

้คู่มือการติดตั้ง Active Directory และการ Configure Policy การใช้งานเบื้องต้น

การติดตั้ง Active Directory คู่มือการจัดการเครื่องแม่ข่าย

1. Click ปุ่ม Start / เลือกคำสั่ง Run / พิมพ์คำสั่ง dcpromo และ OK



Click ปุ่ม Next





3. Click Next

Directory Installation Wizard
erating System Compatibility Improved security settings in Windows Server 2003 affect older versions of Windows.
Domain controllers running Windows Server 2003 implement security settings that require clients and other servers to communicate with those domain controllers in a more secure way.
The following older versions of Windows cannot meet the new requirements:
Windows 95 Windows NT 4.0 SP3 or earlier
By default, computers running those versions of Windows will not be able to log on with a domain controller running Windows Server 2003 or access domain resources.
For more information, see <u>Compatbility Help</u> .
< Back

4. อยู่ที่หน้าจอ Domain Controller Type เลือก Domain controller for a new domain และ Next

ctive Directory Installation Wizard	×
Domain Controller Type Specify the role you want this server to have.	S.
Do you want this server to become a domain controller for a new dom additional domain controller for an existing domain?	ain or an
Domain controller for a new domain	
Select this option to create a new child domain, new domain tree, This server will become the first domain controller in the new dom-	. or new forest. ain.
C Additional domain controller for an existing domain	
Proceeding with this option will delete all local accounts on the second sec	nis server.
All cryptographic keys will be deleted and should be exported continuing.	d before
All encrypted data, such as EFS-encrypted files or e-mail, sho before continuing or it will be permanently inaccessible.	ould be decrypted
< Back Nex	t > Cancel



5. พิมพ์ชื่อ Domain ที่สร้างไว้ คือ SNC.co.th และ Next

Activ	e Directory Installation Wizard	×
N	Specify a name for the new domain.	
	Type the full DNS name for the new domain (for example: headquarters.example.microsoft.com).	
	<u>Full DNS name for new domain:</u>	
	cditnet.com	
-		
	< <u>B</u> ack <u>N</u> ext > Cancel	

6. Click ปุ่ม Next ใส่Domain NetBIOS name ชื่อ SNC

tive Directory Installation Wizard			
NetBIOS Domain Name Specify a NetBIOS name for the net	w domain.		A.
This is the name that users of earlier domain. Click Next to accept the na	versions of Windows me shown, or type a n	will use to identify the ew name.	new
Domain NetBIOS name:	DITNETO		
	< Back	Next>	Cancel



7. Click ปุ่ม Next

For best performance and recoverability, store the database and the log on separate hard disks. Where do you want to store the Active Directory database? Database folder: C:\WINDOWS\NTDS Where do you want to store the Active Directory log? Log folder: C:\WINDOWS\NTDS	atabase and Log Folders Specify the folders to contain the Active Directory	y database and log files.
Where do you want to store the Active Directory database? Database folder: C:\WINDOWS\NTDS Biowse Where do you want to store the Active Directory log? Log folder: C:\WINDOWS\NTDS Description Description Description Description Description	For best performance and recoverability, store the hard disks.	e database and the log on separate
Database folder: 3jowse C:\WINDOWS\NTDS 3jowse Where do you want to store the Active Directory log? 2course Log folder: 2course	Where do you want to store the Active Directory of	database?
C:\WINDOWS\NTDS 3powse Where do you want to store the Active Directory log? Log folder: C:\WINDOW/S\NTDS	Database folder:	
Where do you want to store the Active Directory log?	C:\WINDOWS\NTDS	Bīowse
C-W/INDOW/SWITDS 2rouse	Where do you want to store the Active Directory I	log?
	C:\WINDOWS\NTDS	Browse

8. Click ปุ่ม Next

specily the tolder to be shared as th	ne system volume.	10
The SYSVOL folder stores the serve of the SYSVOL folder are replicated	er's copy of the domain's public fi I to all domain controllers in the do	les. The contents
The SYSVOL folder must be located	d on an NTFS volume.	
Enter a location for the SYSVOL fol	der.	
Eolder location:		
C:\WINDOWS\SYSVOL		Browse



9. เลือกหัวข้อตามหน้าจอ และ Next

Acti	ve Directory Installation Wizard
J	DNS Registration Diagnostics Verify DNS support, or install DNS on this computer.
	Diagnostic Results
	The registration diagnostic has been run 1 time.
	None of the DNS servers used by this computer responded within the timeout interval.
	For more information, including steps to correct this problem, see <u>Help</u> .
	Details
	The SDA query for _Idaptcp.dcmsdcs.cditnet.com to find the primary DNS
	C I have corrected the problem. Perform the DNS diagnostic test again.
	Install and configure the DNS server on this computer, and set this computer to use this DNS server as its preferred DNS server.
	$\mathbb C$. I will correct the problem later by configuring DNS manually. (Advanced)
-	
	< <u>B</u> ack <u>N</u> ext> Cancel

