Practical No.3

Aim: Native Virtualization using Hyper-V.

HYPER-V

Hyper-V, codenamed Viridia and formerly known as Windows Server Virtualization, is a native hypervisor; it can create virtual machines on x86-64 systems. Starting with Windows 8, Hyper-V supersedes Windows Virtual PC as the hardware virtualization component of the client editions of Windows NT.

A host server running Hyper-V could be accessed remotely by multiple guest computers. Each guest computer could perform as if they are using the host server directly. Users on the guest computers could run applications in the host server remotely, even though that application is not available on the guest computer.

A beta version of Hyper-V was shipped with certain x86-64 editions of Windows Server 2008, and a finalized version (automatically updated through Windows Update) was released on June 26, 2008.^[7] Hyper-V has since been released in a free stand-alone version, and has been upgraded to Release 2 (R2) status.^{[8][9]} It was updated in Windows Server 2012.^[10]

The stand-alone Hyper-V Server variant does not require an existing installation of Windows Server 2008 nor Windows Server 2008 R2. Microsoft Hyper-V server is built with components of Windows and has a Windows Server Core user experience System requirements of Microsoft Hyper-V server are the same for supported guest operating systems and processor, but differ in the following:

- RAM: Minimum: 1 GB RAM; Recommended: 2 GB RAM or greater; Maximum 1 TB.
- Available disk space: Minimum: 8 GB; Recommended: 20 GB or greater.



1. Click on server Manager



4. Click on Mange -> Add Roles and features

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IL Local Server IL Local Server III All Servers III File and Storage Services ▷	ROLES AND SERVER GROUPS Roles: Server groups: Servers total 1 File and Storage Services 1 Manageability Events Performance BPA results	Local Server 1 Manageability Events Services Performance BPA results	All Servers 1 Manageability Events Services Performance BPA results	Remove Roles and Features Add Servers Create Server Group Server Manager Properties
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6. Click Next



7. Select the server from the sever pool

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€€-	Server Manager	• Dashboard			• 🕲 🏲	Manage Tool:	View	Help
III Dashboard	2	Add Roles and Features Wizard						
Local Servers	Select destination	n server	DESTINATION WIN-HLQ7	SERVER SBJVE38 1				
	Before You Begin Installation Type Genera Roles Petunes Confirmation Results	Select a server or a virtual hard disk on which to insta Select a server from the server pool Select a virtual hard disk Server Pool Filter Name IP Address Ope WN+HCQ158/V530 1902.1653.120 Mice 1 Computer(s) found 1 Computer(s) found Thip page shows servers that are running Windows SA	II roles and features. rating System coolf Windows Server 2012 & Standard coolf Windows Server 2012 & Standard prover 2012, and that have been added by u vers and newly-added servers from which o	DI4 11.54 PM				
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8. Select Hyper-V





9. Click on Add features button

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2	Add Roles and Features Wizard	
Select server role	Solutions on more called to justify on the calented ensure	DESTINATION SER WIN-HLQ7SBJVI
Installation Type Server Selection Server Roles Features Hyper-V Virtual Switches Migration Default Stores Confirmation Results	Roles Active Directory Certificate Services Active Directory Domain Services Active Directory Rights Management Services Application Server DHCP Server DNS Server Fax Server P ille and Storage Services (1 of 12 installed) V Hyper-V Network Policy and Access Services Print and Document Services Remote Access Remote Desktop Services	Description Hyper-V provides the services tha you can use to create and manag virtual machines and their resour Each virtual machine is a virtualiz computer system that operates in isolated execution environment. I allows you to run multiple operat systems simultaneously.

	Add Roles and Features Wizard
Select features	DESTINATION SERVER WIN-HLQ75BJVE38
Before You Begin Installation Type Server Selection Server Roles Features Hyper-V Virtual Switches Migration Default Stores Confirmation Results	Select one or more features to install on the selected server. Features Image: NET Framework 3.5 Features Image: NET Framework 3.5 Features Image: NET Framework 4.5 Features (2 of 7 installed) Image: NET Framework 4.5 Fea
	< Previous Next > Install Cancel
k Next	Add Roles and Features Wizard
k Next ⊾ Hyper-V	Add Roles and Features Wizard
k Next Before You Begin Installation Type Server Selection Server Roles Features	Add Roles and Features Wizard
k Next Reveal of the second s	Add Roles and Features Wizard
k Next Hyper-V Before You Begin Installation Type Server Selection Server Roles Features Hyper-V Virtual Switches Migration Default Stores Confirmation Results	Add Roles and Features Wizard DESTINATION SERVER WINHLOYSBUESB Hyper-V allows you to virtualize your server workloads by running those workloads on virtual machines. You can use virtual machines to consolidate multiple workloads on one physical server, to improve server availability, and to increase efficiency in developing and testing software. Things to note: After you install this role, you should identify which network connections on this server you want to use for setting up virtual switches. After you install Hyper-V, you can use Hyper-V Manager to create and configure your virtual machines.

