

MỤC LỤC

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1 Triển khai hệ thống Domain

Sau khi học bài này học sinh viên có khả năng nâng cấp một máy Windows Server 2016 thành một máy Domain Controller, giúp các máy con gia nhập vào hệ thống domain mà ta đã nâng cấp

- Chuẩn bị: + Một máy server 2016 + Một máy Client windows 7
 Mô hình
 Domain Controller
 192.168.1.2
 192.168.1.3
 192.168.1.3
 192.168.1.4
 Kết quả đạt được
 Mốu client icin việc domain đặn thì khoản ở ADDS trất
 - Máy client join vào domain, đăng nhập tài khoản ở ADDS trên máy client
 - Thực hiện
 - Khi đặt địa chỉ IP cho Server thì phải trỏ DNS về chính Server vì nó sẽ là nơi để phân giải tên miền mà ta sẽ sử dụng trong quá trình nâng cấp domain

Internet Protocol Version 4 (TCP/IPv	4) Properties ×
General	
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.	omatically if your network supports to ask your network administrator
Obtain an IP address automatic	ally
• Use the following IP address:	
IP address:	192.168.1.1
Subnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server address auto	omatically
• Use the following DNS server ad	ldresses:
Preferred DNS server:	192.168.1.1
Alternate DNS server:	
Validate settings upon exit	Advanced
	OK Cancel

Hình 12-1: Đặt IP cho Server Domain

Select server ro	les	DESTINATION SERVER R1
Before You Begin Installation Type Server Selection	Select one or more roles to install on the selected server. Roles	Description Active Directory Domain Services
Server Roles Features Confirmation Results		(AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.

Hình 12-2: Cài dịch vụ ADDS

Server Manager	anager • Dashboard	• © M	- Di X Manage Tools View Help
Image: Control of the second seco	WELCOME TO SERVER MANAGE	Post-deployment Configura IASKS X Configuration required for Active Directory Domain Services at R1 Promote this server to a domain controller feature installation Configuration required. Installation succeeded on R1. Add Roles and Features Task Details Connect this server to cloud services stotal: 1 I I I I I I I I I I I I I I I I I I	Hide

Hình 12-3: Cài Domain

Active Directory Domain Service	es Configuration Wizard			<u></u>		×
Deployment Configuration Domain Controller Options Additional Options Paths Review Options Prerequisites Check Installation Results	Select the deployment opera Add a domain controller Add a new domain to an Add a new forest Specify the domain informat Root domain name:	ation to an existing don existing forest tion for this operat news	nain ion :tar.vn	 TAR	GET SEF	IVER R1
	More about deployment cor	nfigurations				

Hình 12-4: Nhập tên domain

Quá trình nâng cấp domain đã xong, ta tiến hành tạo tài khoản trên domain

Hình 12-5: Tạo tài khoản trên domain

D Đặt Ip trên máy client, trỏ DNS về Domain Controller

Network Connection Details				
Network Connection Details:				
Property	Value			
Connection-specific DN				
Description	Intel(R) PRO/1000 MT Network Connecti			
Physical Address	00-0C-29-C1-9B-B9			
DHCP Enabled	No 102.100.1.2			
IPv4 Address	192.168.1.2			
IPv4 Subriet Mask	200.200.200.0			
IPv4 DNS Server	192.168.1.1			
IPv4 WINS Server				
NetBIOS over Tcpip En	Yes			
Link-local IPv6 Address	fe80::6c46:4607:af15:8828%11			
IPv6 Default Gateway				
IPv6 DNS Server				
	···· P			
	Close			

Hình 12-6: Đặt IP trên máy Client

□ Tiến hành gia nhập domain, nhập phải chuột vào My computer chọn vào Property □ change setting □ Change, check mục Domain nhập tên domain vào. Sau đó có thông báo yêu cầu nhập tài khoản bên Domain, Nhập tài khoản administrator

🖉 💭 🖓 🕨 Control Panel 🕨	System and Security System	•	Search Control Panel	
Con System Properties Computer Name/Domai	Changes II vote pmput	ter		
Rem Computer. Changes might More information	fect access to network Windows Security Computer Name/Domain	Changes		
Computer name: Win7-PC	Enter the name and password of domain.	an account with permission to join the		\mathcal{H}
Full computer name: Win7-PC	administrator			9.
Member of Omain:	Domain: newstar	r.vn		
Workgroup:		OK Cancel		
WORKGROUP	OK Cancel as	is available for this Display	-	
	OK Cancel Apply		ଞ	Change settings
	Workgroup: WORKGROUP			
	Windows activation			
See also Action Center Windows Update	Windows is activated Product ID: 00426-OEM-8992662-00173		Le	Ask for Microsoft software
Performance Information and Tools				

Hình 12-7: Nhập tài khoản trên domain



Hình 12-8: Đăng nhập tài khoản hiepdh

□ Thực hiện gia nhập Domain trên máy windows 8

Network Connection Deta	ils X
Network Connection Details:	
Property	Value
Connection-specific DN	
Description	Intel(R) 82574L Gigabit Network Connect
Physical Address	00-0C-29-B8-B0-FD
DHCP Enabled	No
IPv4 Address	192.168.1.3
IPv4 Subnet Mask	255.255.255.0
IPv4 Default Gateway	
IPv4 DNS Server	192.168.1.1
IPv4 WINS Server	
NetBIOS over Tcpip En	Yes
Link-local IPv6 Address	fe80::e929:cfa1:97bb:872e%3
IPv6 Default Gateway	
IPv6 DNS Server	
<	>
	Close
	0,000

Hình 12-9: Đặt IP trên máy Client

* 🛧 *	> Quick access			✓ O Search Quick access	
Duick access	🔛 System			- 🗆 X	
Desktop	← → × ↑ 🛂 > Contr	ol Panel → System and Security → System	✓ [™] Sea	arch Control Panel 🔎	
Downloads	System Properties	×		0	
Documents	Computer Name/Domain Ch	anges × mote it	your computer		
Pictures	X I II II				
Music	You can change the name and computer. Changes might affect	Windows Security	×		
Videos		Computer Name/Domain Changes	5	dows10	
neDrive	Computer name:	Enter the name and password of an account	with permission to join the		
his DC	DESKTOP-D7I0TUD	domain.			
nis PC	Full computer name:			Hz 3.59 GHz	
etwork	DESKTOP-D7I0TUD	hiepdh			
		Q		cessor	
	Member of			his Display	
	Domain: Dewstar.vn	Domain: newstar.vn			
				Change settings	
	WORKGROUP		OK Cancel		
	Γ	OK Cancel	JROUP		
		OK Cancel Apply	rosoft Software License Terms		
		Product ID: 00331-10000-00001-AA	978	Change product key	
	See also				
	Security and Maintenance				

Hình 12-10: Đăng nhập tài khoản hiepdh trên domain





□ Sau khi gia nhập xong vào máy Domain ta sẽ thấy các máy client đã gia nhập

Active Directory Users and Computers - C X					
File Action View Help					
🗢 🔿 📶 📋 📴 🕢 😹 🔟 📷 🔧 🐮 🍸 💆 🗞					
Action View Heip Active Directory Users and Com Saved Queries Image: Saved Queries <					

Hình 12-12: Các máy Join domain

2. Bảo mật ADDS và tài khoản người dùng

Sau khi học bài này học viên có thể tạo các đối tượng như OU, Group, User bằng giao diện và bằng dòng lệnh

- □ Chuẩn bị:
 - □ Một máy server 2016 đã lên DC
 - □ Một máy Client windows 7
- □ Mô hình



□ Tạo OU, Group, User bằng giao diện



Hình 13-1: Tạo Group

New Object - Group	×
🤼 Create in: newstar	.vn/
Group name:	
ketoan	
Group name (pre-Windows 2000):
ketoan	
Group scope	Group type
O Domain local	Security
Global	ODistribution
OUniversal	
	OK Cancel
	OK Cancel

Hình 13-2: Định nghĩa Group

	Type Type Type dministrator User User ulowed RO Security Group derablish Security Group derableD Security Group derableD Security Group derableD Security Group nsb4dmins Security Group nsb4dmins Security Group tomain Ad Security Group tomain Co Security Group tomain Co Security Group tomain Co Security Group tomain Co Security Group tomain Loss Security Group tomain User Security Group tomain User Security Group tomain User Security Group tomain User Security Group terp Figid	Description Built-in account for ad Members of this group c Members of this group Discription DNS clients who are per Designated administrator All domain controllers i All domain users Interview administrator rs of this group		
Image: Source Directory Users and Com Name > Image: Source Outputers Add > Image: Domain Controllers Add > Image: Domain Controllers Add > Image: Domain Controllers Add Image: Domain Controllers Add Image: Domain Controllers Add Image: Domain Controllers Image: Domain Controllers Image: Domain Controller	ne Type dministrator User ullowed RO Security Group ter Publish Security Group ter Publish Security Group ter Suthacco User insUpdate D Security Group insUpdate P Security Group tomain Ad Security Group tomain Co Security Group tomain Co Security Group tomain Co Security Group tomain Leser Security Group tomain Users Security Group tomain Users Delegate Control terp Find	Description Built-in account for ad Members in this group c Members of this group t A user account manage Members in this group t Difference D		
趣 RAS 趣 Rea 趣 Sch	nterp iroup New Urest All Tasks tiep C Refresh ey Ac Export List AS ar View ead-r Line up Icons Properties Help	Computer Computer Contact Group InetOrgPerson msD5-KeyCredential msD5-ShadowPrincipalContainer msImaging-PSPs MSMQ Queue Alias Printer		
		User		
		Shared Folder		

Hình 13-3: Tạo User

New Object - User		>
🧏 Create in: ne	wstar.vn/Users	
Password:	•••••	
Confirm password:	•••••	
User must change pas	sword at next logon	
User cannot change p	assword	
Password never expire	3	
Account is disabled		
	< Back Next >	Cancel

Hình 13-4: Nhập password với chính sách thay đổi pass ở lần đăng nhập đầu tiên



Hình 13-5: Yêu cầu đổi Password ở máy Client

New Object - User		×
🧏 Create in: newsta	ar.vn/Users	
Password:	••••••	
Confirm password:	•••••	
User <u>m</u> ust change password	d at next logon	
User cannot change passw	ord	
Pass <u>w</u> ord never expires		
Account is disabled		
	< <u>B</u> ack <u>N</u> ext >	Cancel

Hình 13-6: Chọn chính sách không cho đổi Password



Hình 13-7: Không cho đổi Password

New Object - User			×
Create in: newstar.vn/	Users		
Password: Confirm password:	••••		
User <u>m</u> ust change password at n	ext logon		
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Hình 13-8: Password không hết hạn



Hình 13-9: Đổi Password

New Object - User		×
Create in: newstar.v	/n/Users	
Password:	•••••	
Confirm password:	•••••	
User must change password a	at next logon	
User cannot change password	ł	
Pass <u>w</u> ord never expires		
Account is disabled		
	< <u>B</u> ack <u>N</u> ext >	Cancel

Hình 13-10: Tài khoản vô hiệu hóa



Hình 13-11: Tài khoản đã vô hiệu hóa

Action View Help
ve Directory Users and Com Saved Queries newstar.vn Builtín Computers Domain Controllers ForeignSecurityPrincipal Managed Service Accou Users

Hình 13-12: Đưa tài khoản vào group

Nhansu Properties			?	×
General Members	Member Of	Managed By		
Members:				
Name	Active Dire	ctory Domain Services Fol	der	
<u>8</u> u2	newstar.vn	/Users		
Add	Remove			
		OK Cancel	Ap	ply

Hình 13-13: Tài khoản đã đưa vào Group

Active Directory Users and Comp	uters					-	Ø	\times
File Action View Help								
🗢 🔿 🙍 📅 🤾 🗎 🗙 🛙	1 🖬 🔒 🛙 🖬	1 🕺 🐮 🤋	7 🗾 🐍					
 Active Directory Users and Com Saved Queries Sinewarxini Builtin Computers ForeignSecurityPrincipal Managed Service Accour Users 	Name Computers Computers Computers Domain Com ForeignSecu Vanaged Se Vanaged Se ketoan	Type builtinDomain Container Organizational Container Container Security Group Security Group	Descriptio Default c Default c Default c Default c	n ketoan Properties Select Users, Contacts, Computers, Service Accounts, Select this object type: Users, Service Accounts, Groups, or Other objects From this location: Inevator vn Erter the object names to select (examples): u1 ful@newatar.vn] Advanced Add Remove OK Cancel	? or Groups	X Object Types Locations Oneck Names Cancel		
								_

Hình 13-14: Add tài khoản vào group

Active Directory U	Users and Computers		_	٥	×
File Action View	w Help				
🗢 🔿 🔁 📰	📋 🖾 🗟 📓 🚮 🖏	🤽 📷 🔻 🔟			
 Active Directory Saved Querie Rewstar vn Buit Con Don Fore Mar Use 	Users and Com 5 Delegate Control Find Change Domain Controller Raise domain functional level	Type Description builtinDomain iner Default container for up iner Default container for do iner Default container for sec iner Default container for ma iner Default container for up ty Group			
	Operations Masters	ty Group			
	New All Tasks View Refresh Export List Properties Help	Computer Contact Contact Group InetOrgPerson ms/bcs/shadowPrincipalContainer ms/maging-PSPs MSMQ Queue Alias Organizational Unit Printer User Shared Folder			
< Create a new object	>				

Hình 13-15: Tạo OU

New Object - Organizational Unit	×
Create in: newstar.vn/	
Name:	
Truong phong	
Protect container from accidental deletion	
OK Cancel Help	1

2 Bảo mật ADDS và tài khoản người dùng

- □ Chuẩn bị:
 - $\hfill\square$ Một máy server 2016 đã lên DC
 - □ Một máy Client windows 7
- Mô hình



