#### **ITSA1001: Server Administration Fundamentals**

# WEEK 6 PRACTICAL: INSTALL WINDOWS SERVER 2012 DOMAIN CONTROLLER

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ITSA1001

# Practical task outline

- Install Windows Server 2012 DC role
- Promote Windows Server 2012 to DC
- Install Windows XP/7 client
- Join Windows client to AD domain

# (you can watch provided video tutorial for additional information)



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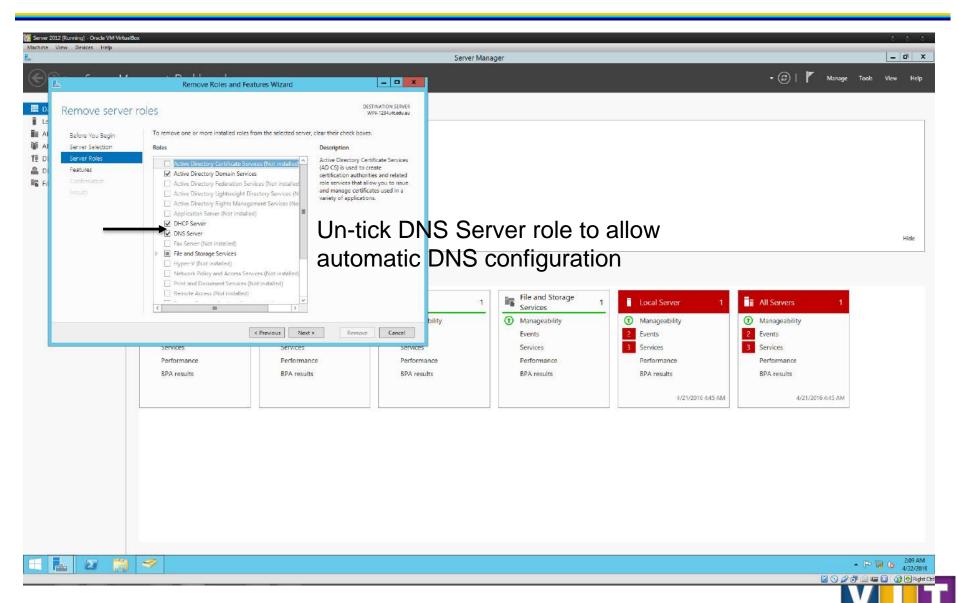
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erver Manager • AD DS	+ ②   🌇 Manage Tools View
All servers   1 total	TASKS •
A Configuration required for Active Directory Domain Services at WIN-1234	
Filter P (E) + (R) +	
Server Name IPv4 Address Manageability Last Update Windows Activation	
WIN-1234 192.168.123.1 Online - Performance counters not started 4/21/2016 2:58:38 AM Not activated	
EVENTS All events   12 total	TASKS -
Filter $\mathcal{P}$ $(i)$ $\bullet$ $(i)$	$\odot$
Server Name ID Sevenity Source Log Date and Time	
WIN-1234 1202 Error DFSR DFS Replication 4/21/2016 2:48:28 AM	
WIN-1234 408 Error Microsoft-Windows-DNS-Server-Service DNS Server 4/21/2016 2:48:21 AM	
WIN-1234 408 Error Microsoft-Windows-DNS-Server-Service DNS Server 4/21/2016 2:48:21 AM	
WIN-1234 414 Werning Microsoft-Windows-DNS-Server-Service DNS Server 4/21/2016 2:48:21 AM	
WIN-1234 407 Error Microsoft-Windows-DNS-Server-Service DNS Server 4/21/2016 2:48:21 AM	
WIN-1234 404 Error Microsoft-Windows-DNS-Server-Service DNS Server 4/21/2016 248:21 AM	-
WIN-1234 1202 Error DFSR DFS Replication 4/21/2016 2:24:32 AM	
SERVICES All services   13 total	TASKS -
Fatter 𝒫 (Ξ) ▼ (Θ) ▼	•
Server Name Display Name Service Name Status Start Type	
WIN-1234 Windows Time W32Time Stopped Manual (Triggered)	
WIN-1234 Active Directory Web Services ADWS Stopped Disabled	
WIN-1234 Active Directory Domain Services NTDS Stopped Disabled	
WIN-1234 Netlogon Netlogon Stopped Manual	
WIN-1234 Distributed Link Tracking Client TrkWks Running Automatic	
WIN-1234 Intersite Messaging IsmServ Stopped Disabled	
WIN-1234 DFS Namespace DFs Running Automatic	
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	Server Manager	
Server M	Manager + AD DS	• ②   🌇 Manage Iools Yiew
K.	All Servers Task Details	
	's Task Details and Notifications	TASKS
All Tasks   1 total		More
Filter	د د (۱) ۲ (۱) ۲ (۱) ۲ (۱) ۲ (۱)	\$
Status Task Name	me Stage Message Action Natifications	
11	ployment Configuration Not Sta Configuration required for Active Directory Da <u>Proprie this server to a domain</u> 1	
