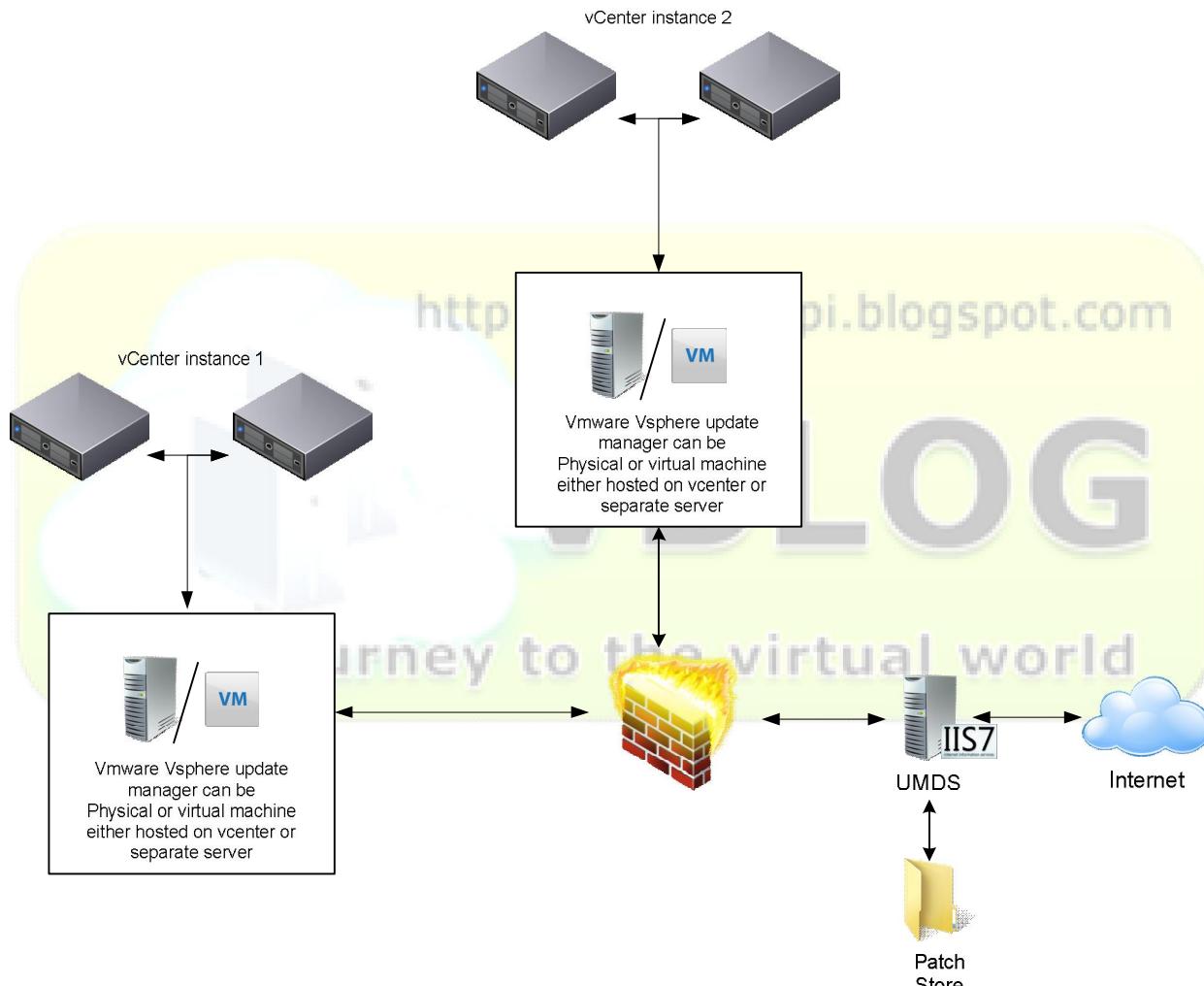


Installing and managing UMDS

Update manager download services.

UMDS downloads patch metadata, binaries, updates repository from internet where VMware update manager does not have access to internet. As below picture I have 2 VMware update manager instances and they don't have access to internet, and my UMDS server configured with IIS server is behind firewall connected to internet and Update managers download patches/updates over HTTP. (This demo is from home lab if you want try it in your environment at try it at your risk)



here I get benefit of less consumed internet bandwidth, repository downloaded once only, very helpful in slow internet speed. Easy to manage patches/updates, remove old patches from patch store.