- Diều chỉnh chính sách lưu lại password còn 2 ngày
- D Điều chỉnh chính sách tuổi thọ tối đa password còn 10 ngày
- D Điều chỉnh chính sách tuổi thọ nhỏ nhất password còn 1 ngày
- Thực hiện

Trong GPO mặc định này có 2 chính sách là Default Domain Controller Policy (Chính sách này áp dụng cho DC), Default Domain Policy (Áp dụng cho toàn hệ thống)



Hình 14-1: Các GPO mặc định

□ Mặc định trên DC không cho User (chỉ cho Administrator). Ta tiến hành điều chỉnh cho DC sao cho User vẫn đăng nhập bình thường

📓 Group Policy Management									- 0	×
📓 File Action View Wind	dow Help									- 8 ×
🗢 🄿 🖄 📰 🛤 🗎 💙	🕻 🖸 🚺 🖬									
Group Policy Management ✓ ▲ Forest: newstar.vn ✓ ➡ Domains ✓ ➡ Default Domain > ➡ Domain Contr > ➡ Domain Contr = ➡ Control = ➡ Domain Contr = ➡ Domain Control = ➡ Domain Control =	in Policy ollers Dbjects main Controllers Policy Edit	Defaul Scope Links Display The foll Locat	t Doma Details links in th owing site ion omain Con	s location: s, domains, trollers	rollers Delegation and OUs	Policy Status newstar.vn are linked to th	his GPO: Enforced No	Link Enabled Yes	Path	∽ n/Doma >
> 🕞 WMI Filte > 🧊 Starter GP > 📬 Sites 🐉 Group Policy Mo 😭 Group Policy Res	GPO Status Back Up Restore from Backup Import Settings Save Report	>	t y Filteri ings in th	ng is GPO can id Users	only apply	to the followi	ng groups, use	ers, and computers:		
Open the GPO editor	View New Window from Here Copy Delete Rename	>	Add iltering °O is linke	ed to the foll	Remov	e 11 filter:	Properties	0		

Hình 14-2: Chỉnh sửa GPO

• 🔿 🙍 📷 🗶 🖼 📑 🛛 🖬		
	Policy Policy Access Credential Manager as a trusted caller Access this computer from the network Act as part of the operating system Add workstations to domain Adjust memory quotas for a process Allow log on through Remote Desktop Services Back up files and directories Bypass traverse checking Change the system time Change the time zone Create a pagefile Create a polyeite Create global objects Create permanent shared objects Create permanent shared objects Create symbolic links Debug programs Deny log on as a batch job Deny log on as a service Deny log on locally Denv log on through Remote Desktop Services	Policy Setting Not Defined Everyone, Adm Not Defined Authenticated LOCAL SERVIC Administrators Everyone, LOC, LOCAL SERVIC Not Defined Administrators Not Defined Not Defined

Hình 14-3: Chỉnh sửa đăng nhập local

Allow log on locally Properties	?	\times
Security Policy Setting Explain		
Allow log on locally		
Define these policy settings:		
Account Operators Administrators Backup Operators ENTERPRISE DOMAIN CONTROLLERS Print Operators Server Operators		
Add User or Group Remove		
Add User or Group		×
User and group names users	Browse	
ОК	Cancel	

Hình 14-4: Add group Users



Hình 14-5: Tài khoản không đăng nhập được trên DC

Allow log on locally Properties	?	\times
Security Policy Setting Explain		
Allow log on locally		
Define these policy settings:		
Account Operators Administrators Backup Operators ENTERPRISE DOMAIN CONTROLLERS Print Operators Server Operators		
Add User or Group Remove		
Add User or Group	×	
User and group names u1 Bro	wse	
ОКС	ancel	

Hình 14-6: Add user u1



Hình 14-7: Cập nhật chính sách

		Windov	vs PowerS	hell	Ý
		Windov	vs Server I	Essentials	~
8		Windov	vs System		Ý
ŝ					
Φ					
Ŧ	Q	[]]	Ξ	e	=

Hình 14-8: U1 đăng nhập trên DC

Hiệu chỉnh chính sách Password sẽ áp dụng cho tất cả các tài khoản trong hệ thống

📓 Group Policy Management					×
📓 File Action View Window Help				- 6	7 ×
🗢 🔿 🙍 🔚 🗎 🛛 🗙 🗖 🖬					
Group Policy Management A Forest: newstar.vn A Forest: newstar.vn Default Domain Policy Default Domain Policy Default Controllers Default Controllers Default Controllers Gi kinhdoanh Group Policy Objects	efault Domain Policy cope Details Settings Delegation Stat inks bisplay links in this location: newsta he following sites, domains, and OUs are linke Location provide the state of t	ar.vn ked to this GPO: Enforced No	Link Enabled Yes	Path newstar.vn	~
Cefault Domain Controllers Policy Default Domain Deliav Default Default Default Seffect GP State GP GPD Status	<				>
> 🙀 Sites	ings in this GPO can only apply to the f	following groups, use	rs, and computers:		
View New Window from Here Copy Dolate	Add Remove ittering 20 is linked to the following WMI filter:	Properties	0		
Open the GPO editor Rename					

Hình 14-9: Chỉnh sửa trên Default Domain Policy



Hình 14-10: Chỉnh lại số lượng Password nhớ là 2 ngày



Hình 14-11: Đổi lại Password cũ không thành công



Hình 14-12: Yêu cầu thời gian tối đa dồi password là 10 ngày



Hình 14-13: Yêu cầu đổi Password



Hình 14-14: Thời gian tối thiểu là 1 ngày



Hình 14-15: Không được đổi Password

D Điều chỉnh các chính sách còn lại

3 Quản trị chia sẻ và phân quyền

Sau khi học bài này học viên có khả năng chia sẻ và phân quyền các folder cho các user trong hệ thống với những chức năng mở rộng của NTFS

- □ Chuẩn bị:
 - $\hfill\square$ Một máy server 2016 đã lên DC
 - □ Một máy Client windows 7
- Mô hình



- Lấy quyền lại cho admin khi bị NS2 xóa bỏ
- Thực hiện



Tạo 2 tài khoản NS1 và NS2 thuộc group NS và 2 tài khoản KT1, KT2 thuộc group KT

- a) Thực hiện việc gán quyền như hình trên
- b) Trong Folder DataKeToan, không cho tài khoản KT1 truy xuất
- c) Tạo 2 Folder con trong DataNhanSu bằng tài khoản NS1, đăng nhập bằng NS2
- d) Xóa 1 Folder mà NS1 vừa tạo, sau đó tạo 2 folder cùng cấp với folder vừa xóa
- e) Thiết lập nguyên tắc "Không xóa dữ liệu của người khác"

f) Dùng Ns2 để loại bỏ hoàn toàn các tài khoản khác trên folder vừa tạo (bao gồm Administrators, System vv...)

g) Dùng Administrator để lấy lại quyền owner trên folder mà Ns2 đã thiết lập.

□ Thực hiện chia sẻ tất cả mọi người với quyền Full Control

💺 l 🖪 📃 = l tora	Diek (C								_	
File Home	Share	View								~ 🧟
← → • ↑	> This	PC → Lo	cal Disk (C:)					× ē	Search Local Disk (C:)	Q
		Name	^ ^		Date modified	Type	Size	• 0	Search Ebear Disk (c.)	~
📌 Quick access					0.04.0047.44.00.444			-		
Desktop	*	Data	Data Propertier		8/31/2017 11:09 AM	File folder				
👆 Downloads	*	Pro				rolder				
Documents	*	Pro	Advanced Sharing	🖡 Per	missions for Data			×		
Pictures	*	📙 Use	Share this folder	Share i	Permissions					
This PC		- Wir	Settings	Group	o or user names:					
- Network			Share name:	52	Everyone					
INELWORK			Data							
			Add Remove							
			Limit the number of simulta							
			Comments:			Add	Hemove			
				Permi	ssions for Everyone	Allow	Deny			
				Ful	I Control					
			Permissions Cac	Re	ange ad					
			ОК							
			ок		OK	Cancel	Apply			
6 items 1 item sele	ected									

Hình 15-1: Share folder Data Everyone quyền FC

□ Gõ bở kế thừa: Security □advanced □Change pemission □Disible inherited □convert inherited

→ • ↑ ≒ י	This PC → Lo	cal Disk (C:)				1	~ Č	Search Local Disk (C:)	م
Quick access Desktop	Advanced Se	ecurity Settings for I	Data	Date modified	Туре	Size	-		
Downloads Data Properties	Name: Owner:	C:\Data Administrators (NEWSTAR\Admir	nistrators) 🛛 🌍 Change	2				
General Sharing	Permissions	Share	Auditing	Effective Access					
Group or user nam	For additional Permission er	l information, doub ntries:	le-click a <u>permiss</u> Block	ion entrv. To modifv a Inheritance	permission entry.	elect the entry an	d click Edit (if av	ailable). ×	
Administrators	Type Allow Allow	Principal SYSTEM Administrators (NE		What would you You are about to bl inherited from a pa	ou like to do w ock inheritance to irent object will no	ith the curren this object, which longer be applied	t inherited per means that perr to this object.	ermissions? nissions	
Permissions for Us Full control	Allow Allow R Allow Allow	Users (NEWSTAR\U Users (NEWSTAR\U CREATOR OWNER	Jsers) Jsers)	→ Convert in this object	nherited permi t.	ssions into ex	plicit permis	sions on	
Read & execute List folder conte	Add	Remove	View	\rightarrow Remove a	II inherited pe	rmissions fror	m this object		
Read Write	Disable inh	heritance	, iciv					Cancel	
For special permiss click Advanced.	Replace all	child object permis	sion entries with i	inheritable permission	entries from this o	bject			
	ОК	Cancel	Apply			ОК	Cancel	Apply	

Hình 15-2: Xóa bỏ kế thừa

 $\hfill\square$ Tiến hành xóa group users, thêm nhóm KT và NS

Permissions for Data		×
Security		
Object name: C:\Data		
Group or user names:		
SCREATOR OWNER		
SYSTEM		
Administrators (NEWSTAR\A	dministrators)	
	Add	Remove
	Add	Remove
Permissions for Administrators	Add Allow	Remove Deny
Permissions for Administrators	Add Allow	Remove Deny
Permissions for Administrators Full control Modify	Add Allow	Remove Deny
Permissions for Administrators Full control Modify Read & execute	Add Allow M	Remove Deny
Permissions for Administrators Full control Modify Read & execute List folder contents	Add Allow 9 9	Remove Deny
Pemissions for Administrators Full control Modify Read & execute List folder contents Read	Add Allow	Remove Deny
Permissions for Administrators Full control Modify Read & execute List folder contents Read	Add Allow V V V	Remove Deny
Permissions for Administrators Full control Modify Read & execute List folder contents Read	Add Allow 9 9 9 9	Remove Deny C ^ C C C C C C C C C C C C C C C C C C
Permissions for Administrators Full control Modify Read & execute List folder contents Read	Add Allow V V V V	Remove Deny
Permissions for Administrators Full control Modify Read & execute List folder contents Read OK	Add Allow V V V V Cancel	Remove Deny

Hình 15-3: Xóa bỏ group Users

Permissions for Data		×
Security		
Object name: C:\Data		
Group or user names:		
SECREATOR OWNER		
🤽 KT (NEWSTAR\KT)		
S (NEWSTAR \NS)		
SYSTEM		
Administrators (NEWSTAR\A	dministrators)	
	Add	Remove
Pemissions for KT	Add Allow	Remove Deny
Pemissions for KT Modify	Add Allow	Remove Deny
Permissions for KT Modify Read & execute	Add Allow	Remove Deny
Permissions for KT Modify Read & execute List folder contents	Add Allow	Remove Deny
Permissions for KT Modify Read & execute List folder contents Read	Add Allow	Remove Deny
Permissions for KT Modify Read & execute List folder contents Read Write	Add Allow	Remove Deny
Permissions for KT Modify Read & execute List folder contents Read Write	Add Allow	Remove Deny
Permissions for KT Modify Read & execute List folder contents Read Write	Add Allow	Remove Deny

Hình 15-4: Phân quyền cho Group KT và NS

□ Thực hiện gán quyền cho KT1 bị cấm truy xuất

Permissions for Data Ketoar	ı	>
Security		
Object name: C:\Data\Data K	íetoan	
Group or user names:		
SCREATOR OWNER		
SYSTEM		
💐 KT (NEWSTAR\KT)		
Administrators (NEWSTAR)	Administrators)	
👗 KT1 (kt1@newstar.vn)		
	Add	Remove
Permissions for KT1	Allow	Deny
Read & execute		
List folder contents		
Read		
Write		
Special permissions		~
L		

Hình 15-5: Chặn KT1 truy xuất

)rganize 🔻 🔓	Open New folder				-
🔆 Favorites	Name	Date modified	Туре	Size	
E Desktop	🍶 Data chung	9/1/2017 1:08 AM	File folder		
🚺 Downloads	Data Ketoan	9/1/2017 1-08 AM	File folder		
📃 Recent Pla	Network Error		×		
Document	You do not have permission to access \\192	168.1.1\Data\Data Ketoan. Contact	your network		
 Music Pictures Videos 	administrator to request access. For more information about permissions, se	ee Windows Help and Support			
 Music Pictures Videos Computer 	administrator to request access.	se Windows Help and Support	Close		
Music Pictures Videos Computer Network	administrator to request access. For more information about permissions. si	ee Windows Help and Support	Close		
Music Pictures Videos Computer Network	administrator to request access. For more information about permissions, se	se Windows Help and Support	Close		

Hình 15-6: KT1 không được truy cập

Dùng tài khoản NS1 tạo folder NS1, đăng nhập bằng NS2 truy cập vào có thấy folder của NS1 tạo hay không?

