After View Connection Server is installed, we need to create some users that will be able to connect to it. Login to your Active Directory and click /Start/Programs/Administrative tools/ Active directory users and computers. Right click on your domain, and add an organizational unit. Name the unit, and create a new group inside it. Double click on your group and hit Add members to add a couple of admins to your group. Login to your View Administrator console, hit the administrators tab, and "Add Users" Do a quick search for the group you created, highlight it and hit next, follow the rest of the screens.

11. Login to your vCenter Server, and create a virtual machine that you'll install your copy of Windows 7/XP on. Ensure the machine is joined to your domain, VMware tools is installed, and check the box for "Time sync" in VMware tools. All that's left on this machine is a short install of VMware View 5 Desktop Agent and we'll be ready to setup the desktop pool.

12. Power off your Windows 7/XP VM, and take a snapshot of it. Login to the View Admin portal through your browser, and click on Pools. Add a new pool, name it, edit the settings to your liking, and browse for your snapshot. Head back to the Pools tab and click the entitlements button. This is where you can entitle the users we created earlier.

13. You're done! You can attempt to login through your View 5 ipad or desktop client directly to your View 5 Connection server, using its hostname or IP address, and find the desktop pool you'd like to connect to.

VMWare View Open Client

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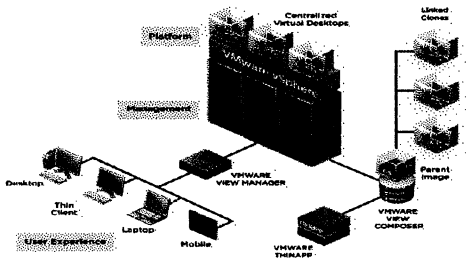
What is View Open Client?

VMware View Open Client lets you connect from a Linux or Mac OS X desktop to remote Windows desktops managed by VMware View.

It is available under the GNU Lesser General Public License version 2.1 (LGPL v 2.1).

Visual Picture of VMWare View



Development Environments

Linux

Most dependencies should be available as binary packages from your distribution, either on your install media or from your package repository. On Ubuntu, you can install the **build-essentials** meta-package to get most of what you need.

Mac OS X

You need Mac OS X 10.5 above, with the developer tools installed.

Compatibility

This release is compatible with VMware Virtual Desktop Manager (VDM) 2.0, 2.1, and VMware View Manager 3.0, 3.1, 4.0, and 4.5.

Library Requirements

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Package	Min. Version	Ubuntu Package	MacPorts Package
Boost	1.34.1	libboost-dev	boost
Gtk+	2.4.0	libgtk2.0-dev	N/A
LibXML	2.6.0	libxml2-dev	N/A
OpenSSL	0.9.8	libssl-dev	N/A
cURL	7.16.0	libcurl4-openssl-dev	N/A
icu	3.8	libicu-dev	icu
intltool	0.21	intltool	intltool

Included Features

- Ability to create a secure tunnel using SSL
- Support for two factor authentication with RSA SecurID
- Novell SLETC Add-On RPM package
- Full command line interface

Issues

List of found issues:

http://code.google.com/p/vmware-view-open-client/issues/list

Required Components:

- VMware vSphere for Desktops (includes ESX/ESXi virtualization)
- VMware vCenter Server (management of virtualization environment)
- View Composer (advanced View management, with automation and cloning)
- View Manager (administration of the View Environment)
- View Client (communication between view and the desktop OS)

Not Included Features

- USB redirection

- Multiple desktop sessions

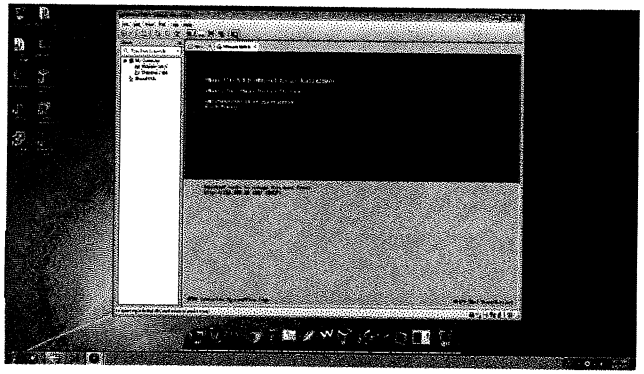
- Multimedia redirection

Cons

No commercial support from VMware, Inc. shall be provided for open source.

However, thin users and customers of VMware View interested in receiving commercial support for their deployments should only use VMware Ready Certified Thin Clients.

- Home Lab Demo Process

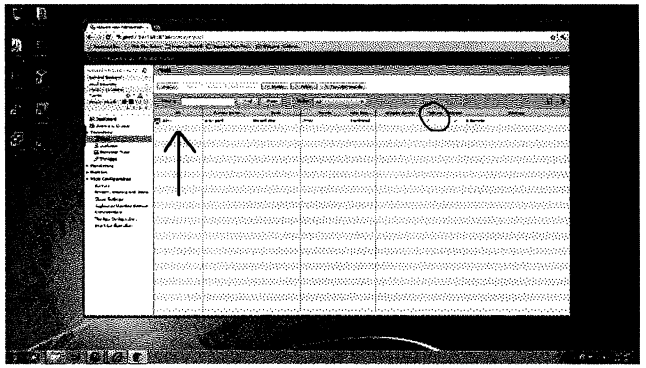


- Set up ESXi 5.0 server on VMware workstation

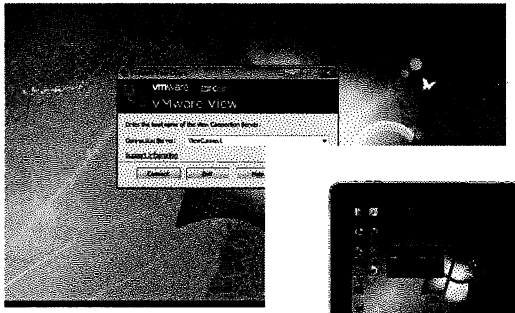
Using VMware vSphere client, I created 3 virtual machines, all running Windows Server 2008 r2. One is running The active directory domain controller, the other is the vCenter server and SQL database, and the third is the View Connection Server.

Once all three are up and running, you can login to the View administrator from any browser on the network, using the ip address of the connection server, and the username.

Using the View administrator, you can add Users/Admins with different privileges, and create a pool of desktop images that they are entitled to. In this case, I created a pool with a windows 7 image and entitled a user and administrator to it.



Then, using the view desktop client, or the view client for the ipad, you can connect to one of the active desktops in the pool!



Trackpad and Navigation Keys