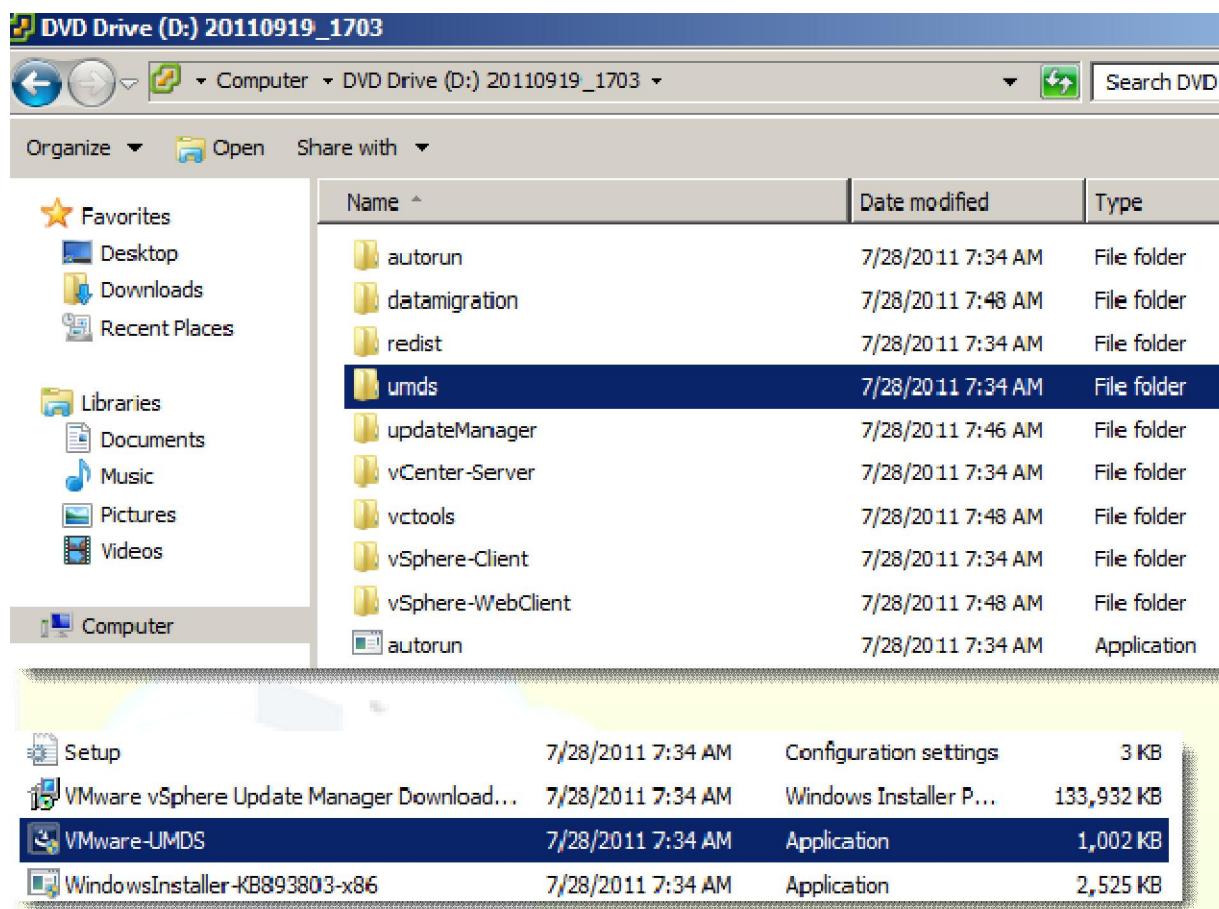
Prerequisite for UMDS

- Windows Server 2008 server.
- vCenter server 5.0 Media
- Internet connection

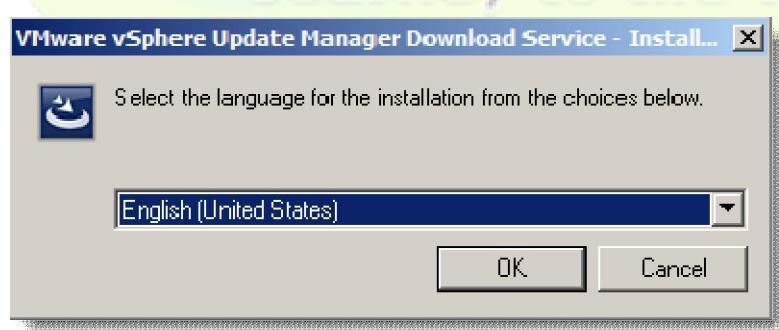


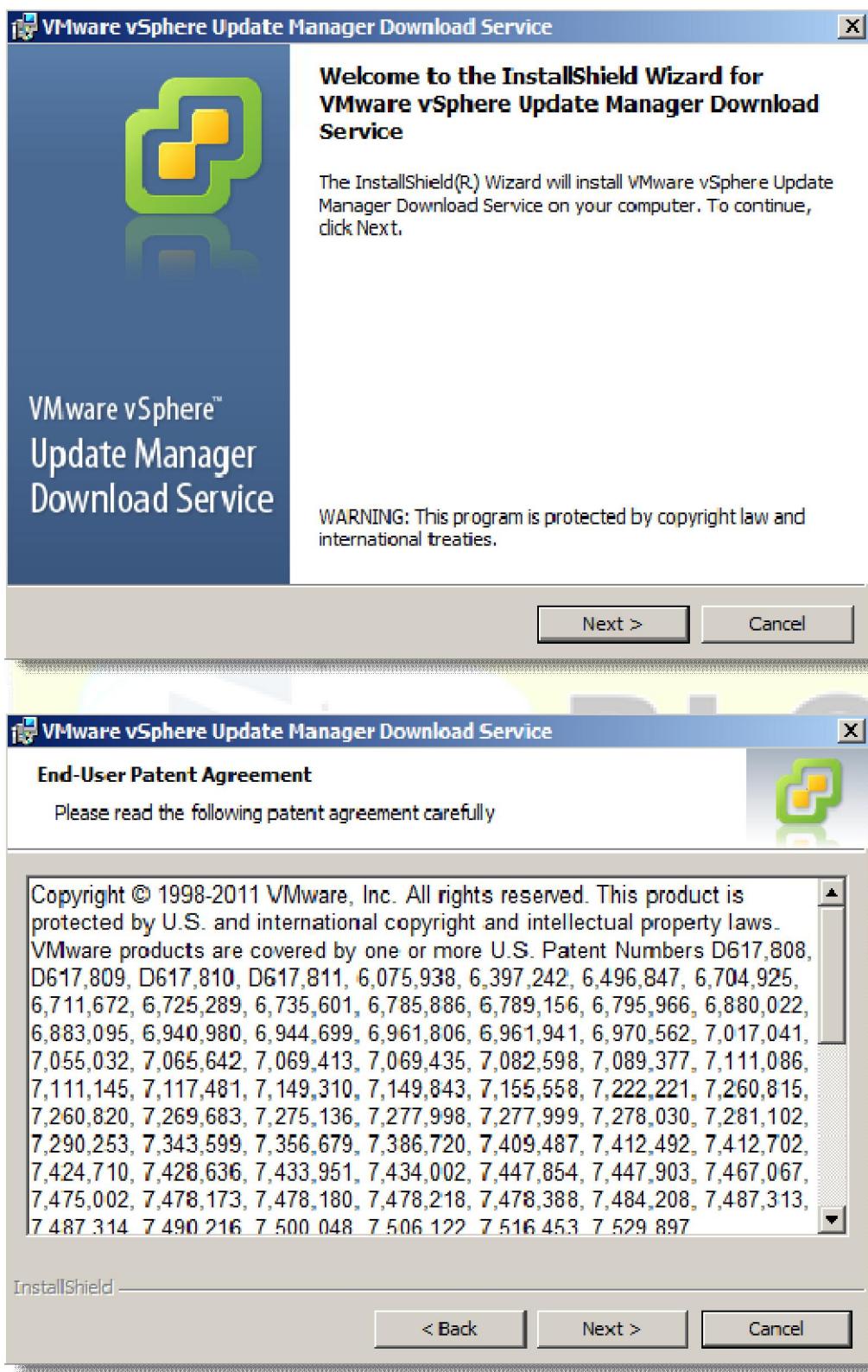
Windows Server 2008
Active Directory
Configuration

UMDS is available on vCenter media.

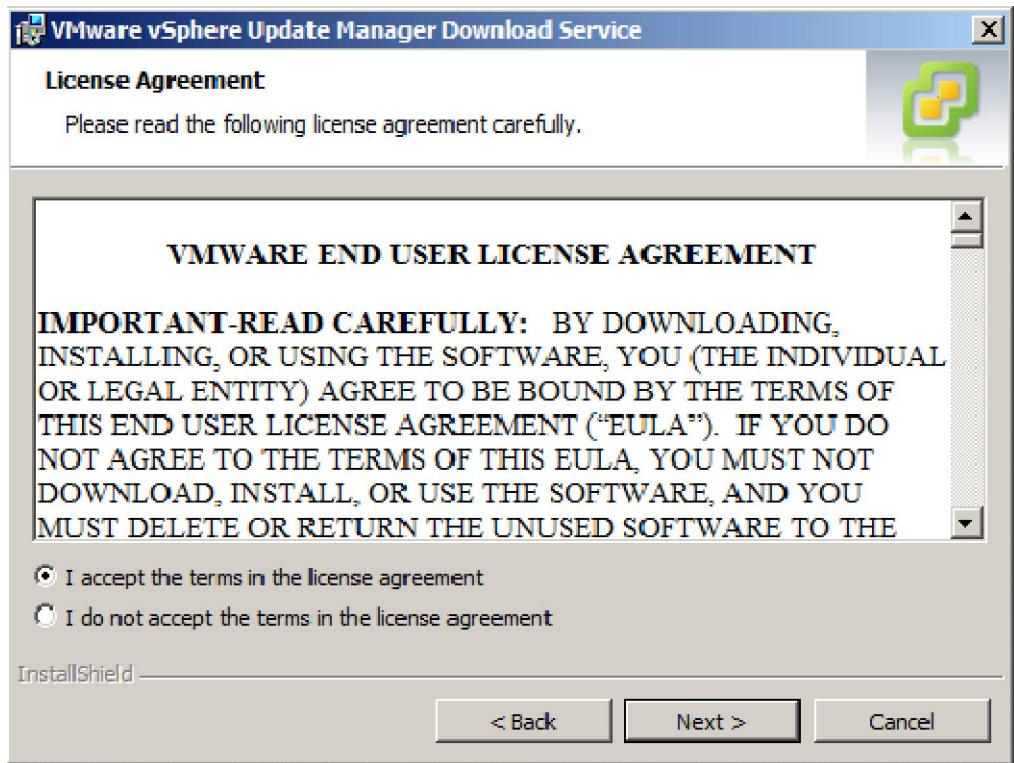


Execute VMware-UMDS.exe from cdrom:\umds folder.