¢		
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Status Notificatio	tion Time Stamp	TASKS
(j) Additional	hal steps are required to make this machine a domain controller. 4/21/2016 248/40 AM	6
	WIN-1234 408 Error Microsoft-Windows-DNS-Server-Service DNS Server 4/21/2016 2/48/21 AM	
	WIN-1234 408 Error Microsoft-Windows-DNS-Server-Service DNS Server 4/21/2016 2/48/21 AM	
	WIN-1234         414         Warning         Microsoft-Windows-DNS-Server-Service         DNS Server         4/21/2016 2:48:21 AM           WIN-1234         407         Error         Microsoft-Windows-DNS-Server-Service         DNS Server         4/21/2016 2:48:21 AM	
	WIN-1234 404 Error Microsoft-Windows-DNS-Server-Service DNS Server 4/21/2016 248:21 AM	
	WIN-1234 1202 Error DFSR DFS Replication 4/21/2016 2:24:32 AM	
	SERVICES	
	All services   13 total	TASKS
	Fatter P (III • (III) •	6
	Server Name Display Name Service Name Status Start Type	
	WIN-1234 Windows Time W32Time Stopped Manual (Triggered)	
	WIN-1234 Active Directory Web Services ADWS Stopped Disabled	
	WIN-1234 Active Directory Domain Services NTDS Stopped Disabled	
	WIN-1234         Netlogon         Netlogon         Stopped         Manual           WIN-1234         Distributed Link Tracking Client         TrkWs         Running         Automatic	
	WIN-1234 Intersite Messaging IsmServ Stopped Diabled	
	WIN-1234 DFS Namespace Dfs Running Automatic	
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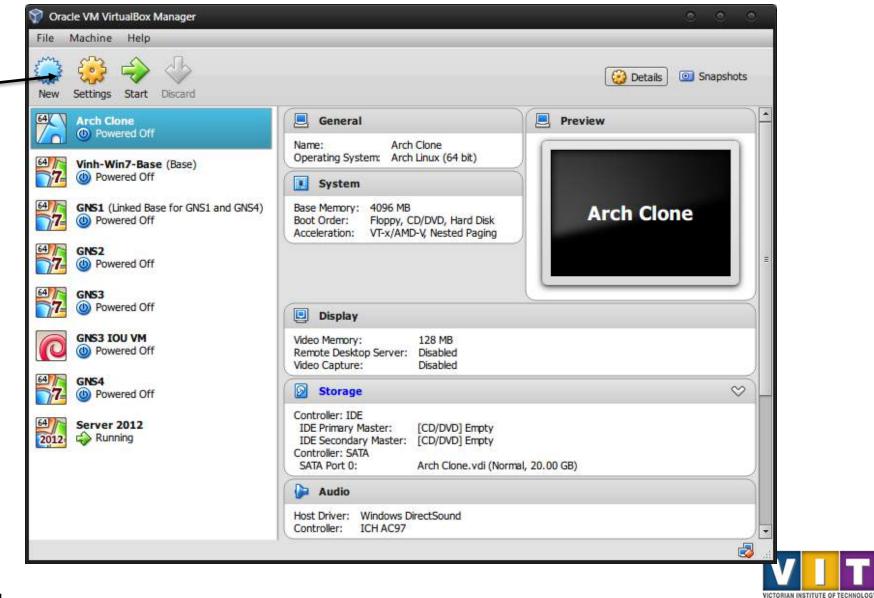
			Server Mana	iger		
	Active Directory Domain Services Configuration Wizard	×				• 🥑   🍢 Manage Tooks
oyment Cor	nfiguration	TARGET SERVER WIN-1234.VIT.edu.au				<u> </u>
ayment Configuration ain Controller Options tional Options w Options equisites Check liation	aclect the deployment operation		_			
	More about deployment configurations           Control         Next >           Events         Events           Services         Services           Performance         Performance           BPA results         BPA results	Install Cancel S	INS 1 Aanageability events services Performance SPA results	File and Storage Services     1       ① Manageability Events Services Performance BPA results	<ul> <li>Local Server 1</li> <li>Manageability</li> <li>Events</li> <li>Services Performance BPA results</li> </ul>	<ul> <li>All Servers 1</li> <li>Manageability</li> <li>Events</li> <li>Services</li> <li>Performance</li> <li>BPA results</li> </ul>
					4/21/2016 432 AM	4/21/2016 4:32 AM