rganize 🔻 🛛 🛜 Op	en New folder				
Favorites	Name	Date modified	Туре	Size	
E Desktop	👪 NS1	9/1/2017 9:27 AM	File folder		
Downloads					
Recent Places					
Jibraries					
Documents					
🁌 Music					
Pictures					
😸 Videos					
e comparer					
Vetwork					





Hình 15-8: NS2 đăng nhập

□ NS2 đã xóa được folder NS1 tạo, đồng thời tạo 2 folder khác đồng cấp

				_	×
🚱 🕞 🗢 🚺 🕨 Network	▶ 192.168.1.1 ▶ Data ▶ Data Nhansu ▶	- - - + - → -	Search Data Nhansu		٩
Organize 🔻 New folde	er				0
🚖 Favorites	Name	Date modified	Туре	Size	
🧮 Desktop	퉬 NS2	9/1/2017 9:31 AM	File folder		
Downloads	🐌 NS2 new	9/1/2017 9:31 AM	File folder		
🔠 Recent Places					
🚍 Libraries					
Documents					
🌙 Music					
Pictures					
Mideos					
🖳 Computer					
👊 Network					
2 items O Offline	iffline status: Online e availability: Not available				

Hình 15-9: NS2 tạo folder

Thiết lập nguyên tắc không xóa dữ liệu của người khác. Người nào tạo thì người đó được quyền xóa

📜 Data Nhansu Properties	Advanced Se	ecurity Settings for Data Nhansu				—
General Sharing Security Previous Versions Customize Object name: C:\Data\Data Nhansu Group or user names:	Name: Owner:	C:\Data\Data Nhansu Administrators (NEWSTAR\Ad	ministrators) 🏾 🌎 Ch	ange		
요즘 CREATOR OWNER 요즘 SYSTEM 요즘 NS (NEWSTAR'NS) 요즘 Administrators (NEWSTAR'Administrators)	Permissions For additiona Permission er	Share Auditing I information, double-click a perm ntries:	Effective Acces	ify a permission entry, select	the entry and	click Edit (if ava
To change permissions, cilck Edt. Edt Permissions for CREATOR OWNEER Allow Deny Full control Modify Read & execute List folder contents Read Write	Type Allow Allow Allow Allow Allow	Principal CREATOR OWNER SYSTEM NS (NEWSTAR\NS) Administrators (NEWSTAR\Ad	Access Full control Full control Full control Full control	Inherited from None None None None	Applies Subfold This fol This fol This fol	to lers and files onl der, subfolders : der, subfolders : der, subfolders :
For special comissions or advanced settings Permission Entry for Data Nhansu Principal: NS (NEWSTAR\NS) Select a principal				-		
Type: Allow Applies to: This folder, subfolders and files	~					Cancel
Advanced permissions:		Write attributes Write extended att Delete subfolders Delete Read permissions	ributes and files	Show basic pr	ermissions	
4 it Create folders / append data		Take ownership				

Hình 15-10: Bỏ 2 dấu check Delete subfolder and file và Delete

Organize 👻 🛛 🏹 Op	en New folder			· ·	(
🚖 Favorites	Name	Date modified	Туре	Size	
🧮 Desktop	📕 NS2	9/1/2017 9:31 AM	File folder		
\rm Downloads 📃 Recent Places	🍶 NS2 new	9/1/2017 9:31 AM	File folder		
Libraries Documents Music Pictures Videos Computer Network	You need permission to p You require permission fr	perform this action rom NEWSTAR\NS2 to make change NS2 Type: File folder Date modified: 9/1/2017 9:31 AM	es to this folder		
		Try Again	Cancel		



Dùng NS2 loại bỏ hoàn toàn tất cả nhưng tài khoản khác

Organize 🔻 🛛 🛜 Ope	n New folder	
Favorites Favorites Control Desktop Favorites Control Desktop	Name Data chung Data Ketoan Data Nhansu Document	General Security Previous Versions Customize
Videos		Add Remove
Videos		Add Remove Permissions for NS Allow Deny

Hình 15-12: NS2 xóa hết tài khoản khác



Hình 15-13: Admin không thể truy cập vào Datanhansu

□ Admin lấy lại quyền

00	🗢 🎍 🕨 Network 🕨	192.168.1.1 ► Data ►		✓ 49 Se	earch Data	Q
Organiz Fav Eu D C C C C C C C C C C	e	vanced Security Setting: issions Auditing Owner Security Settings for Dat	s for Data Nhansu Effective Permissions			
king king king king king king king king	araries To view or to ocume Object nam fusic Auditing International Control of the control of th	dit details for an auditing e: \\192.168.1.1\Dat ries: Name	entry, select the entry ar a'Data Nhansu Access	d then dick Edit.	Anniv To	
r₽ Co	Success	Administrator	Full control	<not inherited=""></not>	This folder, subfolder	
tių Ne	Add.	. Edit hheritable auditing entries all existing inheritable aud	Remove from this object's parent ting entries on all descen	dants with inheritable auditi	ng entries from this object	
1/	Dat					EF

Hình 15-14: Admin lấy quyền lại



Hình 15-15: Đã lấy lại quyền



Hình 15-16: Admin đã đăng nhập và truy cập vào folder

4 Triển khai và quản lý GPO

Sau khi học bài này sinh viên có khả năng tạo ra các chính sách cho các đối tượng

- \Box Chuẩn bị:
 - □ Một máy server 2016 đã lên DC
 - □ Một máy Client windows 7
- Mô hình



✤ Ân icon trên màn hình Desktop
Name:	
Remove Recycle Bin	
Source Starter GPO:	
Source Starter GPO: (none)	

Hình 16-1: Thêm GPO



Hình 16-2: Chỉnh sửa GPO

Remove Computer io	con on the desl	ttop — 🗆	×
🔚 Remove Computer ic	on on the desk	Previous Setting Next Setting	
O Not Configured C	Comment:		^
Enabled			
O Disabled			~
Si	upported on:	At least Windows Server 2003 operating systems or Windows XP Professional	^
			~
Options:		Help:	
		This setting hides Computer from the desktop and from the net Start menu. It also hides links to Computer in the Web view of a Explorer windows, and it hides Computer in the Explorer folder tree pane. If the user navigates into Computer via the "Up" button while this setting is enabled, they view an empty Computer folder. This setting allows administrators to restrict their users from seeing Computer in the shell namespace, allowing them to present their users with a simpler desktop environment. If you enable this setting, Computer is hidden on the desktop, the new Start menu, the Explorer folder tree pane, and the Explorer Web views. If the user manages to navigate to Computer, the folder will be empty. If you disable this setting, Computer is displayed as usual, appearing as normal on the desktop, Start menu, folder tree pane, and Web views, unless restricted by another setting. If you do not configure this setting, the default is to display Computer as usual.	N II

Hình 16-3: Enable tính năng trên GPO

💷 Ru	n >	×
٨	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
Open:	gpupdate /force 🗸 🗸	
	This task will be created with administrative privileges.	
	OK Cancel <u>B</u> rowse	
<u>o</u> pen:	Image: Second structure Image: Second structure Image: Second structure Image: Second structure <td></td>	

Hình 16-4: Cập nhật GPO



Hình 16-5: Icon đã mất trên máy Client

Thao tác trên GPO với các yêu cầu trên Desktop hình bên dưới

Ctive Directory		
🧮 Desktop		
E Prohibit User from manually redirecting Profile Folders	Not configured	No
Hide and disable all items on the desktop	Not configured	No
🗈 Remove the Desktop Cleanup Wizard	Not configured	No
Hide Internet Explorer icon on desktop	Not configured	No
Remove Computer icon on the desktop	Enabled	No
Remove My Documents icon on the desktop	Not configured	No
Hide Network Locations icon on desktop	Not configured	No
Remove Properties from the Computer icon context menu	Not configured	No
🖹 Remove Properties from the Documents icon context menu	Not configured	No
E Do not add shares of recently opened documents to Networ	Not configured	No
🖹 Remove Recycle Bin icon from desktop	Enabled	No
Remove Properties from the Recycle Bin context menu	Not configured	No
Don't save settings at exit	Not configured	No
E Turn off Aero Shake window minimizing mouse gesture	Not configured	No
E Prevent adding, dragging, dropping and closing the Taskbar	Not configured	No
🗈 Prohibit adjusting desktop toolbars	Not configured	No

Hình 16-6: Hãy Enable những tính năng còn lại

Group Policy Management Editor			– ¤ ×
File Action View Help			
🗢 🔿 🙍 📷 🗟 🖬 🍸			
Remove Recycle Bin [R1.NEWST Cashed Desktop			
V 👰 Computer Configuration	with description Setting	State	Comment
> Policies	ewits description. Setting	State	Comment
> C Preferences	Enable Active Desktop	Not configured	No
✓ K User Configuration	E Disable Active Desktop	Not configured	No
V Policies	E Prohibit changes	Not configured	No
> Software Settings	E Desktop Wallpaper	Not configured	No
> Windows Settings	E Prohibit adding items	Not configured	No
Administrative lemp	E Prohibit closing items	Not configured	No
> Control Panel	Prohibit deleting items	Not configured	No
V Uesktop	E Prohibit editing items	Not configured	No
Active Directo	E Disable all items	Not configured	No
Desktop	Add/Delete items	Not configured	No
> Network	Allow only bitmapped wallpage	per Not configured	No
Start Menu and T			
System			
Windows Compc			
C All Settings			
> Preferences			
	<		>
Kenter Standard St	ard /		
11 setting(s)			

Hình 16-7: Enable các tính năng còn lại

Setting	State	Comment
🗈 Enable filter in Find dialog box	Not configured	No
Hide Active Directory folder	Not configured	No
Maximum size of Active Directory searches	Not configured	No

Hình 16-8: Enable các tính năng còn lại

* Ân một vài item trong Control panel

iroup Policy Management Editor						0)
→ 2 m B 1 m	7					
Remove Recycle Bin [R1.NEWS1 Computer Configuration Preferences User Configuration Policies Software Settings	 Contre & Hide specified Hide specified Edit policy s Requiremen O Not Configured At least Win O Enabled 	Control Panel items Control Panel items Comment:		PreviousSetting	Next Setting	nment
 Windows Settings Administrative Temp Control Panel 	Description: This setting or hide spec	Supported on:	At least Windows 2000			No
 Display Display Personalizatic Printers Programs Programs Programs Programs Programs Programs Network Shart Menu and T Start Menu and T Start Menu and T System Windows Competing All Settings Preferences T 	Personalizat Panel windo screen. The Start screen window, as a scress Cont a sshortcuts or commanic control.exe. effect on ite settings. If you enabli select specif on the Cont the Start scri To hide a Cc	d Control Panel items			hide specified Control Panel sonalization, from the creen. The setting affects ndow, as well as other ways is shortcut in Help and ontrol.exe. This policy has ttings. ect specific items not to and the Start Screen. this policy setting and click Control Panel items. In the scolume neuter the Control	No No
	enable this r Show to acc disallowed (the Show Cc the Value cc Control Pan name. For e Microsoft.M Microsoft.Ss		Note: For versions example f	DK Cancel Windows Vista, Window of Windows, the module imedate.cpl or inetcpl.o	mple, enter or ws Server 2008, and earlier e name should be entered, for cpl. If a Control Panel item does	•

Hình 16-9: Ấn Mouse trong Control Panel



Hình 16-10: Mouse đã mất

* Thay đổi theme

Group Policy Management	Editor			- 0 ×
	-			
Fice Action View Help File Action View Help Pile Action View Help Pile Remove Recycle Bin (R1N) Policies Policies	Editor Editor Frevent changin Prevent changin Not Configured Editor Obsabled Options:	g theme g theme Comment: Supported on:		Comment No No No No No No No No No No No No No
			sounds, and screen saver can still be changed (unless policies are set to turn them off). If you disable or do not configure this setting, there is no effect. Note: If you enable this setting but do not specify a theme using the 'load a specific theme's setting, the theme defaults to whatever the user previously set or the system default.	No

Hình 16-11: Enable tính năng chặn đổi theme

Control Panel Home	Change the visuals a	nd sounds on your o	computer	reen saver all at onc
Change your account picture	My Themes (0)			
	Aero Themes (7)		Get mo	re themes online
	Windows 7	Architecture	Characters	
See also	Wind .		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0
Display	Desktop Background	Window Color	Sounds	Screen Saver

Hình 16-12: Uer không được đổi Theme

Chặn sửa IP

Prohibit access to	properties of a LA	AN connection					_		×
📑 Prohibit access to	properties of a LA	AN connection		Previous Se	etting	Next S	Setting		
O Not Configured	Comment:								^
Enabled									
○ Disabled									~
	Supported on:	At least Windov	vs 2000 Servio	ce Pack 1					^
									~
Options:			Help:						
			Determines connection This setting enabled, ar dialog box If you enab Connection menu item Local Area Important: Administra apply to ad If you disab menu item a LAN conr Properties i	whether use determines d thus, whet is available to le this settings s settings foi Connection F of the "Enable tors" is disable tors" is disable ministrators of ole this setting appears whe nection. Also, is enabled on	rs can ch whether the L b users. g (and en r Adminis d for all u Properties e Network led or no on post-\ g or do n n users ri when us the File r	ange the the Prope ocal Area able the ' strators'' sers, and s dialog b k Connec t configu Windows ot config ight-click ers select menu.	properties erties menu (Connectic 'Enable Net setting), thu users cann yox. tions settir red, this se 2000 comp ure it, a Pro- the icon re t the conne	of a LAN i item is on Propert twork e Properti ot open ti ngs for tting sfor tting sfor tting sfor tting stor puters. operties epresentir section,	iies es he not
					OK		Cancel	App	oly