13. Check	the Ethernet and	l Click Next		
	a	Add Roles and Fea	atures Wizard	_ 🗆 🗙
	Create Virtual Sw	itches		DESTINATION SERVER WIN-HLQ7SBJVE38
	Before You Begin Installation Type Server Selection Server Roles Features	Virtual machines require virtual switches to communicate with other computers role, you can create virtual machines and attach them to a virtual switch. One virtual switch will be created for each network adapter you select. We reco at least one virtual switch now to provide virtual machines with connectivity to can add, remove, and modify your virtual switches later by using the Virtual Swi Network adapters.		ifter you install this mend that you create shysical network. You h Manager.
	Hyper-V	Name Description		
	Virtual Switches Migration Default Stores	🗹 Ethernet	Realtek PCIe GBE Family Controller	
	Confirmation Results	We recommend that you reserve network adapter, do not select it	one network adapter for remote access to t for use with a virtual switch.	his server. To reserve a
			< Previous Next >	tall Cancel

🛓 Add Roles and Features Wizard 📃 🗖 🗙						
Virtual Machine N Before You Begin Installation Type Server Selection Server Roles Features Hyper-V Virtual Switches Migration Default Stores Confirmation Results	Migration Hyper-V can be configured to send and receive live migrations of virtual machines Configuring Hyper-V now enables any available network on this server to be used you want to dedicate specific networks for live migration, use Hyper-V settings aft Allow this server to send and receive live migrations of virtual machines Authentication protocol Select the protocol you want to use to authenticate live migrations. ● Use Credential Security Support Provider (CredSSP) This protocol is less secure than Kerberos, but does not require you to set up delegation. To perform a live migration, you must be logged on to the source ● Use Kreberos This protocol is more secure but requires you to set up constrained delegation rownent to perform tasks such as live migration when managing this set If this server will be part of a cluster, do not enable migration now. Instead, you server for live migration, including specifying networks, when you create the comparison of the source of the server for live migration, including specifying networks, when you create the comparison of the server for live migration including specifying networks, when you create the comparison of the server for live migration, including specifying networks, when you create the comparison of the server for live migration including specifying networks, when you create the comparison of the server for live migration including specifying networks, when you create the comparison of the server for live migration including specifying networks, when you create the comparison of the server for live migration including specifying networks, when you create the	DESTINATION SERVER WIN-HLQ7SBJVE38 on this server. for live migrations. If er you install the role. p constrained ce server. on in your rver remotely. su will configure the cluster.				
	< <u>Previous</u> <u>Next</u> Inst	tall Cancel				

15. Select the destination Folder where you would like to install new virtual machine-> Click Next

A	Add Roles and Features Wizard
Default Stores	DESTINATION SERVER WIN-HLQ75BJVE38
Before You Begin Installation Type Server Selection Server Roles Features	Hyper-V uses default locations to store virtual hard disk files and virtual machine configuration files, unless you specify different locations when you create the files. You can change these default locations now, or you can change them later by modifying Hyper-V settings. Default location for virtual hard disk files: D:\winxp
Hyper-V	Default location for virtual machine configuration files:
Virtual Switches Migration Default Stores Confirmation Results	D:\winxp
	<u> </u>

16. Click Install

b	Add Roles and Features Wizard	_ D X
Confirm installates Before You Begin Installation Type Server Selection Server Roles Features Hyper-V Virtual Switches Migration Default Stores Confirmation Results	Add Roles and Features Wizard tion selections To install the following roles, role services, or features on selected server, click Restart the destination server automatically if required Optional features (such as administration tools) might be displayed on this pa been selected automatically. If you do not want to install these optional feature their check boxes. Hyper-V Remote Server Administration Tools Hyper-V Management Tools Hyper-V GUI Management Tools Hyper-V Module for Windows PowerShell	DESTINATION SERVER WIN-HLQ7SBJVE38 Install. ge because they have res, click Previous to clear
	Export configuration settings Specify an alternate source path < Previous	Install Cancel

17.

nstallation prog	ITESS DESTINATION SERVI
	View installation progress
	1 Starting installation
	Hyper-V
	Remote Server Administration Tools
	Role Administration Tools
	Hyper-V Management Tools
	Hyper-V Module for Windows PowerShell
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Results	•
	You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details. Export configuration settings



19.