10.เลือกหัวข้อตามหน้าจอ และ Next

Permissions		Ø
Select default permissions for user and	group objects.	19
Some server programs, such as Windor stored on domain controllers.	ws NT Remote Access Service, re	ead information
 Permissions compatible with pre-Wi 	ndows 2000 server operating syst	ems
Select this option if you run server p systems or on Windows 2000 or Wi members of pre-Windows 2000 dor	programs on pre-Windows 2000 se ndows Server 2003 operating sys nains.	erver operating tems that are
🛆 Anonymous users can read in	formation on this domain.	
 Permissions compatible only with W operating systems 	indows 2000 or Windows Server	2003
Select this option if you run server p Server 2003 operating systems that authenticated users can read inform	programs only on Windows 2000 o are members of Active Directory mation on this domain.	or Windows domains. Only



11.กำหนด Password และ Next

Type and confirm the passw when this server is started in	vord you want to assign to the Administrator account used n Directory Services Restore Mode.
The restore mode Administra account. The passwords loo both.	ator account is different from the domain Administrator r the accounts might be different, so be sure to remember
Restore Mode <u>P</u> assword:	•••••
<u>C</u> onfirm password:	•••••
For more information about (Directory Services Restore Mode, see <u>Active Directory Help</u> .

12. Click ปุ่ม Next

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Review and confir	m the options you selected.			
You chose to:				
Configure this serv	er as the first domain controlle	r in a new fore:	st of domain trees.	-
The new domain r	ame is cditnet.com. This is als	so the name of	the new forest.	
The NetBIOS nam	e of the domain is CDITNETO			
Database folder: 0 Log file folder: C:V SYSVOL folder: C:	:\WINDOWS\NTDS WINDOWS\NTDS \WINDOWS\SYSVOL			
The DNS service will be configured	will be installed and configured o use this DNS server as its p	d on this compu referred DNS s	iter. This computer erver.	
To change an opti	on, click Back. To begin the o	operation, click	Next.	_



13. ติดตั้ง Active Directory เรียบร้อยแล้ว ให้ Click ปุ่ม Finish และ Click ปุ่ม Restart Now

Active Directory Installation	on Wizard
The wizard is configuring Acti considerably longer, dependir	we Directory. This process can take several minutes or ng on the options you have selected.
Securing machine\software\c	classes
	Cancel

การตรวจสอบการติดตั้ง Active Directory

1. เปิด DNS และทำงานที่ชื่อ Domain จะมี Folder แสดงเพิ่มขึ้นมา

2. สร้าง User เพื่อทดสอบ และทดสอบจากเครื่องลูกข่ายโดยการเข้าใช้งานผ่านทาง Domain

***หมายเหตุ Check to Installation DNS Service and DNS Server



การติดตั้ง DNS Services

Install DNS Service >เลือก add or Remove Programs

idd or Rer	nove Programs		
5	Currently installed programs:	Sort by: Name	-
ange or	🜈 Adobe Flash Player 9 ActiveX		
ograms	Click here for support information.		
5	To change this program or remove it from your computer, click Change/Remove.	Chang	ie/Remove
dd <u>N</u> ew ograms	🐻 ATI Display Driver		
	📳 Intel(R) PRO Network Adapters and Drivers		
	Microsoft SQL Server 2000	Size	93.08MB
Remove	🔀 Microsoft SQL Server Desktop Engine (EPOSERVER)	Size	69.45ME
ponents	Q QuickTime	Size	3.53ME
20	SmartSound Quicktracks Plugin	Size	1,324.00MB
	💽 Ulead VideoStudio 8 SE	Size	164.00MB
	Mware Workstation	Size	79.80MB
	Windows Media Encoder 9 Series	Size	13.52MB
	🛃 Windows Server 2003 Hotfix - KB 883646	Size	0.36MB
	🛃 Windows Server 2003 Network Simulator	Size	603.00ME

Click เลือก Networking Services

ndows Components You can add or remove com	ponents of Windows.	
To add or remove a componert of the component will be Details.	ent, click the checkbox. installed. To see what's	A shaded box means that only included in a component, click
Components:		
🔲 貴 Management and Mo	onitoring Tools	5.9 MB 🔺
🗹 🛃 Networking Services		2.5 MB
🔲 貴 Other Network File a	nd Print Services	0.0 MB 🔜
🔲 🧾 Remote Installation 9	ervices	2.0 MB
Bemote Storage		35МВ 🗾
Description: Contains a vari Total disk space required: Space available on disk:	ety of specialized, netwo 9.8 MB 3074.4 MB	rk-related services and protocols.