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				Server Manager			-
	Active Directory Domain Services	Configuration Wizard	_ = ×			🕶 🕝   🍢 Manage Too	ik View
omain Controlle	r Options		TARGET SERVER WIN-1234.VIT.edu.au				
Deployment Configuration	Select functional level of the new forest	rand most domain					
iomain Controller Options	Forest functional level:	1	-				
	Domain functional level:						
	Specify domain controller capabilities						
	😥 Domain Name System (DNS) server						
rereguisites Check sitellation	Global Catalog (GC)	3					
esultz	Type the Directory Services Restore Mo						
	Password:	1	-				
	Confirm password:	•					
	Services	Services	stall Cancel Hanage Events Service	Events Services	Manageability     Events     Services     Performance	Manageability     Events     Services	
	Performance BPA results	Performance BPA results	Perform BPA res	and the second se	Performance BPA results	Performance BPA results	
		Li i i i i i i i i i i i i i i i i i i					
	4/21/2016 4:32 A	AM.			4/21/2016 4:32 AM	4/21/2016.4:32 AM	
				- A Art	ti di ti	2 <del>72 - 23</del>	
	lan <mark>.</mark>						

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		Server Manage	r	_
Server Ma	anager • AD DS		• @   🏹	<u>M</u> anage <u>I</u> ools <u>V</u> iew
	All Servers Task Details	_ 0 X		H.
L.	Active Directory Domain Services Configuration Wizard			TASK
-	TAR	RGET SERVER		More
Prerequisit	ITES Check	WIN-1234		
🔇 All prerequisi	site checks passed successfully. Click 'Install' to begin installation. Show r	more ×		
Deployment Co	Prerequisites need to be validated before Active Directory Domain Services is installed	on this		
Domain Contro DNS Option	enthese.			
Additional Opt	tions			
Paths	<ul> <li>View results weaker cryptography algorithms when establishing security channel sessions.</li> </ul>			
Review Option: Prerequisites G		p://		
Installation	go.microsoft.com/fwlink/?Linkld=104751). A delegation for this DNS server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the authoritative particular the server cannot be created because the server cannot be			