E.		Server Manage	er	-	۵ X
Server Ma	anager • Dashboard			• 🕄 🚩 Manage Tools View	Help
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20. Go to Tools->HyperVManager

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E Castboard ■ Load Sever ■ A 13 sever ■ File and Storage Services ▷ ■ Hyper-V	nager • Dashboard ROLES AND SERVER GROUPS Roles 2 Server solution File and Storage Services 1 Services 1 Performance BPA results	al ■ Hyper-V 1 O Manageability Events Services Performance BPA results BPA results BPA results 2/29	Image: Composent Services Event Viewer Bill CS Initiate Composent Services Service Viewer Composent Services Composent Services Composent Service Viewer Composent Viewer Composent Service Viewer Composent Viewer Viewer Montantion Tas Schedule Windows Severthall US Windows Severt Bell US Windows Server Bell US Windows Server Bell US Windows Server Bell US
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21. Still no Virtual Machine is installed on hyper-v

1	Hyper-V Manager		- 0	X
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WIN-HLQ758JVE38	Virtual Machines		WIN-HLQ7SBJVE38	-
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			Virtual Switch Manager	
			Virtual SAN Manager	
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			View	
			Help	
	Details			
	No item selected.			
N-HLQ7SBJVE38: 0 virtual mac	hines selected.			
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22. Right Click on WIN-HLQ7SBJVE38 under Hyper-v Manager -> Click New ->Virtual Machine

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Displays the New Virtual Machine W	ji fizard.						1	
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23. Click Next

8	New Virtual Machine Wizard	ĸ
Before You E	Begin	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	This wizard helps you create a virtual machine. You can use virtual machines in place of physical gou can change the configuration later using Hyper-V Manager. To create a virtual machine, do one of the following: • Click Finish to create a virtual machine that is configured with default values. • Click Next to create a virtual machine with a custom configuration.	
	< Previous Next > Einish Cancel	

24. Type the name of VM and select the path of hyper-v

30	New Virtual Machine Wizard
Specify Name	e and Location
Before You Begin Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Choose a name and location for this virtual machine. The name is displayed in Hyper-V Manager. We recommend that you use a name that helps you easily identify this virtual machine, such as the name of the guest operating system or workload. Name: winxp You can create a folder or use an existing folder to store the virtual machine. If you don't select a folder, the virtual machine is stored in the default folder configured for this server. ♥ Store the virtual machine in a different location Location: D:/winxp/ Browse Prowse Prowse
	< Previous Next > Enish Cancel

25. Click Next

30	New Virtual Machine Wizard
Specify Gene	ration
Before You Begin Specify Name and Location Specify Ceneration Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Choose the generation of this virtual machine. ● Generation 1 This virtual machine generation provides the same virtual hardware to the virtual machine as in previous versions of Hyper-V. O Generation 2 This virtual machine generation provides support for features such as Secure Boot, SCSI boot, and PXE boot using a standard network adapter. Guest operating systems must be running at least Windows Server 2012 or 64-bit versions of Windows 8. Once a virtual machine has been created, you cannot change its generation.
	< Previous Next > Einish Cancel

26. Set the memory as 1024MB

8	New Virtual Machine Wizard
Assign Memo	or y
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 32 MB through 5936 MB. To improve performance, specify more than the minimum amount recommended for the operating system. Startup memory: 1024 MB Use Dynamic Memory for this virtual machine. When you decide how much memory to assign to a virtual machine, consider how you intend to use the virtual machine and the operating system that it will run.
	< Previous Next > Finish Cancel

27. Select the Connection as Shown:

8	New Virtual Machine Wizard
Configure Ne	etworking
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Each new virtual machine includes a network adapter. You can configure the network adapter to use a virtual switch, or it can remain disconnected. <u>Connection:</u> Realtek PCIe GBE Family Controller - Virtual Switch <u>Not Connected</u> <u>Realtek PCIe GBE Family Controller - Virtual Switch</u>
	< Previous Next > Finish Cancel