Windows Server 2008
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Configuration



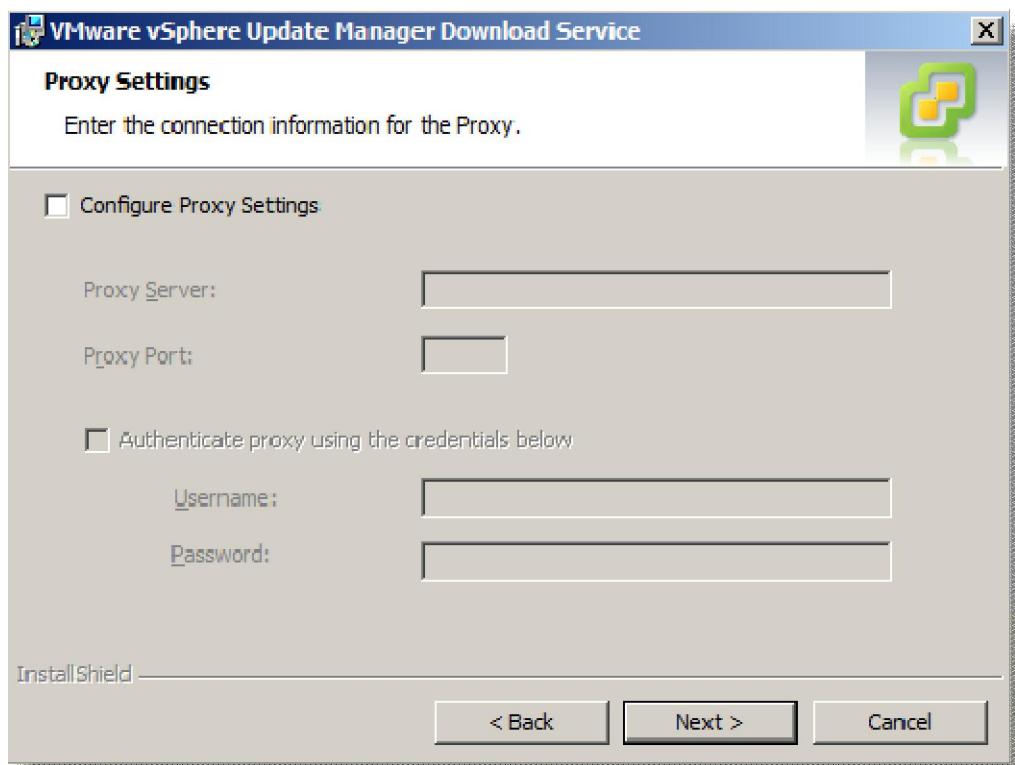
Here I am using Microsoft SQL Server 2008 R2 Express edition instance (not suggested for production, configure proper compatible SQL server, Create database and in the last configure DSN on UMDS so you can provide it while installation of UMDS)





Next setting is for internet, how will be the internet connectivity to UMDS server, I have direct connectivity to internet on UMDS server, keeping as it is clicking next.

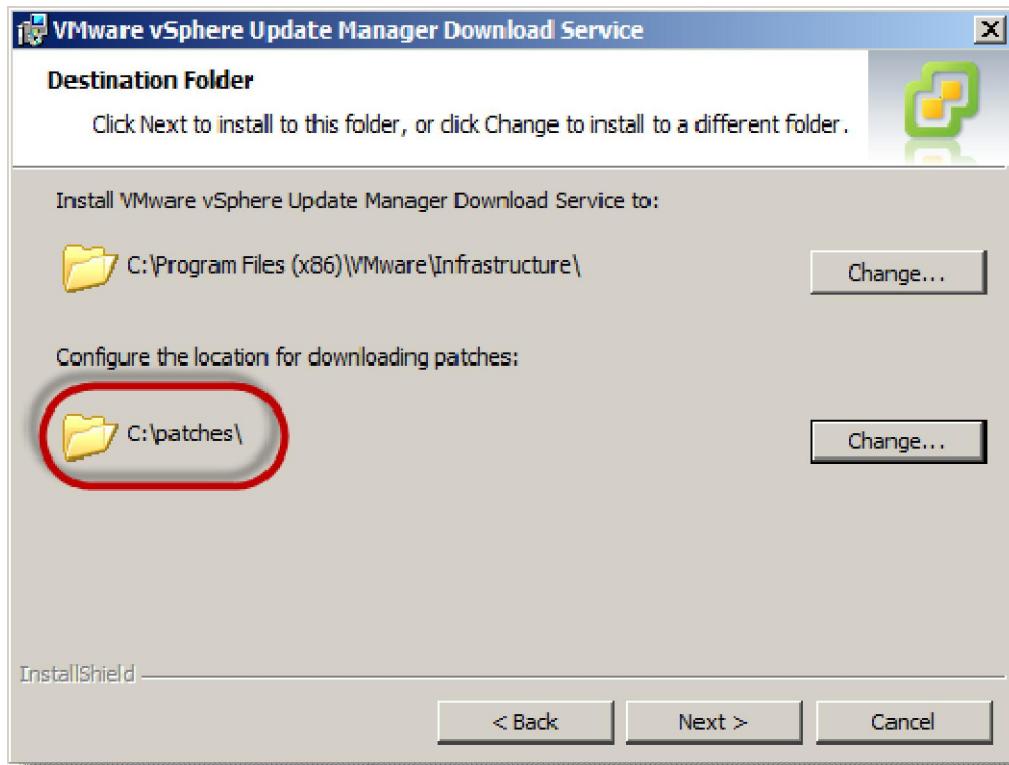




Next screen leads you, where you want to keep installed files and downloaded Patches. I will suggest here to select another HDD or drive which has free space 120 GB. (I am keeping it in C:\patches folder). This location can be changed later using UMDS commandline.



Windows Server 2008
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Configuration



If the downloading patches location does not have 120 gb free it will give below warning message, but still you can proceed with installation.