	zone cannot be found or it does not run Windows DNS server. If you are integral with an existing DNS infrastructure, you should manually create a delegation to t	ting		TASK
	DNS server in the parent zone to ensure reliable name resolution from outside the domain "VIT.edu.au". Otherwise, no action is required.			
	Prerequisites Check Completed			
	All prerequisite checks passed successfully. Click "Install" to begin installation.		While it install the	
	If you click Install, the server automatically reboots at the end of the promotion op.	stor.		
	More about prerequisites		Active Directory	
	< Previous Next > Install	Cancel	5	
	WIN-1234 404 Error Microsoft-Windows-DNS-Servier-Service DNS Server 4/21/20	2:48:21 AM	Domain Controller,	
	WIN-1234 1202 Error DFSR DFS Replication 4/21/201	5 2:24:55 QM		
			proceed with setting up	
	SERVICES All services   13 total		the client. <b>DON'T</b>	TASK
	Fitter ♀ (第) ▼			
	Carden Marine Marine Carden Marine Carden Street		CLOSE THE SERVER	
	Server Name Display Name Service Name Status Start Type WIN-1234 Windows Time W32Time Stopped Manual (Triggered)			
	WIN-1234         Windows Time         W32Time         Stopped         Manual (Triggered)           WIN-1234         Active Directory Web Services         ADWS         Stopped         Disabled		<b>2012 WINDOW</b>	
	WIN-1234 Active Directory Domain Services NTDS Stopped Disabled			
	WIN-1234 Netlogon Netlogon Stopped Manual			
	WIN-1234 Distributed Link Tracking Client TrkWks Running Automatic WIN-1234 Intersite Messaging IsmServ Stopped Disabled			
	WIN-1234 DFS Namespace Dfs Running Automatic			
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¥		8
Create	Virtual Machine	
Name	and operating system	
Name	and operating system	
Please o	hoose a descriptive name for the new virtual mac	hine and select th
	operating system you intend to install on it. The r throughout VirtualBox to identify this machine.	name you choose v
<u>N</u> ame:		
Type:	Microsoft Windows	<b>*</b>
Version:	Windows XP (32 bit)	
	-	

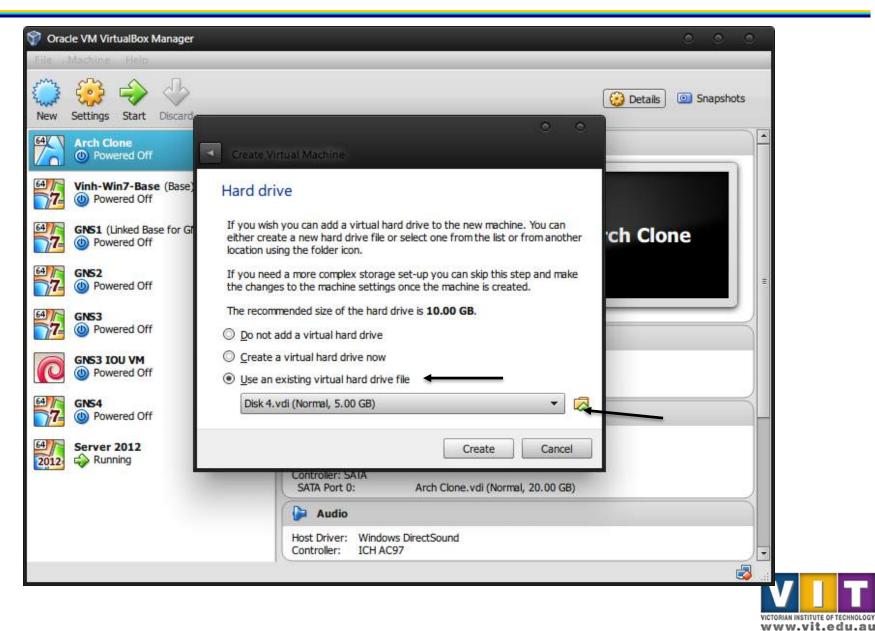
Make sure the Version is set to XP (32-bit).