28. Set the size 50GB and click next

80	New Virtual Machine Wizard
Connect Virt	ual Hard Disk
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	A virtual machine requires storage so that you can install an operating system. You can specify the storage now or configure it later by modifying the virtual machine's properties. (a) Greate a virtual hard disk Use this option to create a VHDX dynamically expanding virtual hard disk. Name: winxp.vhdx Location: D:\winxp\winxp\Virtual Hard Disks\ Size: 50 GB (Maximum: 64 TB) (a) Use this option to attach an existing virtual hard disk, either VHD or VHDX format. Location: D:\winxp\ (b) Cation: D:\winxp\ (c) GB (Maximum: 64 TB) (c) Use this option to attach an existing virtual hard disk, either VHD or VHDX format. Location: D:\winxp\ (c) Attach a virtual hard disk later Use this option to skip this step now and attach an existing virtual hard disk later.
	< Previous Next > Finish Cancel

29.				
30	New Virtual Machine Wizard			
Installation	Options			
Before You Begin Specify Name and Location Specify Generation	You can install an operating system now if you have access to the setup media, or you can install it later. O Install an operating system later			
Assign Memory Onfigure Networking Connect Virtual Hard Disk O Physical CD/DVD drive: F:				
Installation Options Summary	Image file (.iso): D:\iso images\ Browse			
	Install an operating system from a bootable floppy disk Media <u>V</u> irtual floppy disk (.vfd): <u>B</u> rowse			
	O Install an operating system from a n <u>e</u> twork-based installation server			
	< Previous Next > Einish Cancel			

30. Click on browse n select d path for iso image of xp.

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8.	New Virtual Machine Wizard
Installation (Options
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk <u>Installation Options</u> Summary	You can install an operating system now if you have access to the setup media, or you can install it later. Install an operating system later Install an operating system from a bootable <u>CD/DVD-ROM</u> Media Physical CD/DVD drive: F: Image file (.iso): D: \vert so images\\VXPVOL_EN.iso Browse Media Virtual floppy disk (.vfd): Image file (.vfd): Browse
	< Previous Next > Einish Cancel

32. Click Finish

3 .	New Virtual Machine Wizard
Completing	j the New Virtual Machine Wizard
Before You Begin Specify Name and Location Specify Generation	You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine. Description:
Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Name: winxp Generation: Generation 1 Memory: 1024 MB Network: Realtek PCIe GBE Family Controller - Virtual Switch Hard Disk: D:\winxp\winxp\Virtual Hard Disks\winxp.vhdx (VHDX, dynamically expanding) Operating System: Will be installed from D:\jso images\WXPVOL_EN.iso
	To create the virtual machine and close the wizard, click Finish.
	< <u>P</u> revious <u>N</u> ext > <u>F</u> inish Cancel

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35. Right Click on winxp-> Start

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File Action View Help							
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Hyper-V Manager	Minture Manakiman						Actions
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		Enable Replication	The selected virtual mach	iine has no checkpoint	S.		🔉 Refresh
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						Virtual Switch Manager	
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		The selected virtual mach	ine has no checkp	oints.		Refrech	
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Summary Memory Networking	Replication					Export	L
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37. After double click on winxpvm -> the following screen will appear ->

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the Setup program pre run on your computer	epares Microsoft(R) *-	
Windows XP now, press	ENTER.	
a Windows XP installa onsole, press R.	ation using	
tup without installir	ng Windows XP, press	F3.
		D-Pauain F2-Ouit

38. Press ENTER

Windows XP Licensing Agreement
Microsoft Windows XP Professional
END-USER LICENSE AGREEMENT
IMPORTANI-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Microsoft Corporation for the Microsoft software product identified above, which includes computer software and may include associated media, printed materials, "online" or electronic documentation, and Internet-based services ("Product"). An amendment or addendum to this EULA may accompany the Product. YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA BY INSTALLING, COPYING, OR OTHERWISE USING THE PRODUCT. IF YOU DO NOT AGREE, DO NOI INSTALL OR USE THE PRODUCT; YOU MAY RETURN IT TO YOUR PLACE OF PURCHASE FOR A FULL REFUND.
 GRANT OF LICENSE. Microsoft grants you the following rights provided that you comply with all terms and conditions of this EULA:
* Installation and use. You may install, use, access, display and run one copy of the Product on a single computer, such as a workstation, terminal or other device ("Workstation Computer"). The Product may not be used by more than two (2) processors at any one time on any
F8=I agree ESC=I do not agree PAGE DOWN=Next Page