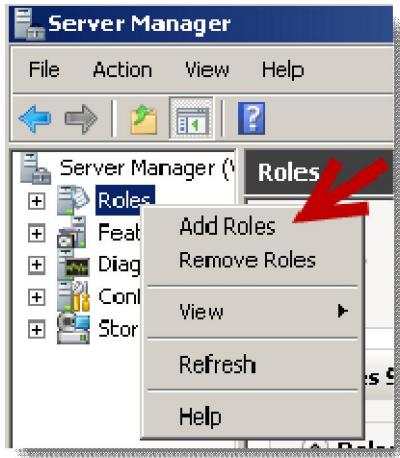
Windows Server 2008
Active Directory
Configuration



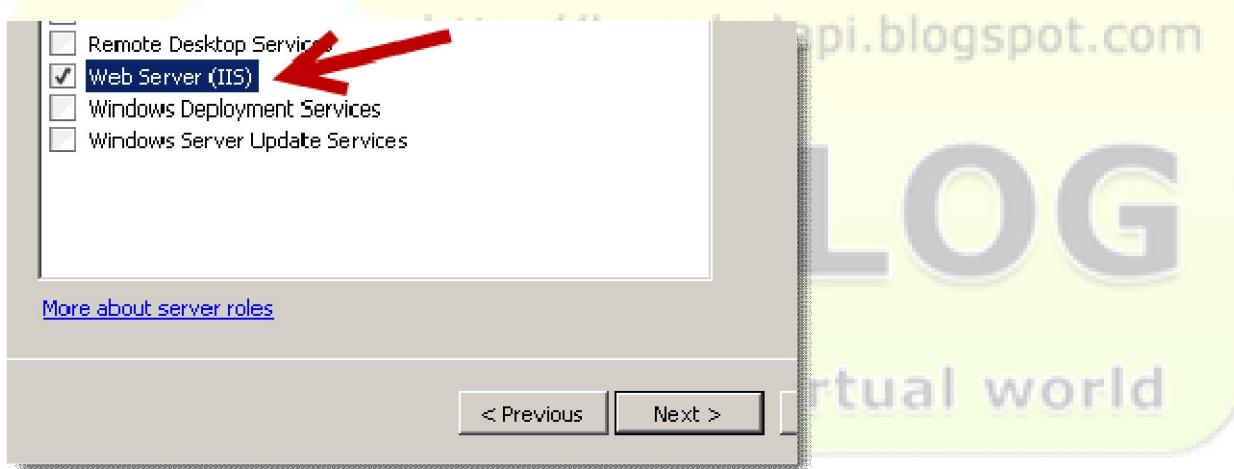
Installation has been completed. It's time to configure your UMDS server.



We are installing IIS Server here, and all other VMware update managers will use http link to download patches from UMDS server. Open server manager on UMDS server, right click roles and click add roles

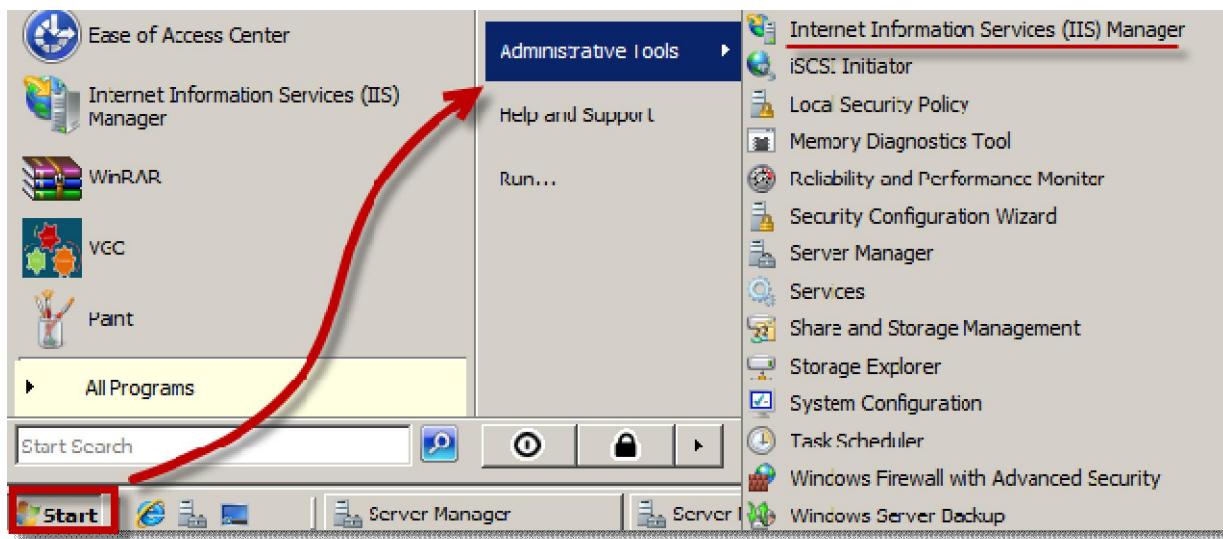


Select web server (IIS) and press next

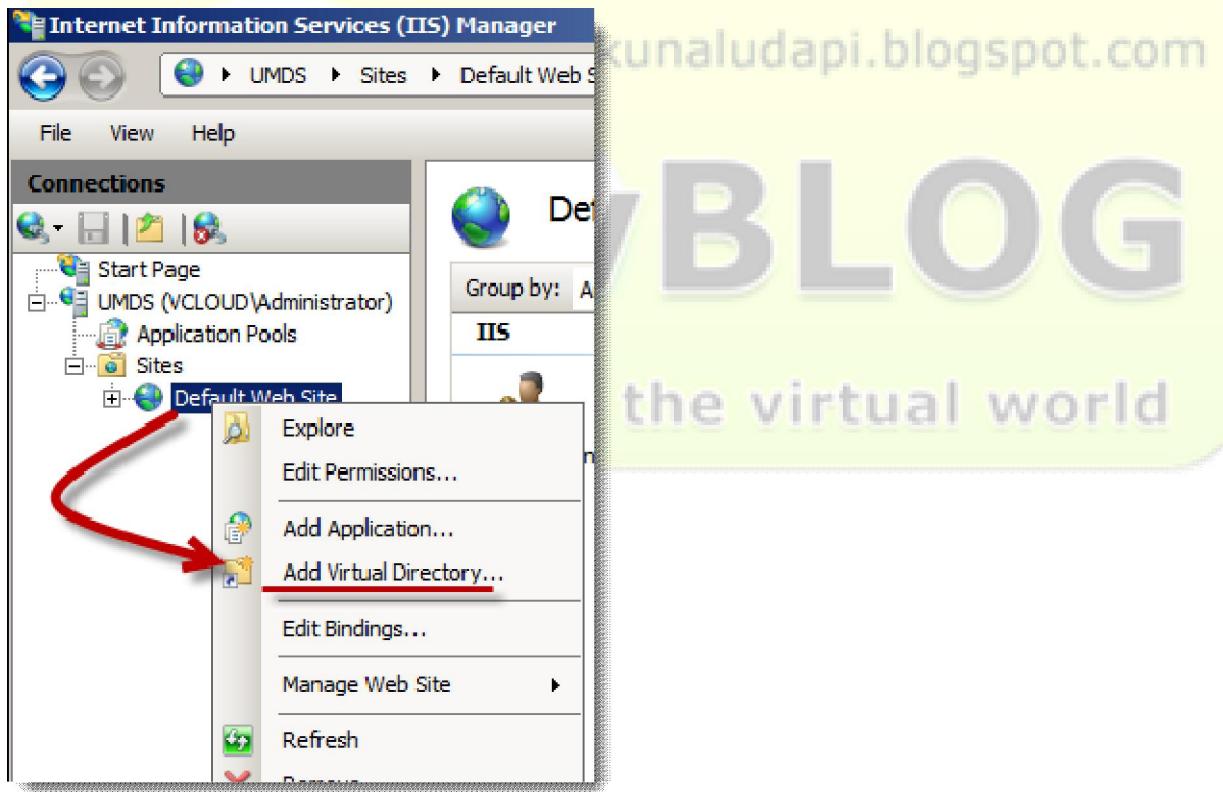


keep all the defaults and select server roles services page and press next , then press install.

Once all done, open IIS Manager.