Hình 16-13: Enable tính năng



Hình 16-14: Không chỉnh được IP

Start Menu and Taskbar

📕 Gr	oup Policy Managemer	nt Editor						- 6) ×
File	Lock the Taskbar						\times		
	E Lock the Taskbar			Previous Setting	Next Setting				
~ 6	O Not Configured	Comment:					^		Sta '
	Enabled							Menu	Not cor
Ť	O Disabled						\vee	documents on exit	Not cor
		Supported on:	At least Windov	vs Server 2003 operating systems or	Windows XP Profe	essional	~	r new users	Not cor
							~	g on	Not cor
			L					bs view	Not cor
	Options:			Help:				view	Not cor
				This setting offects the taskbas u	high is used to suit	teh hatusan	.	n size or menu size	Not cor
				running applications.	mich is used to swi	ten betweer		rt when signing in	Not cor
								ller programs Start Menu shortcuts	Not cor
				The taskbar includes the Start but tasks, and the notification area. B	tton, list of currentl v default, the taskh	y running ar is locater			Not cor
				at the bottom of the screen, but i	t can be dragged to	o any side o	F.		Enal
				the screen. When it is locked, it c	annot be moved or	resized.			Not cor
				If you enable this setting, it preve	nts the user from n	novina or		pace" check box to Run dialog box	Not cor
				resizing the taskbar. While the tas	kbar is locked, aut	o-hide and		ib .	Not cor
				other taskbar options are still ava	ilable in Taskbar pr	operties.		enu items	Not cor
				If you disable this setting or do n	ot configure it, the	user can		their Start Screen	Not cor
				configure the taskbar position.	·····			ne Shut Down, Restart, Sleep, and Hiberna	Not cor
				Nata Cashina this settion also be				art Menu	Not cor
				any other toolbars that the user h	as on their taskbar	. The		Venu	Not cor
				toolbar's position is locked, and t	he user cannot sho	w and hide		from the Start Menu	Not cor
				various toolbars using the taskba	r context menu.			Иenu	Not cor
								Menu	Not cor
	L]	L			·		Not cor
				OK	Cancel			he Start menu	Not cor
l								rom Start Menu	Not cor v
			has	on their taskhar. The toolbar's	<				>
<			> \ Ex	tended / Standard /					
92 set	ting(s)								

Hình 16-15: Enble tính năng



Hình 16-16: Taskbar đã bị khóa

* System

Group Policy Management Editor			_	٥	×
File Action View Help					
🗢 🔿 🖄 📷 📴 🛐 🦷		ompt	- 0	×	
Kemove Recycle bin [RT.NewSTAR.VN] Policy Memove Recycle bin [RT.NewSTAR.VN] Policy Policies Ordenace	Prevent access to the command pro	Previous Setting	Next Setting	s	tate
Verences Verences	Not Configured Comment: Enabled			^	
Software settings G Administrative Templates: Policy defi S Control Panel	O Disabled Supported on:	At least Windows 2000		~	
Control and Desktop Control and Desktop Control and Desktop Desktop Network Metwork	Options:	Help:		~	
 Offline Files Windows Connect Now Shared Folders Start Menu and Taskbar 	Disable the command prompt script pro also? Yes ~	This policy setting prevents us command prompt, Cmd.exe. whether batch files (.cmd and	ers from running the interactive This policy setting also determines .bat) can run on the computer.	ot co	onfig
✓ System Ctrl+Alt+Del Options Driver Installation Folder Redirection		If you enable this policy settin command window, the system that a setting prevents the act	g and the user tries to open a n displays a message explaining ion. ng or do not configure it. users can	ot co ot co ot co	nfig nfig nfig
 Group Policy Internet Communication Man Locale Services 		run Cmd.exe and batch files n Note: Do not prevent the com the computer uses logon, log	ormally. puter from running batch files if off, startup, or shutdown batch file	En: ot co ot co	able onfig onfig
 Logon Mitigation Options Power Management Removable Storage Access 		scripts, or for users that use Re	emote Desktop Services.	ot co	onfig
Scripts User Profiles Mindows Components				~	
C All Settings			OK Cancel Apply		>
10 setting(s)					

Hình 16-17: Enable tính năng



Hình 16-18: CMD đã bị chặn

Windows Components

	💭 Don't run specified Window	s app	olicati	ions						×
1	Don't run specified Window	/s app	olicati	ions	Previou	s Setting	Ne	kt Setting		
İ	O Not Configured Commer	nt:	Γ							^
1	Enabled									
1	O Disabled									~
	Support	ed on	" A	At least Windows 2000						^
			L						 	~
1	Options:			Help:						
1	List of disallowed applications	Sh	now C	Contents						\times
1			ist of	disallowed applications						
		Г		Mahar						
I				mspaint exe					 	
ł			**							
ļ										
1										
1										
Í										
1					Previous Setting Next Setting					
5							_		 	
5						OK		Cancel	Ар	oly

Hình 16-19: Enable tính năng



Hình 16-20: Truy cập phần mềm Paint đã bị chặn

5 Disk Quota

Sau khi học bài này sinh viên có khả năng giới hạn được dụng lượng ổ đĩa và chỉ định những file nào được chép vào thư mục đó

- Chuẩn bị: + Một máy server 2016 + Một máy Windows 7
 Mô hình
 Domain Controller
 192.168.1.2
 192.168.1.3
 192.168.1.1
 192.168.1.4
 - Mỗi User có một giới hạn ổ đĩa mạng và không cho chép file exe vào trong ổ đĩa mạng đó
 - Thực hiện



Hình 18-1: Cài FSRM

Permissions for Share		×
Permissions for Share Share Permissions Group or user names: Image: Ima		
Permissions for Share > Share Permissions Group or user names: Image: Strain		
Permissions for Share Share Pemissions Group or user names:		
	Add	Remove
Permissions for Share Share Permissions Group or user names: Image: Strain S		Deny
Permissions for Everyone Full Control	Allow	Deny
Permissions for Everyone Full Control Change	Allow	Deny
Permissions for Everyone Full Control Change Read	Allow	Deny
Permissions for Everyone Full Control Change Read	Allow	Deny
Permissions for Everyone Full Control Change Read	Allow	Deny
Permissions for Everyone Full Control Change Read	Allow	Deny
Permissions for Everyone Full Control Change Read	Allow	Deny
Permissions for Everyone Full Control Change Read	Allow V V V	Deny

Hình 18-2: Share Folder

File Server Resource Manager		- 0	×
File Action View Help			
🗢 🄿 🞽 📰 🛿 🖬			
File Server Resource Manager (Local)	Filter: Show all: 0 items	Actions	
V & Quota Management	Quota Path %. L Qu Source T Match Des	Quotas	•
Q Create Quota		는 Create Quota	
> S Refresh		Q Refresh	
Stora View		View	►
🔁 File N Help		Help	
=	<>		

Hình 18-3: Tạo Quota

Create Quota	×
Quota path:	
C:\Share Browse	
Create quota on path	
\bigcirc Auto apply template and create quotas on existing and new subfolders	
Quota properties	
You can either use properties from a quota template or define custom quota properties.	
How do you want to configure quota properties?	
O Derive properties from this quota template (recommended):	
100 MB Limit \sim	
Define custom quota properties	
Custom Properties	
Summary of quota properties:	
Limit: 500 MB (Hard)	
Create Cancel	

Hình 18-4: Chọn Folder share

Save Custom Properties as a Template	×
If you plan to create other quotas with the custom properties of this quota, it is recommended that you save the properties as a quota template.	
Do you want to save a quota template?	
Save the custom properties as a template	
This creates a new quota template and then applies the template to the new quota.	
Template name:	
Nhansu	
O Save the custom quota without creating a template	
Do not ask me to save as a template again	
OK Cancel	

Hình 18-5: Đặt tên cho mẫu vừa làm

□ Tiến hành chép file lớn hơn 500MB sẽ thông báo lỗi là không đủ dung lượng



Hình 18-6: Cảnh báo không đủ ổ đĩa



Hình 18-7: Ô đĩa mạng map cho client

bile Server Resource Manager		- 🗆 X
File Action View Help		
🔶 🄿 📶 🖬 🖬		
 File Server Resource Manager (Local) Quota Management Quota Templates Guota Templates File Screens File Screen Templates File Screen Te	File Gr Include Files Exclude Audio *.aac, *.aif, *.aiff, *.asf, Backu *.bak, *.bck, *.bkf, *.old Backu *.bak, *.bck, *.bkf, *.old Comp *.ace, *.arc, *.arj, *.bhx, E-mail *.eml, *.idx, *.mbox, * Execut *.eml, *.idx, *.mbox, * Execut *.bak, *.crd, *.com, * Image *.bmp, *.dib, *.eps, *.g Office *.accdb, *.accde, *.acc > Syste *.acrn, *.dll, *.ocx *.sy Temp Temp *.temp, *.tmp, ~* Text Fi *.asp, *.aspx, *.cgi, *.cs	Files Actions File Groups Create File Group Refresh View Help Help
Currente o filo concerno consider collecto concerno filo		

Hình 18-8: Tạo chính sách file

Tạo ra một group điều kiện file. Muốn cấm file nào thì nhập phần mở rộng vào Files to include, ngược lại thì nhập vào File to exclude

reate File Group Properties			\times
Settings			
File group name:			
Cam file exe			
To select a set of files, type a file name Examples: *.exe or Q4FY2002*.*	e pattem, and click	c Add.	
Files to include:			
	Add	Remove	
*.exe			
Files to exclude:	Add	Remove	
	Auu	Nemove	_
	OK	Cancel	

Hình 18-9: Cấm file exe

D Đã tạo ra những quy luật cần gán những quy luật đó cho folder nào



Hình 18-10: Tạo ra file Screen

Create File Screen	×
File screen path: C:\Share Browse	
File screen properties You can either use properties from a file screen template or define custom file screen properties.	
How do you want to configure file screen properties? Derive properties from this file screen template (recommended): Block Audio and Video Files Define custom file screen properties: Custom Properties 	
Summary of file screen properties: 	
Create Cancel	

Hình 18-11: Chọn Custom Properties

File Screen Properties on C:\Share			×
Copy properties from template (optional): Block Audio and Video Files	~	Сору	
Settings E-mail Message Event Log Command Report File screen path: C:\Share Screening type: Active screening: Do not allow users to save unauthorized files Passive screening: Allow users to save files (use for monitoring) File groups Select file groups to block: Audio and Video Files Backup Files Create Compressed Files Etail Files Executable Files Office Files Office Files File and Files Select files Select files Select files File scenario Select files Select files<td>roups: e e group to ts label.</td><td></td><td></td>	roups: e e group to ts label.		
ОК		Cancel	

Hình 18-12: Chọn temple đã tạo

Save Custom Properties as a Template	\times
If you plan to create other file screens with the custom properties of this file screen, it is recommended that you save the properties as a file screen template.	
Do you want to save a file screen template?	
Save the custom properties as a template	
This creates a new file screen template and then applies the template to the new file screen.	
Template name:	
$\textcircled{\sc online \label{eq:screen} }$ Save the custom file screen without creating a template	
Do not ask me to save as a template again	
OK Cancel	

Hình 18-13: Lưu thay đổi lại

Tiến hành chép file exe vào folder mà ta đã tạo. Lúc đó sẽ có cảnh báo là không có quyền để chép file đó, nếu chép file khác thì được



Hình 18-14: Không có quyền chép file



Hình 18-15: File khác tạo thì được

6 Triển khai Deploy Software

Sau khi học bài này xong sinh viên có thể cài ứng dụng tự động cho các user hoặc cho các pc thông qua chính sách GPO

- □ Chuẩn bị:
 - + Một máy server 2016 đã lên domain
 - + Một máy windows 7
- \square Mô hình



□ Kết quả đạt được

□ Cài phần mềm foxit reader khi đăng nhập tài khoản ở máy client Thực hiện

- □ Thực hiện tạo OU và 2 user u1, u2 nằm trong OU nhansu
- □ Tiến hành tạo GPO mang tên deploy software
- □ Link từ GPO deploy software sang OU nhansu
- □ Cập nhật chính sách GPO bằng lệnh gpupdate /force
- □ Thực hiện trên máy DC

Crown Doliny Management		- a ×
File Action View Window Help		- E ×
K Group Policy Management	Group Policy Objects in newstar.vn	
✓ ▲ Forest: newstar.vn ✓ ▲ Domains Group Policy	Management Editor	×
 ✓ iii newstar.vn File Action \ iii Default Domai iii Domain Contr 	iew Help @ ➡ ፪ 페	
 > all Giam doc □ Truong phong ♥ Computer > all Kean > all Policie > all Nhan su > all Perferent > all Group Policy ♥ User Computer > all Stater GPOs ♥ all Stater GPOs 	rer (R1.NEWSTAR: Configuration s nces guration s tware Settings Software installat	(((
👸 Group Policy Modelir 🔰 🔛 Wi	New > Package	
Group Policy Results > 📫 Ad	r View >	
	Paste Refresh Export List	
	Properties	
	Help	
<	2	
Auts a package.		
		5 Group Policy Object(s)

Hình 19-1: Chọn phần mềm



Hình 19-2: Đường dẫn mạng lưu trữ phần mềm

Foxit Rea	der Properties	5			?	×	
General	Deployment	Upgrades	Categories	Modifications	Security		
Deplo	yment type						
OF	ublished						
A	Assigned						
Deplo	yment options						
~ A	uto-install this a	application b	y file extensio	n activation			
	Jninstall this app nanagement	plication whe	en it falls out (of the scope of			
)o not display th anel	nis package	in the Add/R	emove Program	is control		
	nstall this applic	ation at logo	n				
Instal	lation user inter	face options					
OB	asic						
•	Maximum						
Adva	nced						
			ОК	Cancel	Apply	r	

Hình 19-3: Chọn Assigned

Truy cập ở máy Client với tài khoản u1



Hình 19-4: Kết quả của máy client

7 Domain đồng cấp

Sau khi học bài này xong người học có khả năng sự cân bằng cho Domain, dự phòng cho domain