Check Box to Network Service > Detail

- ·		
Sub <u>c</u> omponents of Network	ing Services: em (DNS)	1.6 MB
🔲 📇 Dynamic Host Confi	guration Protocol (DHCP)	0.0 MB
🗆 🧾 Internet Authenticat	ion Service	0.0 MB
🗆 📜 RPC over HTTP Pr	уху	0.0 MB
🗆 🤶 Simple TCP/IP Serv	ices	0.0 MB
🗆 🧕 Windows Internet N	ame Service (WINS)	0.9 MB
		2
Description: Sets up a DN names.	IS server that answers query and	d update requests for DNS
Total disk space required:	9.8 MB	Details
		E compart

Check Box to Domain Name System (DNS) > Ok

	nponency anzara
Configurii Setup	ng Components
Jocup	
6	Please wait while Setup configures the components. This may take several minutes, depending on the components selected.
2	
Status	Preparing for installation





Click Finish

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การ Create OU and User

1. เข้า Start Program -→ Open Active Directory User and Computer

Click ขวา เลือก to Domain Controller New OU



พิมพ์ชื่อ OU ที่ต้องการสร้าง

11

Ne	w Object ·	- Organizat	ional Unit	×
	3	Create in:	schq2.mi.th/	
	N <u>a</u> me:			
	mid.schq2	2.		
			ОК	Cancel



2. Create User ภายใต้ OU ที่ทำการสร้างขึ้น





ทำการ Setup Policies on Active Directory User and Computer

1. Setup Lock Wallpaper Active Desktop

คลิกขวาเลือก OU ที่เราทำการสร้างไว้ ---->Properties and New

📸 Eile Action View Favorites Window He	elp			
← → 🖻 🔃 👗 💼 🗙 😭	😫 🦉 🖉 🐌 🖓	7 🍕 🙍		
Console Root		Name 🛆	Туре	D
Active Directory Users and Computers [ibm306	.schq2.mi.th]	🕵 child	User	
E Saved Queries		🕵 j11	User	
E Schq2.mi.th		🕵 j12	User	
		😰 j13	User	
Computers Domain Controllers		💆 jaoon t. tapo	User	
		2 o	Organizational	
		🕵 ou1	Security Group	
User:				
terest DNS ™ove				
E Services (Loc				
New ►				
All Tas <u>k</u> s 🕨				
View				
New Window from Here				
New <u>T</u> askpad View				
Cut				
Delete				
Rename				
Refresh				
Export List				
Properties				
Help				

เลือก Create Name Group Policies > เลือก Edit

mid.schq2 Properties		? ×
General Managed By COM+ Group Policy		
Current Group Policy Object Links fo	or mid.schq2	
Group Policy Object Links	No Override	Disabled
SOU Group Policy Object		
Group Policy Objects higher in the list have the h This list obtained from: ibm306.schq2.mi.th	ighest priority.	
New Add Edit		Цр
Options Delete Properties		Down
		0.01111
□ <u>B</u> lock Policy inheritance		
OK	Cancel	Apply



จะเข้ามาที่ OU Group Policy Object

🚡 Group Policy Object Editor		
<u>File A</u> ction <u>V</u> iew <u>H</u> elp		
← → 🖬 🖆 🛱 😫		
 ← → II Policy Object [bm306.sc] OU Group Policy Object [bm306.sc] Computer Configuration Outer Configuration<td>Select an item to view its description.</td><td>D6.schq2.mi.th] Policy Name Computer Configuration</td>	Select an item to view its description.	D6.schq2.mi.th] Policy Name Computer Configuration
	Extended / Standard /	

Click ขวาเลือกที่ User Configuration >Administrator Template > Active Desktop

🚡 Group Policy Object Editor			
Eile Action View Help			
OU Group Policy Object [bm306.schq2.mi.th] Policy Group ter Configuration P Software Settings Windows Settings	Active Desktop Select an item to view its description.	Setting	State Enabled
Barringstrative templates Gottware Settings Gottware		에 Disable Active Desktop Disable all items 이 Prohibit changes 에 Prohibit adding items 에 Prohibit editing items 에 Prohibit editing items	Enabled Not configured Not configured Not configured Not configured
Desktop Active Directory Ortrol Panel Shared Folders Network		御 Frohibit Cosing items 第 Add/Delete items 第 Active Desktop Wallpaper 第 Allow only bitmapped wallpaper	Not configured Not configured Enabled Not configured
E- 🧰 System			
	Extended Standard		
🏄 Start 📗 🞯 👩 📗 🏦 Console 1 - [Console Ro	o 📸 Group Policy Object E	💱 6.bmp - Paint	📑 🛃 🚯 🔂 11:16 AM