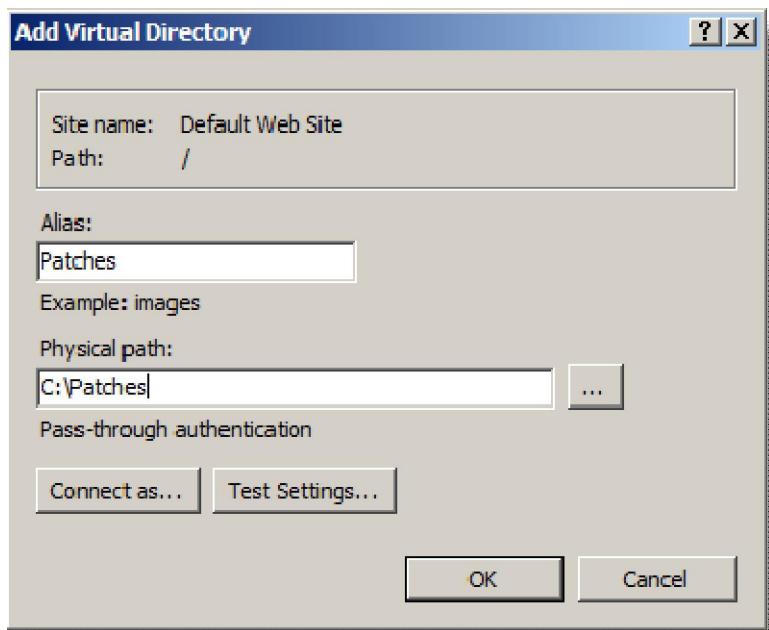


Right click Default Web Site and click Add Virtual Directory.

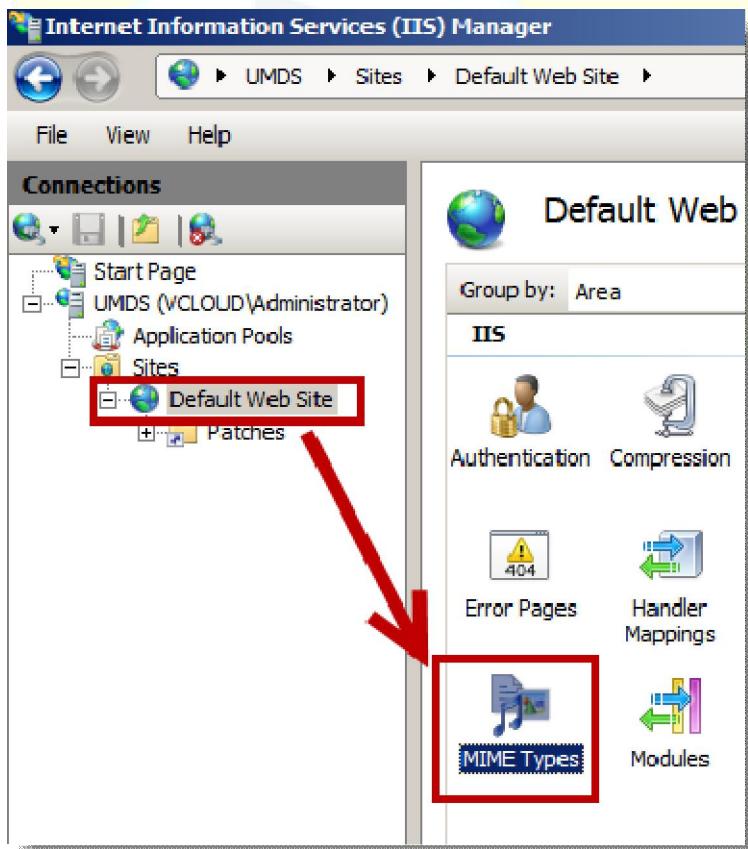


Use the Patches as alias and path will be C:\Patches which we gave while installing UMDS (Make sure C:\patches has sufficient permissions for users also you can change it through UMDS command line later)





Select Default Web Site and Open MIME Types

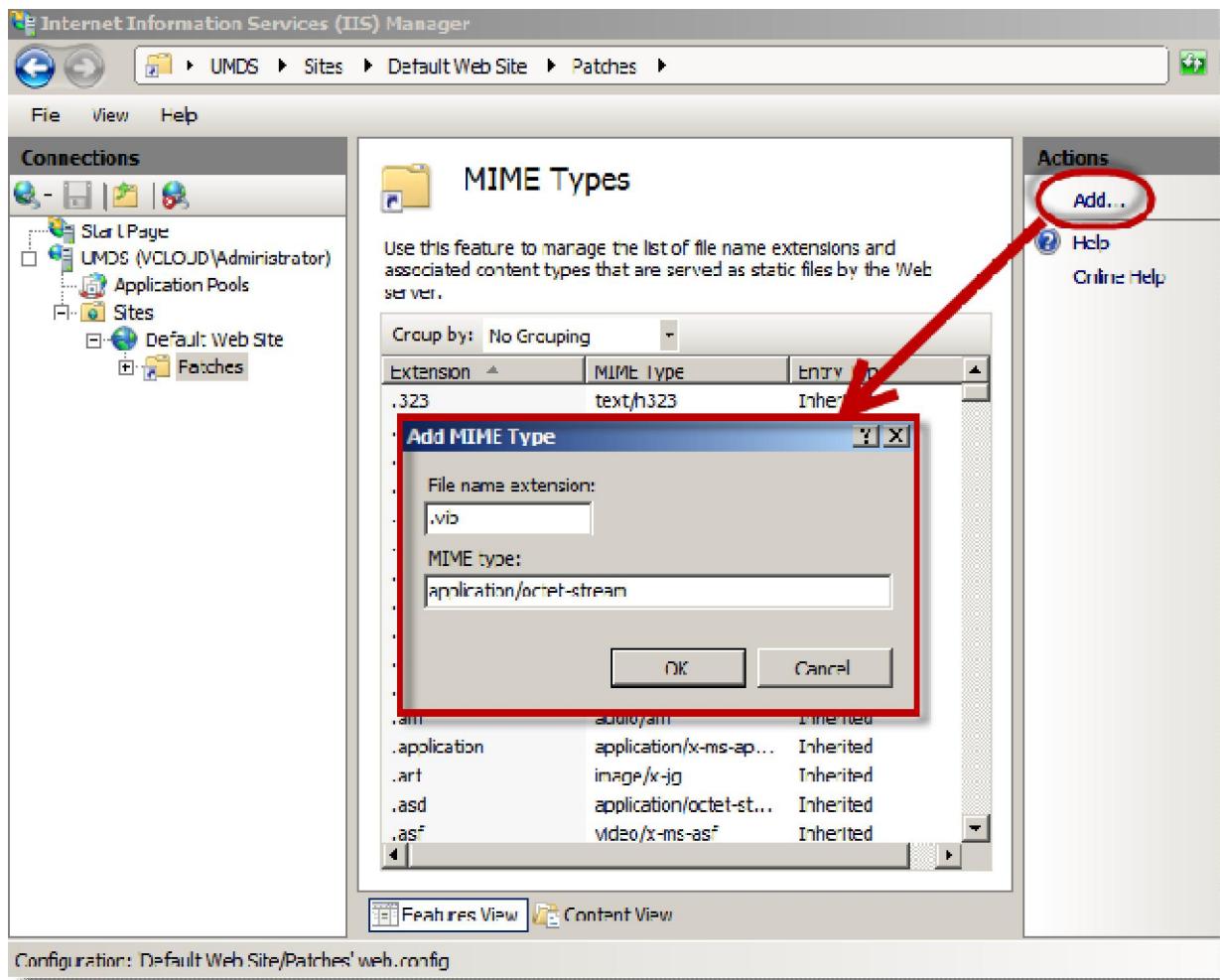


Add below MIME types one by one.