- □ Chuẩn bị:
 - + Một máy windows server đã lên DC
 - + Một máy windows server join Domain
 - + Một máy windows 7
- Mô hình



- □ Kết quả đạt được
 - □ Tạo U1 và U2 bên Primary sẽ thấy bên Secondary
 - □ Chuyển 5 role quản trị sang cho R2
 - □ Sau đó dùng lệnh chuyển 5 role từ R2 sang R1
- Thực hiện

📥 Add Roles and Features Wizard		- 0 X
Select server roles		DESTINATION SERVER R2.newstar.vn
Before You Begin	Select one or more roles to install on the selected server.	
Installation Type	Roles	Description
Server Selection Server Roles Features AD DS Confirmation Results	Active Directory Certificate Services Active Directory Pomain Services Active Directory Federation Services Active Directory Lightweight Directory Services Active Directory Rights Management Services Device Health Attestation DHCP Server Fax Server Fax Server File and Storage Services (1 of 12 installed) Host Guardian Service Hyper-V MultiPoint Services Network Policy and Access Services Print and Document Services Remote Desktop Services Volume Activation Services Velume Services Velume Services Velume Services Velume Activation Services Velume Services Velum	Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.
	< Previous Nex	t > Instail Cancel
	Hình 22-1: Cài đặt ADDS	5
📥 Active Directory Domain Servic	es Configuration Wizard	– 🗆 ×
Deployment Con	figuration	TARGET SERVER R2.newstar.vn
Deployment Configuration	Select the deployment operation	
Domain Controller Options	 Add a domain controller to an existing domain 	
Additional Options Paths	 Add a new domain to an existing forest Add a new forest 	
Review Options	Specify the domain information for this operation	
Prerequisites Check	Domain: newstar.vn	Select
Results	Supply the credentials to perform this operation	,
	NEWSTAR\Administrator (Current user)	Change
	More about deployment configurations	
	< Previous Next	> Install Cancel

Hình 22-2: Chọn mục đầu tiên



Hình 22-3: Cập nhật giữa các domain

□ Tạo user U11 và U12 ở domain Priamary sau đó qua domain Secondary

Active Directory Users and Com	puters			—	×
File Action View Help					
🗢 🔿 📶 🛅 🛅 🙆	è 🛛 🖬 🐮	と 🛅 🍸 🗾 I	2		
 Active Directory Users and Com Saved Queries Rewstar.vn Builtin Computers Domain Controllers ForeignSecurityPrincipal: Managed Service Accour Nhansu Users 	Name Domain Co Domain Co Domain Cue Domain Gue Domain Users Enterprise A Composition Group Polic Group Polic Group Polic Group Polic Group Polic Read-only D Read-only D Read-only D Sep Jul Sul Sul Lin Lin Sul Lin Sul	Type Security Group Security Group Security Group Security Group Security Group Security Group User User Security Group Security Group Security Group Security Group Security Group Security Group Security Group User User User User User User User User	Description All workstations and ser All domain controllers i All domain guests All domain users Designated administrato Members of this group Members of this group c Built-in account for gue Members of this group Members of this group Members of this group Servers in this group can Members of this group Designated administrato		^

Hình 22-4: U11 và U12 đã cập nhật

Trên một hệ thống domain sẽ có 5 role để quản lý tài nguyên cho domain. Ở đây ta tiến hành chuyển đổi role qua lại giữa 2 domain chính phụ

Active Dire	ectory Users and Com	puters			_		×
File Action	View Help						
🗢 🔿 🖄	⇐ ⇒ 2 📷 ¼ 📋 🗙 🗒 Q 🕞 🛛 🖬 🖏 🏷 🖄 🍸 💆 🎘						
📃 Active Direc	ctory Users and Com	Name	Туре	Description			^
> 🧾 Saved C	Queries	Access-Deni	Security Group	Members of this group			
× ∰ ne	Delegate Control	-	Jser	Built-in account for ad			
	Find		Security Group	Members in this group c			
	Find		Security Group	Members of this group			
	Change Domain		Security Group	Members of this group t			
	Change Domain Cor	ntroller	Jser	A user account manage			
	Raise domain functi	onal level	Security Group	Members in this group c			
	Operations Masters.		Security Group	DNS Administrators Gro			
			Security Group	DNS clients who are per			
	New	>	Security Group	Designated administrato			
	All Tasks	>	Security Group	All workstations and ser			
	Refresh		Security Group	All domain controllers i			
			Security Group	All domain guests			
	Properties		Security Group	All domain users			- 11
	Help		Security Group	Designated administrato			
	Thep	ag enterprise to	Security Group	Members of this group			
		🕂 Enterprise R	Security Group	Members of this group			
		Roup Polic	Security Group	Members in this group c			
		ᡖ Guest	User	Built-in account for gue			
		揭 Hiep Dang.	User				
<	>	Key Admins	Security Group	Members of this group			~
Domain operation	ons masters						

Hình 22-5: Chọn vào Operations Master

Chuyển đổi RID qua R2: Change

Operations Masters	?	×
RID PDC Infrastructure		
The operations master manages the allocation of RID pools to Controllers. Only one server in the domain performs this role.	other Do	omain
Operations master:		
R2.newstar.vn		
To transfer the operations master role to the following computer, click Change.	Change	·
R2.newstar.vn		
Close	Car	ncel

Operati	ions Mast	ters			?	×
RID	PDC	Infrastructure				
The o (PDC) this ro	perations) for pre-W ble.	master emulate /indows 2000 c	es the function lients. Only or	is of a primary ne server in the	Domain Co domain pe	ntroller erforms
Opera	ations mas	ter:				
R2.n	ewstar.vn					
To tra comp	ansfer the uter, click	operations mas Change.	ter role to the	following	Chang	e
R2.n	ewstar.vn					
				Close	Ca	ancel

Hình 22-6: Chuyển đổi PDC qua R2

Operati	ons Mas	ters			?	×
RID	PDC	Infrastructure				
The ir opera	nfrastructi tions. On	ure master ensu ly one server in t	res consistency the domain perf	of objects fo orms this role	r inter-domair	ı
Opera	ations ma:	ster:				
R2.n	ewstar.vr	ı				
To tra comp	ansfer the uter, click	operations mast Change.	ter role to the fo	llowing	Change.	
R2.n	ewstar.vr	ı				
				Close	Can	cel

Hình 22-7: Chuyển đổi Infrastructure qua R2

□ Chọn vào Active Directory Domain and Truts để chuyển R2

🚮 Active Dir	rectory Domains and Trusts		- 0	\times	
File Action	View Help				
🖙 🔿 🖄	TT 📑 📑 🔽 TT				
Active Dire	ectory Domains and Trust Change Forest Change Active Directory	y Domain Controller	Type this view.	Actions newstar.vn More Actions	* •
	Raise Forest Functional				
	Refresh				
Properties					
	Help				
<	>	<	>		
Transfer the op	perations master role to a d	ifferent computer		1	

Hình 22-8: Chuyển đổi Role Schema

Operations Master	×
The domain naming operations master ensures that doma unique. Only one Active Directory Domain Controller in th performs this role.	ain names are le enterprise
Domain naming operations master:	
R2.newstar.vn	
To transfer the domain naming master role to the following computer, click Change.	Change
R2.newstar.vn	
	Close

Hình 22-9: Chuyển đổi Role qua R2

🖅 Run	×	
٨	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
Open:	regsvr32 schmmgmt.dll This task will be created with administrative privileges.	
	OK Cancel Browse	



ap-in Active Directory Domains an	Vendor Microsoft		Console Root	Edit Extensions
Active Directory Schema Active Directory Sites and S Active Directory Users and	Microsoft Microsoft Microsoft			Move Up
ActiveX Control ADSI Edit Authorization Manager	Microsoft Microsoft Microsoft	Add >		Move Down
l Certificates Component Services Computer Management	Microsoft Microsoft Microsoft			
Device Manager Disk Management	Microsoft Microsoft			Advanced



Change	e Directory Server						×
Current R1.ne	Directory Server: ewstar.vn						
Change	to:						
⊖ Ar	ny writable Domain Cont	roller					
⊙ Tr	nis Domain Controller or	AD LDS instance					
L	ook in this domain:	newstar.vn					\sim
	Name	ver name['nort] here \	Site	DC Type	DC Version	Status	
	R1.newstar.vn	er name[.poit] nere>	Default-First-Site-Name	GC	Windows	Online	
	R2.newstar.vn		Default-First-Site-Name	GC	Windows	Online	
				OK	Cancel	Help	

Hình 22-12: Chọn Server muốn add

ᡖ Console1 -	[Console Root]	– 🗆 X
🚟 File 🛛 Actio	n View Favorites Window Help	_ 8 ×
🏟 🛛 📷	🔒 🛿 🛅	
Console Ro	ot Name	Actions
V 😹 Active D	Change Active Directory Domain Controller	Console Root 🔺
Attr	Connect to Schema Operations Master	More Actions 🕨
	Operations Master	
	Permissions	
	Reload the Schema	
	New Window from Here	
	Refresh	
	Help	
<	>	
Change the Ope	rations Master	

Hình 22-13: Chọn vào Operations Master

Change Schema Master X					
The schema master manages modifications to the schema. Only one server in the enterprise performs this role.					
Current schema master (online):					
R2.newstar.vn					
To transfer the schema master role to the targeted Change Change					
R2.newstar.vn					
Close Help					

Hình 22-14: Chọn change



Hình 22-15: Các Role đã chuyển qua R2

□ Thực hiện chuyển các Role bằng lệnh, ngồi trên R1



Hình 22-16: Kết nối tới R1

		_	~
Administrator: Command Prompt - htdsu	τιι –	- 🗆	~
PDC R2.	newstar.vn		^
KID pool Manager K2.			
The command completed successful	newscar.vn		
The command completed successfu	ily.		
C:\Usons\Administraton\n			
Role Tran	sfer Confirmation Dialog	×	
ntdsutil:	and committee bloog		
ntdsutil:			
ntdsutil:	Are you sure you want the role of Naming Master transferred	to the	
ntdsutil: Roles	server "R1"?		
fsmo maintenance: connec			
server connections: conn			
Binding to R1	1		
Connected to R1 using cr	Yes	No	
server connections: a			
fsmo maintenance: transfer nami	ng master		~
			> .:

Hình 22-17: Chuyển Role sang R1



Hình 22-18: Chuyển Role Infrastructure sang R1



Hình 22-19: Chuyển Role PDC sang R1

fsmo maintenance: transfer rid master
Server "R1" knows about 5 roles
Schema - CN=NTDS Settings,CN=R2,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Co
nfiguration,DC=newstar,DC=vn
Naming Master - CN=NTDS Settings,CN=R1,CN=Servers,CN=Default-First-Site-Name,CN=Site
s,CN=Configuration,DC=newstar,DC=vn
PDC - CN=NTDS Settings,CN=R1,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Confi
guration,DC=newstar,DC=vn
RID - CN=NTDS Settings,CN=R1,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Confi
guration,DC=newstar,DC=vn
Infrastructure - CN=NTDS Settings,CN=R1,CN=Servers,CN=Default-First-Site-Name,CN=Sit
es,CN=Configuration,DC=newstar,DC=vn
fsmo maintenance:

Hình 22-20: Chuyển Role RID sang R1







Hình 22-22: Quá trình chuyển đổi thành công

8 Domain con

Sau khi học xong bài này sinh viên có khả năng xây dựng một domain con. Một domain không chịu chính sách của domain cha

- □ Chuẩn bị:
 - + Một máy windows server đã lên DC
 - + Một máy windows server join Domain
 - + Một máy windows 7
- □ Mô hình



- □ Kết quả đạt được
 - Diều chỉnh chính sách Password ở domain con, tạo u1 không ảnh hưởng chính sách domain cha
- Thực hiện
- □ Thực hiện cấu hình DNS domain con trên R1

🛔 DNS Manager			_	o x
File Action View Help	p			
🗢 🄿 🖄 📷 🙆				
DNS D	Name msdcs.newstar.vn New Zone View > Refresh Export List Help	Type Active Directory-Integrated Pr Active Directory-Integrated Pr	Status Running Running	DNSSEC Status Not Signed Not Signed
	٢			>
Create a new zone.				