39. Press F8

Windows XP Professional Setup
The following list shows the existing partitions and unpartitioned space on this computer.
• To set up Windows XP on the selected item, press ENTER.
• To create a partition in the unpartitioned space, press C.
• To delete the selected partition, press D.
51200 MB Disk 0 at Id 0 on bus 0 on atapi [MBR]
Unpartitioned space 51199 MB

ENTER=Install C=Create Partition F3=Quit

40. Press ENTER key

Windows XP Professional Setup
A new partition for Windows XP has been created on
51200 MB Disk 0 at Id 0 on bus 0 on atapi [MBR].
This partition must now be formatted.
From the list below, select a file system for the new partition. Use the UP and DOWN ARROW keys to select the file system you want, and then press ENTER.
If you want to select a different partition for Windows XP, press ESC.
Format the partition using the NTFS file system (Quick) Format the partition using the NTFS file system
ENTER=Continue ESC=Cancel

ii zii a	ows XP Professional Setup
	Please wait while Setup formats the partition
	on 51200 MB Disk 0 at Id 0 on bus 0 on atapi [MBR].
	Setup is formatting 9%
/indow	s XP Professional Setup
This	portion of Setup has completed successfully.
If t To r When	here is a floppy disk in drive A:, remove it. estart your computer, press ENTER. your computer restarts. Setup will continue.
	Your computer will reboot in 11 seconds

42. Press any key



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Microsoft[.]



44. Installing Devices

43.



45. Click Next



46. Type the Name and Click Next

	Windows XP Pro	ofessional Setup				
 Collecting information Dynamic Update 	Personalize Setup us XP softw	e Your Software es the information y are.	ou provide abou	yourself to pe	rsonalize your Windows	Ē
 Preparing installation Installing 	<u>R</u>	Type your full nam	e and the name	of your compa	ny or organization.	
Windows		Na <u>m</u> e:	msclT			
 Finalizing installation 		Organization:				-
Setup will complete approximately: 33 minutes						
			<i>₽</i>	< <u>B</u> ack	Next >	

47.



48. Enter product key

	Windows XP Professional Setup
information	Your Product Key
Dynamic Update	Your Product Key uniquely identifies your copy of Windows XP.
 Preparing installation 	Please see your License Agreement Administrator or System Administrator to obtain your 25-character Volume License product key. For more information see your product
Installing Windows	packaging.
Finalizing installation	Type the Volume License Product Key below:
ietup will complete Ipproximately: 33 minutes	Product Key: MYHVT · WQ49M · QRPVF · V86FC · P3R84
	< Back Next >

49. Click next and type password

🛃 Windows xp	₩
 Collecting information Dynamic Update 	Windows XP Professional Setup Image: Computer Name and Administrator Password Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your computer. Image: Computer Name and Administrator Password for your comput
 Preparing installation Installing Windows Finalizing installation Setup will complete approximately: 33 minutes 	Setup has suggested a name for your computer. If your computer is on a network, your network administrator can tell you what name to use. Computer name: MSCIT-A9F0FDA91 Setup creates a user account called Administrator. You use this account when you need full access to your computer. Type an Administrator password. Administrator password: Confirm password:
	< <u>B</u> ack <u>N</u> ext>

50. Click Next



51. After Click on Next









 Windows ^{xp}	
Help protect your PC	
With Automatic Updates, Windows can routinely check for the latest important updates for your computer and in automatically. These updates can include security updates, critical updates, and service packs.	
Help protect my PC by turning on Automatic Updates now (recommended)	
Not right now If you haven't turned on Automatic Updates, your computer is more vulnerable to viruses and other threads.	
	6
No information is collected that can be used to identify you or contact you	For I

59. Type Your Name and click next

58. Click

Windows^{xp}		
Who will us	e this computer?	
Type the name of each person can personalize the way you w customize the desktop.	who will use this computer. Windows will creat ant Windows to organize and display informatio	e a separate user account for each person so you n, protect your files and computer settings, and
Your name:	msc	
<u>2</u> nd User:		
<u>3</u> rd User:		
<u>4</u> th User:		
<u>5</u> th User:		
These names will appear on click your name on the Welco each user, or add more user Start menu, and then click Us	he Welcome screen in alphabetical order. Whe ne screen to begin. If you want to set password accounts after you finish setting up Windows, ju er Accounts .	n you start Windows, simply s and limit permissions for st click Control Panel on the
		(?)
		For help, click here or press F1.
Eack		Next 🔁

60. Click FINISH