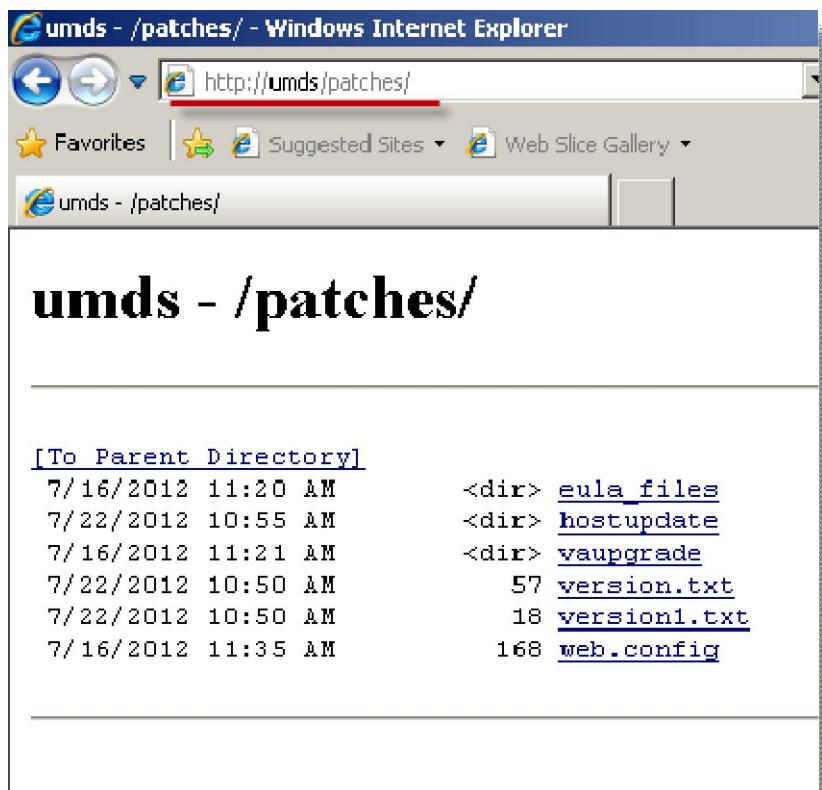


Windows Server 2008
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Configuration

File name extension	Mime type
.vib	application/octet-stream
.sig	application/octet-stream

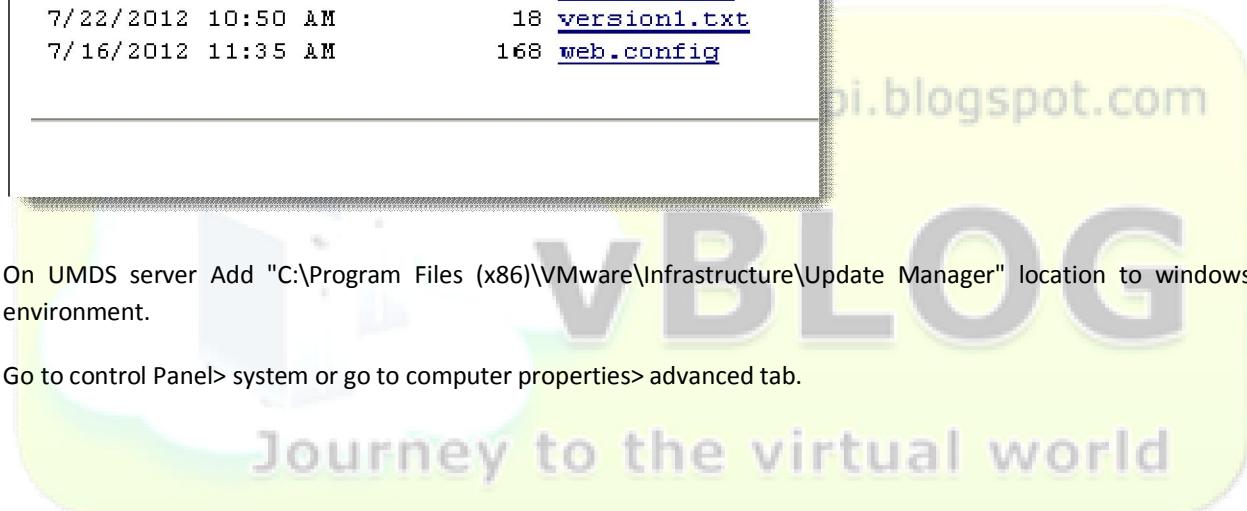


It's a time to test your UMDS web site from VMware update manager server. Just open and make sure "http://umds/patches/" is working in web browser (my UMDS server computer name is "umds") as you can see below it is successful.

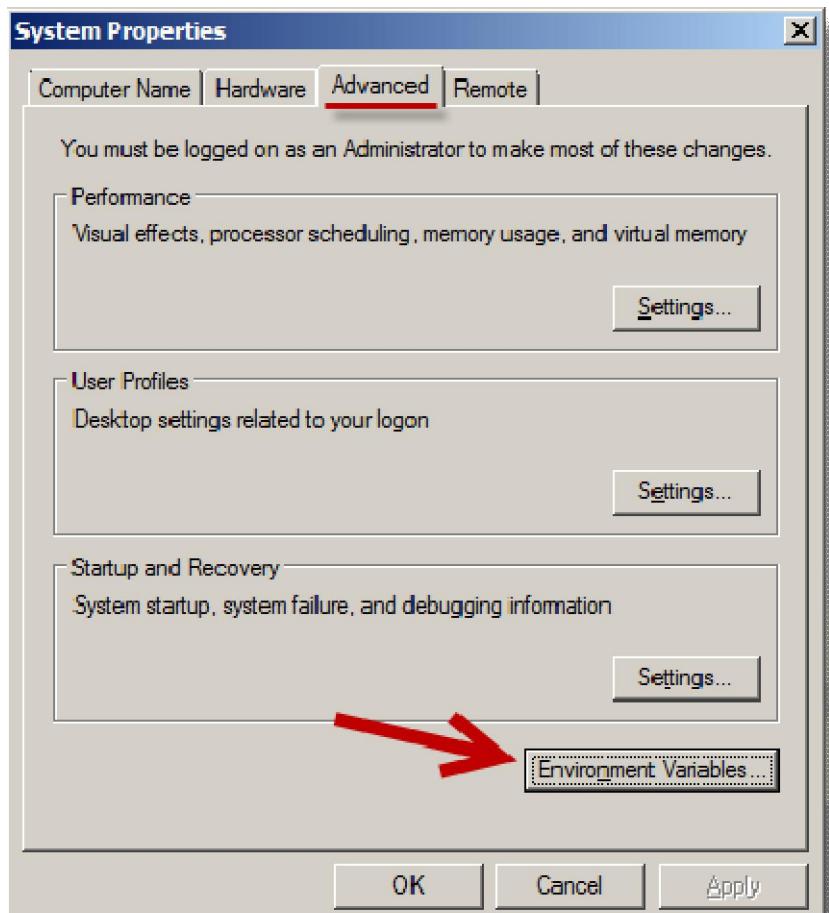


On UMDS server Add "C:\Program Files (x86)\VMware\Infrastructure\Update Manager" location to windows environment.