Hình 23-1: Chọn New Zone

New Zone Wizard	×				
Zone Type The DNS server supports various types of zones and storage.					
Select the type of zone you want to create:					
Primary zone					
Creates a copy of a zone that can be updated directly on this server.					
○ Secondary zone					
Creates a copy of a zone that exists on another server. This option helps balance the processing load of primary servers and provides fault tolerance.					
◯ Stub zone					
Creates a copy of a zone containing only Name Server (NS), Start of Authority (SOA), and possibly glue Host (A) records. A server containing a stub zone is no authoritative for that zone.	ot				
Store the zone in Active Directory (available only if DNS server is a writeable do controller)	nain				
< Back Next > C	ancel				

Hình 23-2: Primary zone
New Zone Wizard	×
Active Directory Zone Replication Scope You can select how you want DNS data replicated throughout your network.	
Select how you want zone data replicated:	
\bigcirc To all DNS servers running on domain controllers in this forest: <code>newstar.vn</code>	
• To all DNS servers running on domain controllers in this domain: newstar.vn	
○ To all domain controllers in this domain (for Windows 2000 compatibility): news	tar.vn
\bigcirc To all domain controllers specified in the scope of this directory partition:	
	\sim
< Back Next >	Cancel

Hình 23-3: Cập nhật với domain newstar

New Zone Wizard	×
Zone Name What is the name of the new zone?	Antonia dal
The zone name specifies the portion of the DNS namespace for whi authoritative. It might be your organization's domain name (for exa or a portion of the domain name (for example, newzone.microsoft. not the name of the DNS server.	ch this server is mple, microsoft.com) com). The zone name is
Zone name:	
Microsoft.newstar.vn	
a Back New	

Hình 23-4: Tạo zone domain con

New Zone Wizard X					
Dynamic Update You can specify that this DNS zone accepts secure, nonsecure, or no dynamic updates.					
Dynamic updates enable DNS client computers to register and dynamically update their resource records with a DNS server whenever changes occur. Select the type of dynamic updates you want to allow:					
Allow only secure dynamic updates (recommended for Active Directory) This option is available only for Active Directory-integrated zones.					
 Allow both nonsecure and secure dynamic updates Dynamic updates of resource records are accepted from any client. This option is a significant security vulnerability because updates can be accepted from untrusted sources. 					
O Do not allow dynamic updates Dynamic updates of resource records are not accepted by this zone. You must update these records manually.					
< Back Next > Cancel					

Hình 23-5: Cập nhật với domain

□ Tạo domain con trên R2

		DESTINATION SERVER
elect server ro	les	R2.newstar.vn
Before You Begin Installation Type	Select one or more roles to install on the selected server.	Description
Server Selection Server Roles Features AD DS Confirmation Results	Active Directory Certificate Services Active Directory Pederation Services Active Directory rederation Services Active Directory Rederation Services Active Directory Rights Management Services Device Health Attestation DHCP Server Fax Server Fax Server File and Storage Services (1 of 12 installed) Host Guardian Service Hyper-V MultiPoint Services Network Policy and Access Services Remote Desktop Services Volume Activation Services Web Server (IIS) Windows Deployment Services	Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.

Hình 23-6: Cài ADDS

📥 Active Directory Domain Services Configuration Wizard × TARGET SERVER Deployment Configuration R2.newstar.vn Select the deployment operation Domain Controller Options $\bigcirc\,$ Add a domain controller to an existing domain Additional Options Add a new domain to an existing forest Paths ○ Add a new forest Review Options Specify the domain information for this operation Prerequisites Check Child Domain v Select domain type: Parent domain name: newstar.vn Select... New domain name: Microsoft Supply the credentials to perform this operation NEWSTAR\Administrator (Current user) Change... More about deployment configurations < Previous Next > Install Cancel

Hình 23-7: Domain con microsoft.newstar.vn

📥 Active Directory Domain Service	s Configuration Wizard		<u></u>		×
Domain Controlle	r Options		TA	RGET SEI R2.newst	RVER ar.vn
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Review Options Prerequisites Check Installation Results	Select functional level of the new Domain functional level: Specify domain controller capab Domain Name System (DNS) Global Catalog (GC) Read only domain controller Site name: Type the Directory Services Resto Password: Confirm password:	v domain Windows Server 2016 ilities and site information server (RODC) Default-First-Site-Name ore Mode (DSRM) password			
	More about domain controller o	ptions			
		< Previous Next > Ins	tall	Cance	el

Hình 23-8: Domain Controller Options

Þ 🔿 🛅 🐹 🖬 🎽	🛛 📩 📕 🗐		
DNS R1 R1 Forward Lookup Zone imcrosoft.newstar.vi imcrosoft.newstar imcrosoft.newid imcrosoft.newid i	Name msdcs sites tcp udp DomainDnsZones ForestDnsZones	Туре	Data
abu 🗂	(same as parent folder)	Start of Authority (SOA)	[27], r1.newstar.vn., host
	(same as parent folder)	Name Server (NS)	r1.newstar.vn.
> 🦰 DomainDnsZo			
> 🧾 DomainDnsZo > 🛅 ForestDnsZon	(same as parent folder)	Host (A)	192.168.1.1
> 🦰 DomainDnsZo > 🛅 ForestDnsZon > 🛐 microsoft	(same as parent folder)	Host (A) Host (A)	192.168.1.1 192.168.1.3
> 📋 DomainDnsZo > 📋 ForestDnsZon > 🗊 microsoft > 🚰 Reverse Lookup Zone	(same as parent folder)	Host (A) Host (A) Host (A)	192.168.1.1 192.168.1.3 192.168.1.1

Hình 23-9: Đã cập nhật domain vào domain cha



Hình 23-10: Dùng chính sách áp cho domain cha

New Object - User	×
Create in: newstar.vn/Users	
Password:	
Confirm password:	
User <u>m</u> ust change password at next logon	
User cannot change password	
Pass <u>w</u> ord never expires	
Account is disabled	
< <u>B</u> ack <u>N</u> ext > Cance	el

Hình 23-11: Tạo user cho domain cha

📓 Group Policy Management		- 🗆 ×
📓 File Action View Window Help		_ & ×
🗢 🧼 🖄 📰 🖹 🗎 🗶 🗟 🛛 🗊		
Group Policy Management Composition of the second	Policy ettings Delegation Status constitute cons	x Policy Sett 24 passwo 42 days 1 days 4 characte Disabled Disabled Disabled
<		

Hình 23-12: Điều chỉnh chính sách domain con

New Object - User	×
Create in: microsoft.newstar.vn/Users	
Password:	
Confirm password:	
User must change password at next logon	
User cannot change password	
Password never expires	
Account is disabled	
< Back Next > Canc	el

Hình 23-13: Tạo user với chính sách ở domain con

9 Chia site domain

- \Box Chuẩn bị:
 - + Một máy windows server đã lên DC
 - + Một máy windows server join Domain
 - + Một máy windows 7
- Mô hình Hanoi



172.16.0.3

- □ Kết quả đạt được
 - Tạo U1 ở domain HCM sau đó ngắt kết nối ở router, u1 vẫn đăng nhập được ở site Hanoi
- Thực hiện
- □ Thực hiện join domain cho R2
- □ Thực hiện định tuyến giữa hai mạng

🚊 Routing and Remote Access			_	
File Action View Help				
(← →) 🖄 📰 🔀 🖬 🖬 🖬				
Routing and Remote Access	RIP			
Server Status	Interface	Update mode	Responses sent	Response
Network Interfaces	Ethernet1	Periodic	1	0
🗟 Remote Access Logging	Ethernet0	Periodic	1	0
✓ 🚊 IPv4				
General				
> 🚊 IPv6				
< >	<			>



Help
ell

Hình 24-2: Chọn ADSS

Here and Service	s			-	Ц	×
File Action View Help						
	P					
Control Contro	Name Sites	Type Sites Container	Description			
New	> Site					
All Tasks	>					
Refresh						
Properties						
Help						
< >>						
Create a new object						

Hình 24-3: New □*Site*

New Object	- Site		×
	Create in: newstar.vn/Config	guration/Sites	
Name:	Hanoi		
Select a site Sites/Inter-	e link object for this site. Site lir Site Transports container. e	nk objects are located in the	
<mark>県</mark>	ULTIPSITELINK	IP	
		ОК	Cancel

Hình 24-4: Thêm site Hanoi

Active Directory Domain Services

-	-	× 1

Site Hanoi has been created. To finish configuration of Hanoi:

Ensure that Hanoi is linked to other sites with site links as appropriate.

 \times

Add subnets for Hanoi to the Subnets container.

Install one or more Domain Controllers in Hanoi, or move existing DCs into the site.

You will not see this message again until the next time you start Active Directory Sites and Services.



Hình 24-5: Site Hanoi được tạo

Active Directory Sites and Services	-	×
File Action View Help		
🗢 🔿 📶 🗙 🗐 🙆 🖦 🛛 🖬 🛛 🔤		
Active Directory Sites and Services [Name Type Description Sites Inter-Site Transports Site Settings Site Settings SMTP Subnets Servers Servers Contai HCM Hanoi Settings Settings		

Hình 24-6: Chỉnh sửa file mặc định thành HCM

m A ct	ive Directory Sites and S	an úsas								~
Act	ive Directory Sites and S	ervices						_		^
File A	Action View Help									
🗢 🔿	0 🗐 💥 🛅 🖄	🗟 🛛 ?	F							
Active I	Directory Sites and Servio	ces [Name	e	Site	Location		Туре	D	escriptio	n
Site	s				There are no items t	o chow in this	view			
	Inter-Site Transports				There are no items t	o show in this	VIEW.			
>	Delegate Control									
>	New Subnet									
	Find									
	New	>	Subnet							
	All Tasks	>								
	View	>								
	Refresh									
	Export List									
	Properties									
	Help									
<		> <								>
Create a	new obiect									

Hình 24-7: Thêm Subnet

New Object - Subnet	×
Create in: newstar.vn/Configuration/Sites/Subnets	
Enter the address prefix using network prefix notation (address/prefix length), where the prefix length indicates the number of fixed bits. You can enter either an IPv4 or an IPv6 subnet prefix. Learn more about entering address prefixes.	
IPv4 example: 157.54.208.0/20	
IPv6 example: 3FFE:FFF:0:C000::/64	
Prefix::	
172.16.0.0/16	
Prefix name in Active Directory Domain Services:	
172.16.0.0/16]
Select a site object for this prefix.	1
Site Name	
Hanoi	
OK Cancel Help	

Hình 24-8: Thêm network ở site Hanoi

Ne	ew Object - Subnet	\times
	Create in: newstar.vn/Configuration/Sites/Subnets	
	Enter the address prefix using network prefix notation (address/prefix length), where the prefix length indicates the number of fixed bits. You can enter either an IPv4 or an IPv6 subnet prefix. Learn more about entering address prefixes.	
	IPv4 example: 157.54.208.0/20	
	IPv6 example: 3FFE:FFFF:0:C000::/64	
	Prefix::	
	192.168.1.0/24	
	Prefix name in Active Directory Domain Services:	
	192.168.1.0/24	
	Select a site object for this prefix.	_
	Site Name	
	Hanoi	
_		
	OK Cancel Help	

Hình 24-9: Thêm network ở site HCM

□ Tiến hành nâng cấp lên domain đồng cấp

elect server ro	bles	R2.newstar.vn
Before You Begin	Select one or more roles to install on the selected server.	
Installation Type	Roles	Description
Server Selection	Active Directory Certificate Services	Active Directory Domain Services
Server Roles	✓ Active Directory Domain Services	(AD DS) stores information about
Features	Active Directory Federation Services	this information available to users
AD DS	Active Directory Eightweight Directory Services	and network administrators. AD DS
Confirmation	Device Health Attestation	uses domain controllers to give
	DHCP Server	resources anywhere on the network
	Fax Server	through a single logon process.
	File and Storage Services (1 of 12 installed)	
	Hyper-V	
	MultiPoint Services	
	Network Policy and Access Services	
	Print and Document Services	
	Remote Desktop Services	
	Volume Activation Services	
	Web Server (IIS)	
	Windows Deployment Services	

Hình 24-10: Cài ADDS

Deployment Conf	iguration			TA	RGET SEF R2.newst	₹VER ar.vn
Deployment Configuration Domain Controller Options Additional Options Paths Review Options Prerequisites Check Installation Results	Select the deployment of Add a domain contro Add a new domain to Add a new forest Specify the domain infor Domain: Supply the credentials to	peration o an existing fore mation for this o perform this op	g domain st peration newstar.vn eration		Select	
	NEWSTAR\Administrator	(Current user)		C	hange	
	More about deployment	configurations				

Hình 24-11: Chọn mục đầu tiên

Active Directory Domain Service	s Configuration Wizard		- 0	×
Domain Controlle	r Options		TARGET SERV R2.newstar	'ER .vn
Deployment Configuration Domain Controller Options DNS Options Additional Options	Specify domain controller cap ✓ Domain Name System (DI ✓ Global Catalog (GC) □ Read only domain control	abilities and site information VS) server Ier (RODC)		
Paths	Site name:	Hanoi	v	
Review Options Prerequisites Check Installation Results	Type the Directory Services Re Password: Confirm password:	estore Mode (DSRM) password		
	More about domain controlle	roptions		
		< Previous Next >	Install	

Hình 24-12: Chọn vào site Hanoi

Review Options	TARGET SERVE R2.newstar.v
Deployment Configuration Domain Controller Options DNS Options Additional Options	Review your selections: Configure this server as an additional Active Directory domain controller for the domain "newstar.vn". Site Name: Hanoi
Paths	Additional Options:
Review Options Prerequisites Check Installation Results	Read-only domain controller: No Global catalog: Yes DNS Server: Yes Update DNS Delegation: No Source domain controller: any writable domain controller
	These settings can be exported to a Windows PowerShell script to automate additional installations View script

Hình 24-13: Thông tin cấu hình đã thiết lập

Active Directory Users and Com	puters			-	×
File Action View Help					
⊨ 🔿 🚈 📰 🤾 🗊 🗙 🛛	i 🖬 🛃 🕅	1 🐮 🐮 🖬 🦷	7 🧕 🍇		
 Active Directory Users and Com Saved Queries Inewstar.vn Inewstar.vn Inewstar.vn Domain Controllers Domain Controllers ForeignSecurityPrincipal: Managed Service Accour Users 	Name Denied ROD DisAdmins DisUpdateP Domain Ad Domain Co Domain Co Domain Gou Domain Gou Domain Gou Domain Gou Domain Gou Domain Gue Domain Gue Domain Gue Domain Gue Domain Gue Composition Composition Composition Composition Composition Domain Gue Domain Gue Domain Gue Domain Gue Composition Composition Composition Domain Gue Domain	Type Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group User User Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group	Description Members in this group c DNS Administrators Gro DNS clients who are per Designated administrato All workstations and ser All domain controllers i All domain guests All domain guests Designated administrato Members of this group Members of this group Built-in account for gue Members of this group Members of this group Members of this group Servers in this group Members of this group Servers in this group Designated administrato		
c >					~

Hình 24-14: Tạo user U1 trên R1



Hình 24-15: User U1 đăng nhập ở site Hanoi



Hình 24-16: Site Hanoi có R2

10 Read Only Domain

- □ Chuẩn bị:
 - □ Một máy windows server đã lên DC
 - □ Một máy windows server join Domain
- Mô hình Hanoi



172.16.0.3

- □ Kết quả đạt được
 - Tạo U1 ở domain HCM sau đó ngắt kết nối ở router, u1 vẫn đăng nhập được ở site Hanoi

□ Thực hiện

Routing and Remote Access			_		×
File Action View Help					
🗢 🄿 🖄 📰 🗶 🗐 🙆 🗟					
Routing and Remote Access	RIP				
Gerver Status ♥ (i) WIN-8K9DLCFOK29 (local) ③ Network Interfaces ④ Remote Access Logging ♥ ④ IPv4 ④ General ④ Static Routes ③ RIP ▶ ④ IPv6	Interface 당 단thernet1 당 단thernet0	Update mode Periodic Periodic	Responses sent 1 1	Res 0 0	ponses
< >>	٢			31	>

Hình 25-1: Card mạng tham gia định tuyến

	• (;	🕄 🚩 Manage <u>Tools</u> View Help
		Active Directory Administrative Center
		Active Directory Domains and Trusts
		Active Directory Module for Windows PowerShell
		Active Directory Sites and Services
		Active Directory Users and Computers
1		ADSI Edit
		Component Services
		Computer Management
		Defragment and Optimize Drives
ad		Disk Cleanup
		DNS

Hình 25-2: Chọn ADSS



Hình 25-3: New □*Site*

New Object	- Site					×
	Create in: news	tar.vn/Configur	ation/Site	s		_
Name: Select a sit	Hanoi e link object for th	is site. Site link	objects ar	re located in the	;]
Link Nam		ritainer.		Transport		
				OK	Cancel	

Hình 25-4: Thêm site Hanoi

 \times

Active Directory Domain Services

Site Hanoi has been created. To finish configuration of Hanoi:

Ensure that Hanoi is linked to other sites with site links as appropriate.