ทำการ Setup Policy ดังนี้

>Enable Active Desktop	=	Enable
>Disable Active Desktop	=	Enable

>Active Desktop Wallpaper

I	🚔 Active Deskton		
	Active Desktop Wallpaper	Setting	State
		🛛 🕵 Enable Active Desktop	Enabled
	Display <u>Properties</u>	👔 Disable Active Desktop	Enabled
	Requirements:	😰 Disable all items	Not configured
	At least Microsoft Windows 2000	😭 Prohibit changes	Not configured
	De anvie bien a	👔 😰 Prohibit adding items	Not configured
	Description: Specifies the desktop background	👔 Prohibit deleting items	Not configured
	("wallpaper") displayed on all users'	👔 Prohibit editing items	Not configured
	desktops.	👔 Prohibit closing items	Not configured
	This setting lets you specify the	🚰 Add/Delete items	Not configured
	wallpaper on users' desktops and	Active Desktor	Enabled
	prevents users from changing the	Allow only bitr	Not configured
	mage or its presentation. The wallpaper you specify can be stored	Help	
	in a bitmap (*.bmp), JPEG (*.jpg), or		
	HTML (*.htm, *.html) file.		
	To use this setting, type the fully		
	gualified path and name of the file		
	that stores the wallpaper image. You		
	can type a local path, such as		
	or a LINC path, such as		
	\\Server\Share\Corp.jpg. If the		
	specified file is not available when the		
	i user logs on, no wallpaper is displayed. Users cannot specify		

Enable

=

คลิกขวาที่ Active Desktop wallpaper > Properties

Active Desktop Wallpaper Properties	? ×
Setting Explain	
😭 Active Desktop Wallpaper	
O Not Configured	
• Enabled	
© Disabled	
Example: Using a local path: C:\windows\web\wallpaper\home.jpg Example: Using a UNC path: \\Server\Share\Corp.jpg Wallpaper Style: Stretch	
Supported on: At least Microsoft Windows 2000	
Previous Setting Next Setting	
OK Cancel App	ylc

ทำการชี้ Path : \\ip server\share folder\name picture > Ok



ทำการ Setup password Polices ให้กับ User ว่าต้องการให้ password หมดอายุภายในกี่วัน/ความ ยาวกี่ตัวอักษร

- > Computer Configuration
 - > Windows setting
 - > Security setting
 - > Account Policies



Click เลือก Password Policies > ทำการตั้งค่า Password ต่างๆ

- > Maximum password age
- > Minimum password age
- > Minimum password length





🚰 Group Policy Object Editor			
Elle Action View Help			
← → 🖻 🔳 🗙 😭 🖳 😫			
🛐 OU Group Policy Object [ibm306.schq2.mi.th] Policy	Policy A	Policy Setting	
🔄 🔜 Computer Configuration	Enforce password history	Not Defined	
⊡ Software Settings	Maximum password age	30 days	
Windows Settings	🐯 Minimum password age	1 days	
Scripts (Startup/Shutdown)	🐯 Minimum password length	8 characters	
	Beassword must meet complexity requirements	Enabled	
	Store passwords using reversible encryption	Disabled	
Tassword Folicy			
🗄 🧰 System Services			
🕀 🧰 Registry			
🕀 🤷 File System			
😟 🍟 Wireless Network (IEEE 802.11) Policie			
🕀 💼 Public Key Policies			
🕀 🚞 Software Restriction Policies			
⊡ - 3 IP Security Policies on Active Directory			
Administrative Templates			
🖻 👯 User Configuration			
Software Settings			
Windows Settings			
Administrative Templates			
Windows Components			
Shared Folders			
T Network			
🗄 🛅 System			
	-		

3. Setup Account Lockout policies เป็นการกำหนด จำนวนครั้งในการ Login user เข้าใช้งานหากเกิน จำนวนครั้งที่กำหนด user จะถูก lock และ จะสามารถเข้าใช้ได้อีกครั้งภายในกี่นาที

- > Account lockout duration
- > Account lockout threshold
- > Reset account lockout counter after