Go to control Panel> system or go to computer properties> advanced tab.

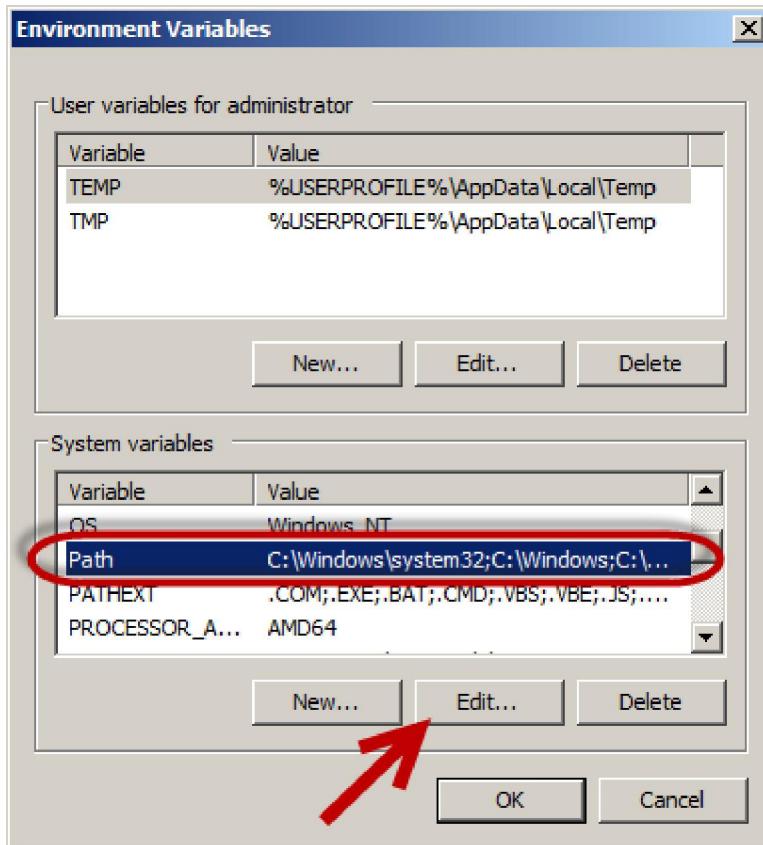


Windows Server 2008
Active Directory
Configuration



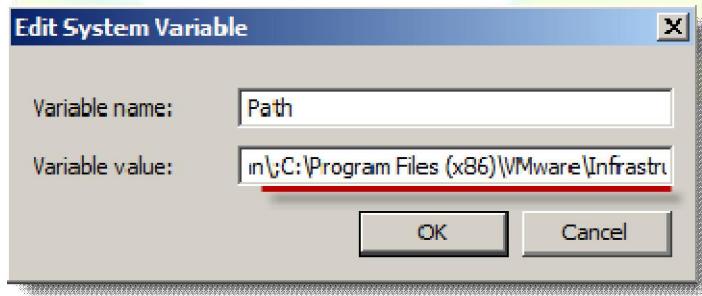
Click Environment variables.





Search for Path variable and click edit, Add below addition line at the end of variable value (no space)

;C:\Program Files (x86)\VMware\Infrastructure\Update Manager\



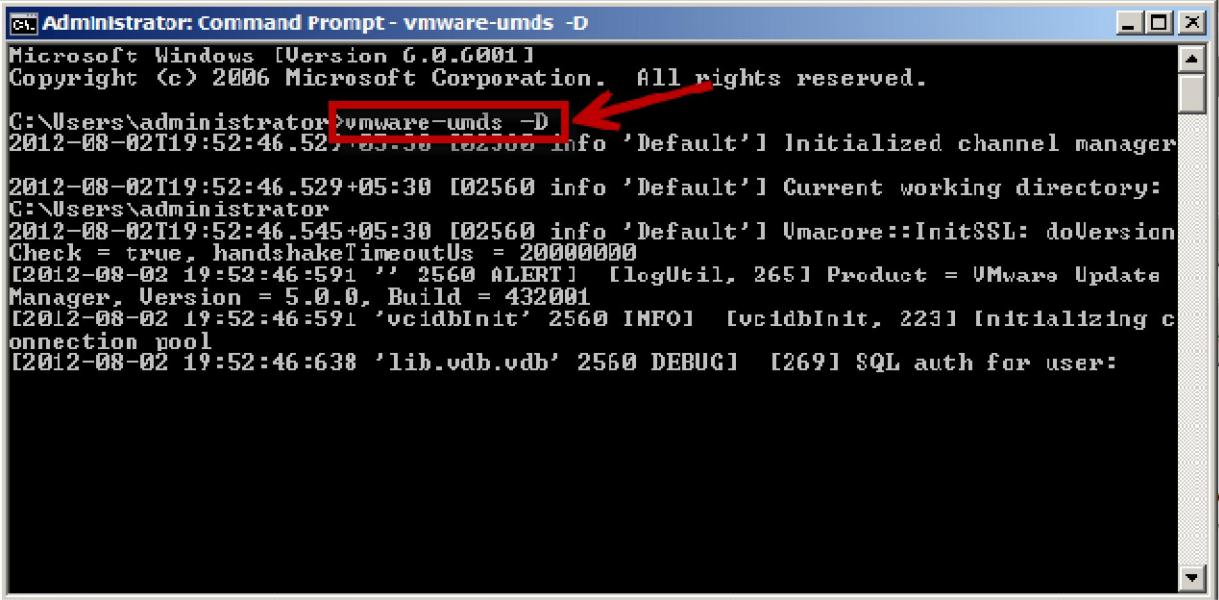
click ok trice.

Now it's time to download patches and upgrades from internet on UMDS server, UMDS is configured through command line only no GUI is available for it. Open command prompt (Run as administrator)

And just type "vmware-umds.exe -D" press enter (options and parameters are case sensitive). It will start downloading all the available patches/updates for all kind of hosts versions (make sure your Internet is working) it will download all the patches.



Windows Server 2008
Active Directory
Configuration



```
Administrator: Command Prompt - vmware-umds -D
Microsoft Windows [Version 6.0.6001]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Users\administrator>vmware-umds -D
2012-08-02T19:52:46.527+05:30 [02560 info 'Default'] Initialized channel manager
2012-08-02T19:52:46.529+05:30 [02560 info 'Default'] Current working directory:
C:\Users\administrator
2012-08-02T19:52:46.545+05:30 [02560 info 'Default'] Umacore::InitSSL: doVersion
Check = true, handshakeTimeoutUs = 20000000
[2012-08-02 19:52:46.591 +05:30 ALERT] [logUtil, 265] Product = VMware Update
Manager, Version = 5.0.0, Build = 432001
[2012-08-02 19:52:46.591 'vcidbInit' 2560 INFO] [vcidbInit, 223] Initializing c
connection pool
[2012-08-02 19:52:46.638 'lib.vdb.vdb' 2560 DEBUG] [269] SQL auth for user:
```

You will need to run vmware-umds -D to download every time for latest patches from internet, you can scheduled the command in schedule task.

You can configure Patches download location, patch/update source urls, Patches/updates to download (whether for different versions let's say I want to download for only esxi5 version patches/updates), for more help just type vmware-umds.exe, which gives detailed help about the command.