Add subnets for Hanoi to the Subnets container.

Install one or more Domain Controllers in Hanoi, or move existing DCs into the site.

You will not see this message again until the next time you start Active Directory Sites and Services.



Hình 25-5: Site Hanoi được tạo

📲 Active Directory Sites and Servic	ces			_	×
File Action View Help					
🗢 🄿 🙍 📰 🗙 🖾 🧟	🛛 🖬 🔎				
Active Directory Sites and Services [Sites Sites IP SMTP Subnets REM HCM	Name PNTDS Site Se Servers	Type Site Settings Servers Contai	Description		
< >					

Hình 25-6: Chỉnh sửa file mặc định thành HCM

Active	Directory Sites and Service	es						-		\times
File Act	ion View Help									
🗢 🔿 🛛	2 🖬 🗙 🗐 Q 🗟	?	DI D							
Active Dire	ectory Sites and Services [Nam	ne	Site	Location		Туре	C	escriptio)	n
Sites	er-Site Transports				There are no items	to show in th	nis view.			
>	Delegate Control New Subnet Find									
	New	>	Subnet							
	All Tasks	>								
	View	>								
	Refresh Export List									
	Properties									
	Help									
<	>	<								>
Create a ne	w object									

Hình 25-7: Thêm Subnet

New Object - Subnet	\times
Create in: newstar.vn/Configuration/Sites/Subnets	
Enter the address prefix using network prefix notation (address/prefix length), where the prefix length indicates the number of fixed bits. You can enter either an IPv4 or an IPv6 subnet prefix. Learn more about entering address prefixes,	
IPv4 example: 157.54.208.0/20	
IPv6 example: 3FFE:FFF:0:C000::/64	
Prefix::	
172.16.0.0/16	
Prefix name in Active Directory Domain Services:	
172.16.0.0/16]
Select a site object for this prefix.	
Site Name	
Hanoi HCM	
OK Cancel Help	

Hình 25-8: Thêm network ở site Hanoi

New Object - Subnet	×
Create in: newstar.vn/Configuration/Sites/Subnets	
Enter the address prefix using network prefix notation (address/prefix length), where the prefix length indicates the number of fixed bits. You can enter either an IPv4 or an IPv6 subnet prefix. Learn more about entering address prefixes.	
IPv4 example: 157.54.208.0/20	
IPv6 example: 3FFE:FFFF:0:C000::/64	
Prefix::	
192.168.1.0/24]
Prefix name in Active Directory Domain Services:	
192.168.1.0/24]
Select a site object for this prefix.	-
Site Name	
Hanoi	
OK Cancel Help	

Hình 25-9: Thêm network ở site HCM

□ Tiến hành nâng cấp lên domain RODC

Active Directory Domain Service	s Configuration Wizard			- 0	×
Domain Controlle	r Options			TARGET SE R2.newst	RVER tar.vn
Deployment Configuration Domain Controller Options RODC Options Paths Review Options Prerequisites Check Installation Results	Specify domain controller of Domain Name System Global Catalog (GC) Read only domain cont Site name: Type the Directory Services Password: Confirm password:	capabilities and site information (DNS) server troller (RODC) Hanoi troller (RODC) Restore Mode (DSRM) password **	v		
	More about domain contro	oller options			
		< Previous Next >	Install	Cance	el

Hình 25-10: Chọn RODC

Active Directory Domain Service	s Configuration Wizard	11 201 22	. 🗆	×
RODC Options			TARGET SE R2.news	RVER tar.vn
Deployment Configuration Domain Controller Options RODC Options	Delegated administrator account NEWSTAR\Administrator Clea	ir	Select	
Paths Review Options Prerequisites Check Installation	NEWSTAR\Allowed RODC Password Replication Group	Add Remove		
Results	BUILTIN\Administrators BUILTIN\Server Operators BUILTIN\Backup Operators If the same account is both allowed and denied, denied takes precedence	• •	Add Remove	
	More about RODC options	Install	Canc	el

Hình 25-11: Thiết lập RODC

		~
eview Options	TARGET SI R2.news	ERVER star.vn
Deployment Configuration	Review your selections:	
Domain Controller Options RODC Options	Configure this server as an additional Active Directory domain controller for the domain "newstar.vn".	^
Additional Options	Site Name: Hanoi	
Paths	Additional Options:	
Review Options Prerequisites Check	Read-only domain controller: Yes	
	Global catalog: Yes	
	DNS Server: Yes	
	Update DNS Delegation: No	
	Source domain controller: any writable domain controller	~
	These settings can be exported to a Windows PowerShell script to automate additional installations View scri	ipt
	More about installation options	

Hình 25-12: Thông số cấu hình RODC

Properties						?	×
General	Operatin	g System		Member Of		Delegati	on
Password Repli	cation Policy	Lo	ocation	Mana	ged By	Dia	al-in
This is a Read-on computers passw accounts that are eplicated to the I Groups, users an	ly Domain Cor ords according in the Allow g RODC. d computers:	ntroller (RC g to the po proups and	DC). An R licy below. not in the l	ODC store: Only pass Deny group	s users an words for is can be	d	
Name	Ad	tive Direct	ory Dom	Setting			
Account Operat	ors ner	wstar.vn/E	luiltin	Deny			
Administrators	ner	wstar.vn/E	luiltin	Deny			
Allowed RODC	Passw ne	wstar.vn/l	lsers	Allow			
Backup Operate	ors net	wstar.vn/E	luiltin	Deny			
Denied RODC	Passwo nei	wstar.vn/l	lsers	Deny			
Server Operator	s nei	wstar.vn/B	luiltin	Deny			
Advanced			Add		Remove		
		ОК	Cance	I	Apply	Н	elp

Hình 25-13: Thêm Group

2 Properties						1	
General	Operating Sy	stem	Mer	nber Of	C	elegation)	n
Password Repl	ication Policy	Locati	on	Managed I	By	Dial-	in
This is a Read-or computers passw accounts that are replicated to the Groups, users an	nly Domain Controll ords according to a in the Allow group RODC. d computers:	er (RODC). the policy b os and not i	. An ROD below. On in the Den	C stores user Ily passwords Iy groups car	rs and for be		
Na Add Grou	ps, Users and Co	mputers					
Ac Ac Ac Ac Choose the setting for the account you are adding to the password replication policy. Ba De O Allow passwords for the account to replicate to this RODC							
⊖ Deny	passwords for the	account fr	rom replica	iting to this R	ODC		
			C	Ж	Canc	el	
Advanced			Add	Remo	ove		
	OK		Cancel	Appl	v	Hal	n

Hình 25-14: Tài khoản quản lý RODC

Select Users, Computers, Service Accounts, or Groups	×
Select this object type:	
Users, Computers, Service Accounts, Groups, or Built-in security princip	Object Types
From this location:	
newstar.vn	Locations
Enter the object names to select (<u>examples</u>):	
HCM	Check Names
Advanced OK	Cancel

Hình 25-15: Chọn Group

R2	Properties								?	×
	General	Oper	ating Sy	stem	М	ember	Of	[Delegatio	on
	Password Replication Pol		icy	Loca	tion	Ma	maged [By	Dial-in	
- 2 1 (This is a Read-only Domain Controller (RODC). An RODC stores users and computers passwords according to the policy below. Only passwords for accounts that are in the Allow groups and not in the Deny groups can be replicated to the RODC.									
[Name		Active	Directory	Dom	Settin	a]	
	Account Operat	ors	newsta	r vn/Builti	in	Denv	-			
	Administrators		newsta	r.vn/Builti	in	Deny				
	Allowed RODC	Passw	newsta	r.vn/User	s	Allow				
	Backup Operato	ors	newsta	r.vn/Builti	in	Deny				
	Denied RODC F	asswo	newsta	r.vn/User	s	Deny				
	HCM Server Operator	-	newsta	r.vn/User	5	Allow				
	Server Operator	5	newsta	I.VII/ Dullu		Deny				
	Advanced				Add		Remo	ve		
			ОК		Cancel		Аррђ	/	H	elp

Hình 25-16: Tài khoản đã được thêm

11 Trust domain

Sau khi học bài này xong sinh viên có khả năng xây dựng hệ thống quản lý domain của 2 domain khác nhau

- □ Chuẩn bị:
 - + Một máy server chưa cài hệ điều hành
 - + Một file iso server 2016
- \square Mô hình







- □ Kết quả đạt được
 - Tạo tài khoản u1 ở domain newstar sang domain test đăng nhập thành công
 - □ Share folder ở domain newstar sang domain test truy cập thành công

Thực hiện

Dể thự hiện bài này phải tạo hai domain với tên khác nhau. DNS của 2 domain được forward hai lại với nhau

🚊 DNS Manager				_	
File Action View Help	R1 Properties		? ×		
← ➡ 2 📰 🗙 🗐 🤇	Debug Logging	Event Logging	Monitoring Security		
✓] R1 Ec	dit Forwarders			×	
> 📔 Forward Lookup > 📋 Reverse Lookup 🏾 IF	^o addresses of forwarding	servers:			
> Trust Points	IP Address	Server FQDN	Validated	Delete	
	<click a<="" add="" an="" here="" ip="" td="" to=""><td>ddress or DNS Name></td><td></td><td>11-</td><td></td></click>	ddress or DNS Name>		11-	
	192.168.1.2	R2	OK	Up	
				D <u>o</u> wn	
N	umber of seconds before t	orward queries time out:	3		
TI CC	he server FQDN will not be onfigured.	available if the appropriate	reverse lookup zones and e	ntries are not	
			OK	Cancel	





Hình 26-2: kiểm tra kêt nối bằng tên

 ▲ DNS Manager File Action Vie ← ● 2 □ 	Edit Forwarders	×	×	
> ER2	IP Address Server FQDN Validated Colick here to add an IP Address or DNS Name >	<u>D</u> elete		
	V 192. 108. 1. 1 <attempting ok<="" resolve="" th="" to=""><th>Down</th><th></th><th></th></attempting>	Down		
	Number of seconds before forward queries time out: 3 The server FQDN will not be available if the appropriate reverse lookup zones and entries are r configured.	not		
	ОК	Cancel		

Hình 26-3: Forword DNS ở R2

Administrator: Command Prompt	_	×
Pinging newstar.vn [192.168.1.1] with 32 bytes of data: Reply from 192.168.1.1: bytes=32 time<1ms TTL=128 Reply from 192.168.1.1: bytes=32 time<1ms TTL=128 Reply from 192.168.1.1: bytes=32 time<1ms TTL=128 Reply from 192.168.1.1: bytes=32 time<1ms TTL=128		^
<pre>Ping statistics for 192.168.1.1: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms C:\Usens\Administraten>ping test com</pre>		
Pinging test.com [192.168.1.2] with 32 bytes of data: Reply from 192.168.1.2: bytes=32 time<1ms TTL=128 Reply from 192.168.1.2: bytes=32 time<1ms TTL=128 Reply from 192.168.1.2: bytes=32 time<1ms TTL=128 Reply from 192.168.1.2: bytes=32 time<1ms TTL=128		
Ping statistics for 192.168.1.2: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms		

Hình 26-4: Kiểm tra kết nối bằng tên

Active Dire	ectory Domains and Trust Nam	e	Туре	Actions
💓 newsta	Manage		There are no items to show in this view.	newstar.vn
	Raise Domain Functional Le	vel		More Actions
	View	>		
	Export List			
	Properties			
	Help			
6				

Hình 26-5: Chọn ADDT

newstar.vn Prope	newstar.vn Properties							
General Trusts	Managed E	Зу						
Domains trusted	by this doma	iin (outgoing tr	usts):					
Domain Name		Trust Type	Transitive	Propertie	s e			
Domains that tru:	st this domai	n (incoming tru Trust Type	sts): Transitive	Propertie Remov	s e			
New Trust		Cancel	Apply	He	elp			