- 4. Backup and Restore Users/Policies
 - > click เลือก Start >all programs >Accessories >system tool > Backup



เลือก click ที่ Always start in wizard mode

Backup or Restore Wizard	and the second	×
	Welcome to the Backup or Restore Wizard	
	This wizard helps you back up or restore the files and settings on your computer.	
T	If you prefer, you can switch to <u>Advanced Mode</u> to change the settings used for backup or restore. This option is recommended for advanced users only.	
	Always start in wizard mode	
	To continue, click Next.	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Click next



kup or Restore Wizard		
What to Back Up You can specify the items you want to ba	ck up.	10
What do you want to back up?		
All information on this computer		
Includes all data on this computer, an can be used to restore Windows in th	id creates a system recovery disk ie case of a major failure.	. that
Let me choose what to back up		
	< <u>B</u> ack <u>N</u> ext >	Cancel

Click เลือก Let me choose what to back up ไฟล์ที่จะทำการ Backup

ckup or Restore Wizard			
What to Back Up You can specify the items you want to ba	ack up.		1
What do you want to back up?			
O All information on this computer			
Includes all data on this computer, a can be used to restore Windows in t	nd creates a syste he case of a majo	em recovery disk th r failure.	at
Let me choose what to back up			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Click next



Check Box > เลือกที่ System State

Items to Back Up	of drives folders or file	ae	F
Double-click an item on the left box next to any drive, folder, or	to see its contents on file that you want to ba	the right. Then select the r ack up.	check
Items to back up:	Name My Computer My Documer My Documer Outl Outl My Documer Support Support My Network I	Comment ts c bkf Places	
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Click Next > Select Browse ที่เก็บ file Backup > click next

kup Type, Destination, and Name Your files and settings are stored in the de	estination you specify.		10
Select the backup type:			
File	-		
Choose a place to save your backup:			
C:\Documents and Settings\Administrate	or IBM306\Deskto	Browse	
Type a name for this backup:			
system state			





Click finish รอทำการ backup file

ackup Progre	55	?
	B	
Drive:	System State	
Label:	system state.bkf created	d 11/13/2007 at 10:26 A
Status:	Backing up files from yo	ur computer
Progress:		
	Elapsed:	Estimated remaining:
Time:	16 sec.	1 min., 32 sec.
Processing:	System State\\IME\IM	4JP8_1\dicts\imjpzp.dic
	Processed:	Estimated:
Files:	223	2,906
	00444.505	004.050.040



Active Directory Installation Wizard
The wizard is configuring Active Directory. This process can take several minutes or considerably longer, depending on the options you have selected.
Securing machine\software\classes
Cancel

รอจนกว่าจะทำการ Backup จนเสร็จ แล้วทำการ Restart





วิธีการ Restore Backup Users/Policies

เลือกที่ Advance Mode

Backup or Restore Wizard	×
	Welcome to the Backup or Restore Wizard
	This wizard helps you back up or restore the files and settings on your computer.
JOI	If you prefer, you can switch to <u>Advanced Mode</u> to change the settings used for backup or restore. This option is recommended for advanced users only. Always start in wizard mode
	To continue, click Next.



Click Advance Mode > click เลือก Restore Wizard



Click next





Browse File Backup ที่ทำการ Backup ไว้ > Click เลือก Ok

Backup Util Job Edit Viev	ity - [Restore and Manage M v <u>T</u> ools <u>H</u> elp	ledia]	<u>-0×</u>
Welcome R	estore Wizard		×
	What to Restore You can restore any combi	ination of drives, folders, or files.	tions:
	Double click an item or check box next to any Items to restore:	the left to see its contents. Then select the drive, folder, or file that you want to restore.	
	File	Backup Identification Label Med	
	Ope	en Backup File ?	×
		Dpen: ettings\Administrator.IBM306\Desktop\system state.bk	•
		OK Cancel <u>B</u> rowse	Restore
_	92 		

Check Box System state > Next

Restore Wizard		×
What to Restore You can restore any combination o	of drives, folders, or files.	1
Double click an item on the left check box next to any drive, fo Items to restore:	to see its contents. Then select the Ider, or file that you want to restore.	Browse
	Backup Identification Label	Mer
È⊷ I system state.bkf crea I System State I System State I System State I System State	🔲 🖬 system state.bkf created 11/13/	2007 at C:\I
	4	
	< <u>B</u> ack <u>N</u> ext >	Cancel



Active Directory Installation Wizard
The wizard is configuring Active Directory. This process can take several minutes or considerably longer, depending on the options you have selected.
Securing machine\software\classes
Cancel



Click Finish -→Restart

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