Journey to the virtual world



Windows Server 2008
Active Directory
Configuration

```
C:\Users\administrator>vmware-umds.exe
2012-08-02T19:56:56.326+05:30 [00464 info 'Default'] Initialized channel manager
2012-08-02T19:56:56.326+05:30 [00464 info 'Default'] Current working directory: C:\Users\administrator
2012-08-02T19:56:56.326+05:30 [00464 info 'Default'] Unacore::InitSSL: doVersionCheck = true, handshakeTimeoutUs = 20000000
[2012-08-02 19:56:56:326 ' 464 ALERT] [logUtil, 265] Product = VMware Update Manager, Version = 5.0.0, Build = 432001
Allowed Options:

Basic Commands:
-H [ --help ] Show this message
-D [ --download ] Download updates based on the current configuration
-E [ --export ] Export all updates that have been downloaded.
Optional use start-time and end-time to restrict
3.x host update export to a time range
-R [ --re-download ] Re-download existing updates that may be corrupted
and download new updates. Use this command only if
you suspect UMDS patch store is corrupted. Optionally,
use with start-time and end-time to specify time
range for re-download of existing updates. DEPRECATED
-S [ --set-config ] Setup UMDS configuration
-G [ --get-config ] Print current UMDS configuration
-v [ --version ] Print UMDS version
-i [ --info-level ] arg The level of information shown on the console:
<verbose|info>. Use this along with download, export
or re-download operation only
--list-host-platforms List all supported ESX platforms for download

Optional argument for export:
--export-store arg Destination directory for export operation (Overrides
setting from configuration)

Optional arguments for export and re-download:
-s [ --start-time ] arg Format is ISO-8601 YYYY-MM-DDThh:mm:ss[Z]. Use 'Z' at
the end to indicate UTC.
For export, start-time restricts selection to include
updates released after this time (inclusive) and
applies only to ESX/ESXi 3.x updates. It is ignored
for ESX/ESXi 4.x and VM updates.
For re-download, all types of updates downloaded
after this time will be re-downloaded together with
the new updates.
-t [ --end-time ] arg Format is ISO-8601 YYYY-MM-DDThh:mm:ss[Z]. Use 'Z' at
the end to indicate UTC.
For export, end-time restricts selection to include
updates released until this time (inclusive) and
applies only to ESX/ESXi 3.x updates. It is ignored
for ESX/ESXi 4.x and VM updates.
For re-download, all types of updates downloaded
until this time will be re-downloaded together with
the new updates.

Arguments for set config:
--add-url arg Add a URL to the configuration for downloading updates. Requires url-type
```

The last steps here is to configure vmware updates manager. Log on to vcenter server (I will assume you have already installed update manager/ update manger plug-ins), go to update manager> configuration> download settings> use a shared repository



Windows Server 2008
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Configuration

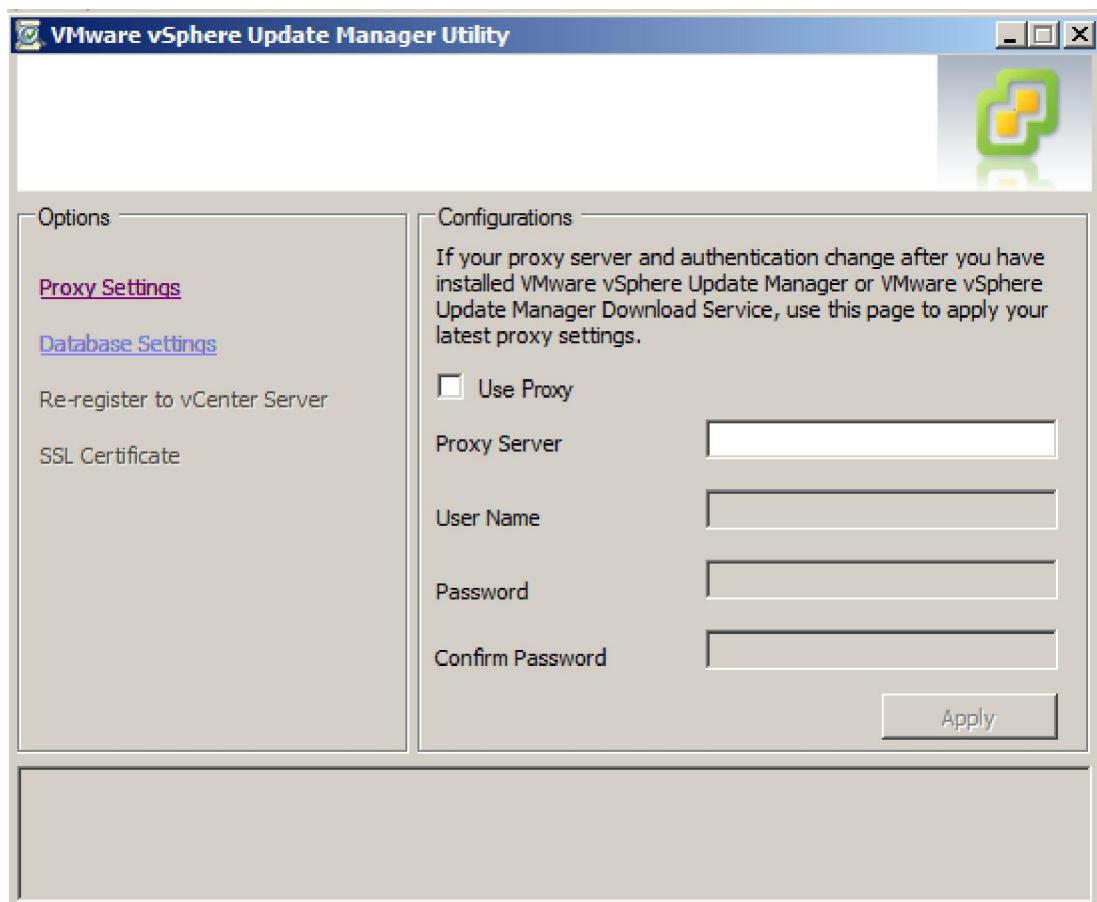
The screenshot shows the 'Update Manager Administration' interface for a host named 'vcenter5.vcloud.lab'. The 'Configuration' tab is selected. On the left, a sidebar under 'Settings' has 'Download Settings' highlighted with a red box. The main area shows 'Download Sources' with several entries listed. Below this, there's a section for 'Use a shared repository' where the URL 'http://umds/patches' is entered. A 'Validate URL' button is present. A large blue arrow points from the 'Validate URL' button to a green box containing the validation result: 'Connected' with a checkmark.

Type the UMDS url and press validate. Once it gets successfully connected you will see connected with green mark appeared. (There is another way if you don't want to deploy and manage web server,(I will recommend Web Server only as it is very easy and hassle free) you need to copy C:\patches folder from UMDS server to VMware update manager server and then give the local path ie: you copied patches on update manager to "c:\patches" type the local drive path in validate URL. (Mapped drive or shared location does not work) you can utilize DFSR for replication or any other synchronization software for the same.)



To reconfigure Database password, proxy authentication there is tool available in the "C:\Program Files (x86)\VMware\Infrastructure\Update Manager", in case if there are any changes in infrastructure (DB password and proxy authentication)

Vmwareupdatemangerutility.exe



Now you are ready to download patches/updates centrally and keep your VMware infrastructure updated.

Journey to the virtual world



Windows Server 2008
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Configuration