Hình 26-6: Properties newstar



Hình 26-7: Màn hình chào

New Trust Wizard X
Trust Name You can create a trust by using a NetBIOS or DNS name.
Type the name of the domain, forest, or realm for this trust. If you type the name of a forest, you must type a DNS name.
Example NetBIOS name: supplier01-int Example DNS name: supplier01-internal.microsoft.com
Name:
test.com
< Back Next > Cancel

Hình 26-8: Nhập test.com

New Trust Wizard	×
Trust Type This domain is a forest root domain. If the specified domain qualifies, you can create a forest trust.	
Select the type of trust you want to create. O External trust An external trust is a nontransitive trust between a domain and another domain outside the forest. A nontransitive trust is bounded by the domains in the relationship).
Forest trust A forest trust is a transitive trust between two forests that allows users in any of the domains in one forest to be authenticated in any of the domains in the other forest.	
< Back Next > Can	cel

Hình 26-9: Forest trust

New Trust Wizard	×
Direction of Trust You can create one-way or two-way trusts.	
Select the direction for this trust.	
Two-way Users in this domain can be authenticated in the specified domain, realm, or forest, and users in the specified domain, realm, or forest can be authenticated in this domain.	
One-way: incoming Users in this domain can be authenticated in the specified domain, realm, or forest	
One-way: outgoing Users in the specified domain, realm, or forest can be authenticated in this domain	
< Back Next > Ca	incel

Hình 26-10: Two-way

New Trust Wizard	×
Sides of Trust If you have appropriate permissions in both domains, you can create both sides of the trust relationship.	R
To begin using a trust, both sides of the trust relationship must be created. For exampl if you create a one-way incoming trust in the local domain, a one-way outgoing trust must also be created in the specified domain before authentication traffic will begin flowing across the trust.	e,
Create the trust for the following:	
 This domain only This option creates the trust relationship in the local domain. 	
Both this domain and the specified domain This option creates trust relationships in both the local and the specified domains. You must have trust creation privileges in the specified domain.	
< Back Next > Ca	incel

Hình 26-11: Both this domain

New Trust Wizard	l		×					
User Name and Password To create this trust relationship, you must have administrative privileges for the specified domain.								
Specified do	Specified domain: test.com							
Type the us the specified	er name and p d domain.	assword of an account that has administrative privileges in	ı					
<u>U</u> ser name:	s	test.com\administrator	~					
Password:	••	•••••						
		< <u>B</u> ack <u>N</u> ext > C	Cancel					

Hình 26-12: Nhập tài khoản của domain test



Hình 26-13: Chọn chứng thực chiều in

New Trust Wizard	×
Outgoing Trust Authentication Level—Specified Forest Users in the local forest can be authenticated to use all of the resources in the specified forest or only those resources that you specify.	
Select the scope of authentication for users from the local forest.	
Forest-wide authentication Windows will automatically authenticate users from the local forest for all resource test.com forest. This option is preferred when both forests belong to the same organization.	es in the
Selective authentication Windows will not automatically authenticate users from the local forest for any res in the test.com forest. After you finish this wizard, grant individual access to each and server that you want to make available to users from the local forest. This op preferred if the forests belong to different organizations.	ources domain tion is
< Back Next > C	lancel

Hình 26-14: Chọn chứng thực chiều out

New Trust Wizard	×	
Trust Selections Complete The New Trust Wizard is ready to create the trust.	Ŗ	
You have selected the following trust settings:		
This domain: newstar.vn Specified domain: test.com	^	
Direction: Two-way: Users in the local domain can authenticate in the specified domain and users in the specified domain can authenticate in the local domain.		
Trust type: Forest trust	~	
To make changes to this trust, click Back. To create the trust, click Next.		
< Back Next >	Cancel	

Hình 26-15: Quá trình thiết lập thành công

New Trust Wizard	×
Confirm Outgoing Trust You should confirm this trust only if the other side of the trust has been created.	
Do you want to confirm the outgoing trust?	
◯ No, do not confirm the outgoing trust	
Yes, confirm the outgoing trust	
To confirm the trust now, click Next.	
< Back Next >	Cancel

Hình 26-16: Thiết lập chiều out thành công


Hình 26-17: Thiết lập chiều in thành công



Hình 26-18: Thiết lập thành công

st.com Properties			? ×
General Trusts Managed	By		
Domains trusted by this dom	ain (outgoing tr	usts):	
Domain Name	Trust Type	Transitive	Properties
newstar.vn	Forest	Yes	Remove
Domains that trust this doma	in (incoming tru	sts):	Descation
Domains that trust this doma	in (incoming tru Trust Type	sts): Transitive	Properties
Domains that trust this doma Domain Name newstar.vn	iin (incoming tru Trust Type Forest	sts): Transitive Yes	Properties Remove
Domains that trust this doma Domain Name newstar.vn New Trust	iin (incoming tru Trust Type Forest	sts): Transitive Yes	Properties Remove

Hình 26-19: Trust thành công

Active Directory Users and Com	puters			-	×
File Action View Help					
🗢 🔿 🙍 📰 🔏 📋 🗙 🛙	i 🙆 🔒 🔽 🗖	1 🐮 🐮 🐩	7 🧕 😹		
 Active Directory Users and Com Saved Queries In newstar.vn Builtin Computers Domain Controllers ForeignSecurityPrincipal: Managed Service Accour Users 	Name Denied ROD DisAdmins DisAdmins Domain Ad Domain Ad Domain Con Domain Con Domain Gue Domain G	Type Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group User User Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group Security Group	Description Members in this group c DNS Administrators Gro DNS clients who are per Designated administrato All workstations and ser All domain guests All domain guests All domain users Designated administrato Members of this group Members of this group c Built-in account for gue Members of this group Members of this group Members of this group Servers in this group Members of this group Servers in this group Members of this group Designated administrato		<
	<u> </u>				

Hình 26-20: Tạo user U1 ở domain newstar



Hình 26-21: Đăng nhập U1 ở domain test

Tạo folder Data trên domain newstar. Sau đó cho User U2 ở domain test truy cập

Select Users, Computers, Service Accounts, or Groups	×
Select this object type:	
Users or Groups	Object Types
From this location:	
test.com	Locations
Enter the object names to select (<u>examples</u>):	
1	Check Names
	Consel
Advanced OK	Cancel

Hình 26-22: Chọn tài khoản domain test để truy cập vào tài folder

Select Users, Computers, Service Accounts, or Groups		×
Select this object type:		
Users or Groups	C	bject Types
From this location:		
test.com		Locations
Enter the object names to select (<u>examples</u>):		
u2 (u2@test.com)	(Check Names
Advanced	ОК	Cancel

Hình 26-23: Chọn tài khoản U2 trên domain test

및 📝 🔜 🚽 Data File Home Share View	-	- □ × ~ (?
← → ∽ ↑ 🖵 > Network > r1 > Data	✓ ひ Search Data	م
A Name	Date modifie This folder is empty.	d Type
v <		>
0 items		

Hình 26-24: U2 truy cập vào folder Data

12. Windows server backup

Khi làm công tác quản trị mạng vấn đề an toàn dữ liệu luôn được chúng ta chú trọng với các công việc đảm bảo cho chúng luôn ở mức độ an toàn cao. Không may một ngày nào đó cả hệ thống bị nhiễm virus trầm trọng, phòng chứa server rủi ro xảy ra hoả hoạn... những gì còn lại bây giờ là một hệ thống với dữ liệu bị tàn phá nặng nề hoặc mọi thứ đã biến thành tro khi cháy nổ xảy ra.Chính vì thế Windows khuyến cáo bạn nên sao lưu dự phòng dữ liệu sang một nơi khác vị trí địa lý với nơi đặt server và nếu tốt hơn là sao lưu dự phòng với tần suất mỗi ngày một lần là tốt hơn cả.

Nhưng hãy tượng tượng xem không lẽ mỗi ngày ta phải sao lưu cả hệ thống hàng chục thậm chí hàng trăm **GB** ra đĩa và đem cất đi, ngày qua ngày thì chi phí cho ta đầu tư để dự phòng dữ liệu có lẽ là một con số khổng lồ mà với qui mô nhỏ may ra còn kham nổi, nhưng với những công ty có đến hàng trăm máy thì e ra có vẻ kinh khủng quá

<u>Chuẩn bị</u>:

PC1: Windows server 2008 PC2: Windows server 2008 PC2: Tạo User U1 password 123 . Tạo và Share thư mục BACKUP trên ổ C phân quyền cho U1 quyền Everyone- Full control trên thư mục này.

Thực hiện: Trên PC1

1. BACKUP

B1: Mở server manager click chuột phải lên Feature chọn Add Features



B2: Màn hình Welcom chọn next chọn Windows server backup Features chọn next chọn Install



B3: Tạo thư mục C:\DATA và 2 File text tên Dulieu1.txt và Dulieu2.txt



B4: Mở Windows server backup trong Administrtive tools khung Action chọn Backup one

File	Action View Help			
¢= =	Backup Schedule			
Wir	Backup Once Recover	cal)		Actions
34	Configure Performance Settings	kup or schodulo	Windows Server Backup (Local)	
3	Connect To Another Computer	- kup of schedule		🛃 Backup Schedule
4	Help	computer. Use Backup		😸 Backup Once
Mes	sanes			1 Recover

B5: Cửa sổ Backup Options chọn Different Options chọn next

🕼 Backup Once Wizard				
Backup op	otions			
Backup options	Create a backup now using:			
Select backup configur Specify destination type	C The same options that you used in backups			
Specify advanced option	Different options			

B6: Hộp thoại Select Backup configuration chọn Custom chọn Next



B7: Hộp thoại Select backup items Chọn Server(C) Bỏ dấu check trước dòng Enable system recovery chọn next

ackup options	What volumes do you want to back up?			
elect backup configur		Volumes 🔺	Status	Size
elect backup items		WINDOWS 2008 (C:)	Included	8.07 GB
pecify destination type				
pecify advanced option				
Confirmation				
Johnmauon				

B8: Hộp thoại Specify destination type chọn Remote shared folder chọn

Specify destination type				
Specify destination type Specify remote folder	 Remote shared folder For example, \/MyFileServer\SharedFolderName\ 			

B9: Trong phần **Type the path to the Remote shared folder** gõ <u>\\PC2\BACKUP</u> Chọn **Do not inherit** chọn **next**

Backup Once Wizard	emote folder
Backup options Select backup configur	Type the path to the remote shared folder: \\PC\BACKUP
Select backup items	For example, \\MyFileServer\SharedFolderName\
Specify destination type	A folder named 'WindowsImageBackup' will be created inside the speci to store the backup.
Specify advanced option Confirmation Backup progress	Access Control C Do not inherit This option makes the backup accessible only for the user whose credentials are provided in the next step.
	Inherit

B10: Hộp thoại xác nhận quyền: điền vào U1 password 123 chọn OK



B11: Hộp thoại Specify advanced option chọn vss copy backup (recommended) chọn next chọn next



B12: Chọn Backup sau khi Backup xong chọn Close

B13: Trên PC2 mở thu mục BACKUP chọn WindowsImageBackup chọn PC1 Quan sát nơi chứa các file backup từ PC1



2. RECOVER

Trước khi Restore giả lập mất dữ liệu bằng cách **PC1** xóa thư mục **DATA** Tiến hành khôi phục dữ liệu

B1: Trong chương trình Windows server Backup trong khung Action chọn Recover

File	Action View Help		
	Backup Schedule Backup Once		
Wir	Recover	cal) 📫	Actions
21	Configure Performance Settings	kup or cohodulo	Windows Server Backup (Local)
3	Connect To Another Computer	- Kup of schedule	🖢 Backup Schedule
4	Help	computer. Use Backut	Backup Once
Mare			Necover

B2: Hộp thoại Getting started chọn Another server chọn next

Recovery Wizard	tarted
Getting started	You can use this wizard to recover files, applications, and v
Specify location type Select backup location Select backup date Select recovery type	 recover data from the local computer or another computer. Which server do you want to recover data from? This server (SERVER) Another server

B3: Specify remote folder gõ <u>\\PC2\BACKUP</u> chọn Next

Recovery Wizard		
Specify location type		
Getting started Specify location type Specify remote folder	Choose the type of storage that contains the backup: C Local drives For example, local disk (D:), DVD drive (E:)	
Select backup date Select recovery type	Remote shared folder For example, \WyFileServer\SharedFolderName\	
Recovery Wizard	remote folder	
Getting started Specify location type	Type the path to the remote shared folder that contai	
Specify remote folder	For example, \WyFileServer\SharedFolderName\	

B4: Điền usename và password của U1 chọn Ok



B5: Select backup date chon next



B6: Select recovery type chon Files and folders chon next

🗽 Recovery Wizard	
Select re	covery type
Getting started Specify location type Specify remote folder Select backup date	What do you want to recover? Files and folders You can browse volumes included in this ba C Applications
Select recovery type	You can recover applications that have reg
Select items to recover	C Volumes

B7: Select Items to recover chon thu muc DATA chon next

Select ite	ms to recover	
Getting started Specify location type Specify remote folder	Browse the tree to find the files or fol for recovery. Available items:	ders that you want to
Select recovery type Select items to recover	G-WINDOWS 2008 (C:) G-SRecycle.Bin BACKUP	DuLieu 1.txt DuLieu 2.txt
Specify recovery options	Boot DATA	

B8: Specify recovery options giữ mặc định chọn next

Getting started	Recovery destination
Specify location type	Original location
Specify remote folder	C Another location
Select backup date	
Select recovery type	Browse
Select items to recover	
Specify recovery options	Create cepies on I have both versions of the file or folder
Confirmation	C care topies so i nave boar versions of the file of folder
Deservery erseres	Overwrite existing files with recovered files
Recovery Drouress	

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B9: chọn Recover



Kiểm tra trên **PC1**: Sau khi Recover hoàn tất , mở ổ C quan sát thấy Folder **DATA** và các File trong **DATA** đã được khôi phục.