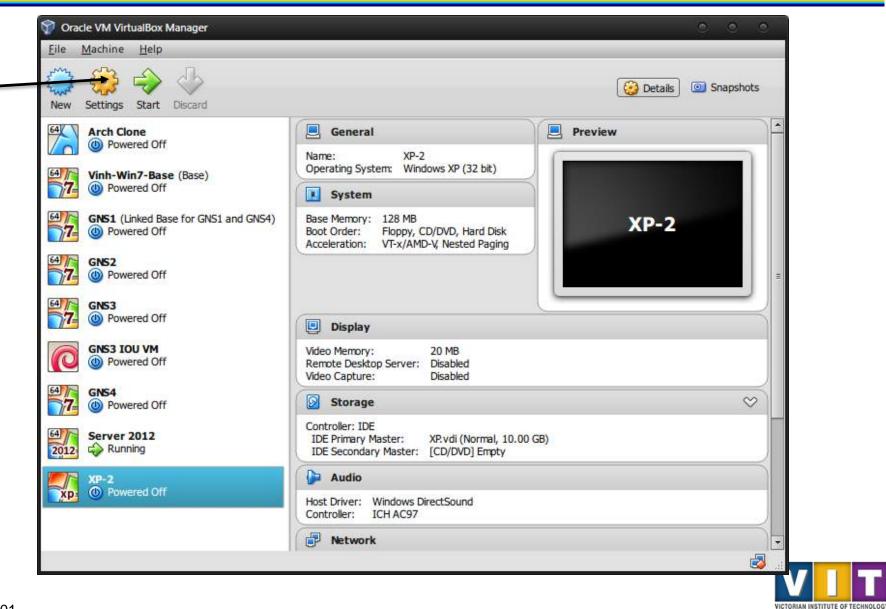
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Create Virtual Machine	1			
Memory size				
Select the amount of memo virtual machine.	ory (RAM) in megabyte	es to be allocate	ed to the	
The recommended memory	size is 192 MB.			
0			128	MB
4 MB		32768 MB	1	
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	Γ		6	-
		Next	Canc	ei





Organize - New folder			_	_	188	- 🔳	(
Equariter	Name	Date modified	Туре	Size			
<ul> <li>Favorites</li> <li>Desktop</li> <li>Downloads</li> <li>Recent Places</li> <li>Libraries</li> <li>Documents</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> <li>Computer</li> <li>usbshare1-3 (\\nas16</li> </ul>	Logs Snapshots XP.vdi	21/04/2016 7:48 PM 21/04/2016 7:47 PM 21/04/2016 9:49 PM Select XP.vdi fr	File folder File folder Virtual Disk Image	951,296 KB			
usbshare1-1 (\\NAS1) Local Disk (C:) setup (\\NAS16) (F:) movies (\\NAS16) (Y:) usbshare1-2 (\\nas16) Network							
File na	me:			•	All virtual hard drive	e files (*.vm Cancel	



🧕 General	Network	
System		
Display	Adapter 1 Adapter 2 Adapter 3 Adapter 4	
Storage	Enable Network Adapter	
🌽 Audio	Attached to: NAT 👻	
Network	Name:	
Serial Ports	Advanced	
DSB		
Shared Folders		

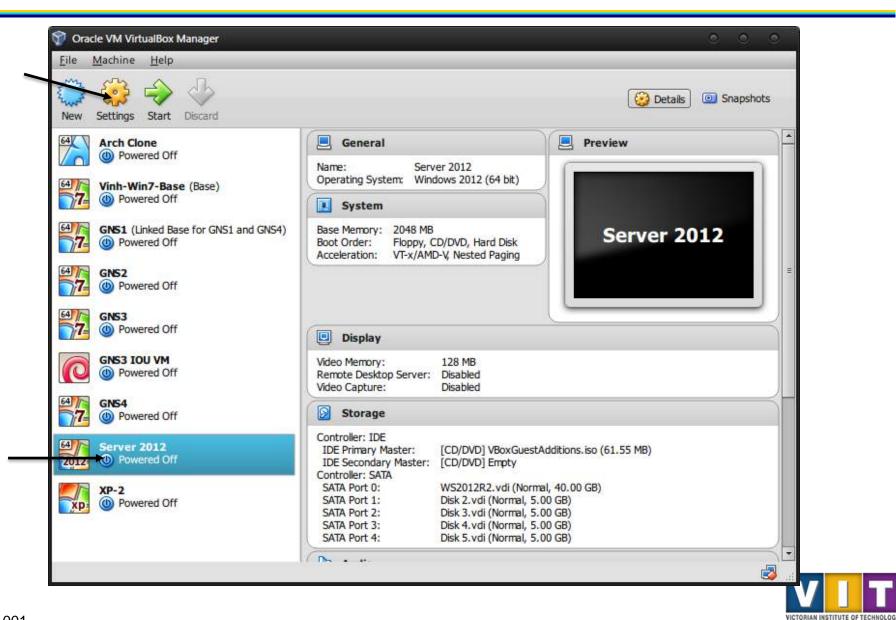


XP-2 - Settings		0 0
General	Network	
<ul> <li>System</li> <li>Display</li> <li>Storage</li> <li>Audio</li> <li>Network</li> <li>Serial Ports</li> <li>USB</li> <li>Shared Folders</li> </ul>	Adapter 1 Adapter 2 Adapter 3 Adapter 4	•
	OK Cancel	Help



 Go back and check if the installation and promotion of your Server to Domain Controller is finished. If it is, shut it down.





🧕 General	Network	
System		
Display	Adapter 1 Adapter 2 Adapter 3 Adapter 4	
Storage	Enable Network Adapter	
🌽 Audio	Attached to: NAT	
P Network	Name:	
Serial Ports	Advanced	
DSB		
Shared Folders		



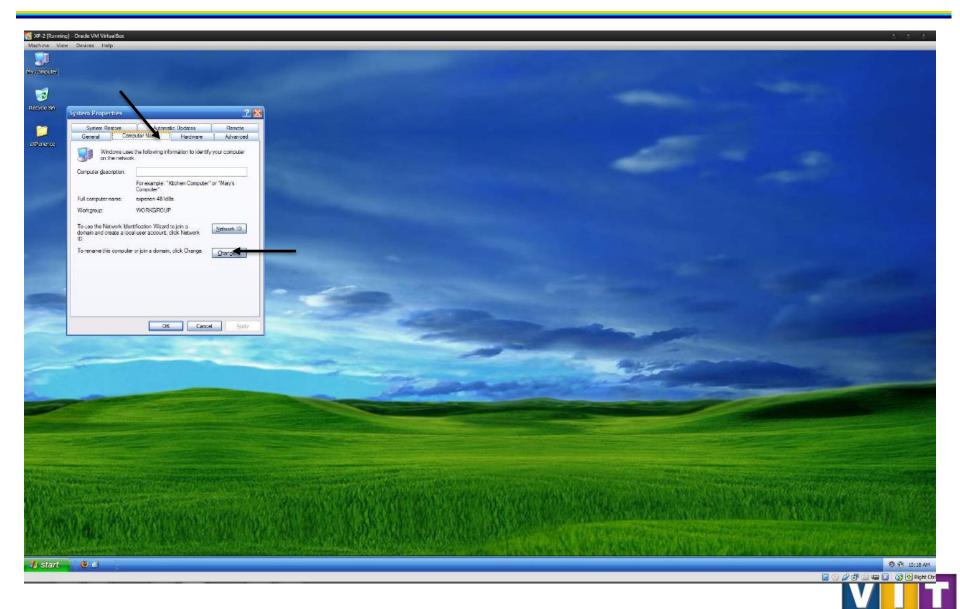
XP-2 - Settings		0 0
General	Network	
<ul> <li>System</li> <li>Display</li> <li>Storage</li> <li>Audio</li> <li>Network</li> <li>Serial Ports</li> <li>USB</li> <li>Shared Folders</li> </ul>	Adapter 1 Adapter 2 Adapter 3 Adapter 4	•
	OK Cancel	Help



- Start both the Server and Client boxes
- Join client to AD domain







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# Your assignment task for this week

- Record date, time
- Record all configuration updates you have made to the server during this practical tasks. Add screen shots to highlight the changes.

The screenshot should show your name/student ID

- Report any errors/warnings from the event viewer
- Record the server status at the time you have done everything e.g. running normally or any observable issues.

