

Cấu hình VPN qua ADSL

Mô hình:



Site Hà Nội Có Domain name đăng ký trên No-IP mcsa2k3.no-ip.info Site Sài Gòn Có Domain name đăng ký trên No-IP nhatnghe.no-ip.info

I Chuẩn bị:

Mô hình gồm 2 nhóm, mỗi nhóm 2 máy khởi động P1 (đã có ISA 2004)
 Trên máy ISA của 2 nhóm cài chương trình **DucSetup.exe** để cập nhật địa chỉ IP với Domain name đã đăng ký trên No-IP

- Trên máy Domain Controller của 2 nhóm

Tạo User và cho quyền Allow Access	Site Hà Nội	Site Sài Gòn
Username	saigon	hanoi
Password	123	123

II. Cấu hình VPN trên Site Hà Nội





\rightarrow \dot{O} cửa số W	ellcome to the New Network,	\rightarrow Ö cửa số VPN Protocol , Chọn Point – to –
nhập Network 1	name là SaiGon → Next	Point Tunneling Protocol (PPTP) \rightarrow Next
New Site-to-Site Network Wi	welcome to the New Network Wizard This wizard helps you create a new network. Networks specily one or more ranges of IP addresses as a network object that can be used in rules. Ngtwork name: saigorl To continue, click Next. Kack Next.> Cancel	New Site-to-Site Network Witzard VPN Protocol Select the VPN protocol used to protect traffic sent between the sites. IP Security protocol (IPSec) tunnel mode Provides high security and interoperability with third party VPN vendors. Layer Two Tunneling Protocol (L2TP) over IPSec Provides a highly secured connection method. Point-to-Point Tunneling Protocol (PPTP) Provides a secured connection method. (PPTP) Provides a secured connection method. (Back (Pace (Back (Back (Back (Cancel
→ Ở cửa sổ Re Sài Gòn → Nex VD: Site Sài Go No-in là nhatn	mote Site Gateway, gõ site bên t on có domain name đăng ký trên ghe no-in info	 → Ở cửa sổ Network Addresses, chọn Add → Nhập địa chỉ Internal Address bên site Sài Gòn → Next
New Site-to-Site Network W	fizard X	New Site-to-Site Network Wizard
Remote Site Gateway Specify the name or IP	address of the remote site VPN server.	Network Addresses Define the IP addresses for this network, You can add IP address ranges, IP address ranges associated with a network adapter, and private IP ranges.
<u>R</u> emote VPN Server na nhatnghe.no-ip.info	me or IP address:	Address ranges: Start Address End Address Add 172.16.9.0 172.16.9.200 Edit Eemove Eemove
	< Back Next > Cancel	<u> </u>



→ Ở cửa số Remote Authentication, đánh dấu chọn vào Local site can initiate connection to remote, Ở dòng Username và Password gõ username là hanoi, pasword 123, tên Domain Name là của site Sài Gòn → Next	$\rightarrow \mathring{O} \text{ cửa sổ Local Authentication, chọn Next} \rightarrow$ Finish $\rightarrow OK$ (để Routing Remote Access restart) \rightarrow Apply $\rightarrow OK$		
Remote Authentication Enable this option if you want to allow the local site to initiate connections to the remote site. You must provide credentials for the connection. Image: Local site can initiate connections to remote site using these credentials: User name: hanoi Domain: nhom9 Password: •••••••	Microsoft: Internet Security & Acceleration Server2004 Completing the New Network Wizard You have successfully completed the New Network Wizard. The new network will have the following configuration. Name: saigon Protocol PFTP Addlesses: To reaffic to pass through this network, further configuration steps are lequired. Help about further configuration steps To close this wizard, click Finish.		
Kack Next> Cancel	<u>Back</u> Cancel		
B2. Vào mục Configuration, phải chuột trên Network chọn New Network Rule.Network Rule Name gõ Saigon to Internal → Next	$ \rightarrow \mathring{O} \text{ cửa số Network Traffic Source, Chọn nút} Add \rightarrow \text{Bung dấu cộng Network chọn Site} SaiGon \rightarrow \text{Add} \rightarrow \text{Next} $		
Walcome to the New Network	Network Traffic Sources		

Microsoft Internet Security & Acceleration Server 2004	Welcome to the New Network Rule Wizard This wizard helps you create a new Network rule. Network rules define the relationship between network entities as either route or network address translation (NAT).	Network Traffic Sources This rule will apply to traffic originating from the sources specified in this page. This rule apples to traffic from these sources: Image:
	KEack Next Cancel	Lence



Internal -> Next	\rightarrow Next \rightarrow Finisk			
Network Traffic Destinations This rule will apply to traffic arriving at the destinations specified in this page.	New Network Rule Wizard Network Relationship Specity how traffic is sent between the source and destination network entities.			
This rule applies to traffic sent to these destinations:	 Network Address Iranslation (NAT) ISA Server hides computers in the sources by replacing their network IP addresses in outgoing traffic with its own external IP address. Fourte ISA Server routes traffic between the sources and destinations (no network address translation is used). Route relationships are bi-directional. 			
	< <u>Back</u> New Cancel			

B3. Phải chuột trên Vitrual Private Network		→ trong tab Address Assignment, chọn nút Add		
$(VPN) \rightarrow Proper$	rties. Trong tab Access	trong mục Static Address Pool, nhập range địa		
Network, đánh d	ấu chọn site saigon	chỉ IP cấp cho Sài Gòn remote \rightarrow Apply \rightarrow OK		
Virtual Private Net	tworks (VPN) Properties	Virtual Private Networks (VPN) Properties		
Access Networks	Address Assignment Authentication RADIUS	Access Networks Address Assignment Authentication RADIUS		
For VPN client con initiate connection	nnections, select the networks from which clients can ns to the VPN server.	Select the IP address assignment method:		
For site-to-site co the VPN gateway	nnections, select the local network whose adapter is used for connecting to the remote site.	IP address range: Start Address End Address 172.16.11.201 172.16.11.294 Edt		
These settings ar	e common to all VPN clients and site-to-site			
connections.				
Name	Description Built-in network object representing	Remove		
□ de Internal ☑ de saigon	Network representing the internal r This network represents a remote \	C. Domarrie Hest: Configuration Protocol (DHCP)		
Al Netwo Al Prote	orks (and Local This predefined network set include cted Networks This predefined network set include	Line the following natural to obtain DH/D. DNS and WINS carrier:		
		Advanced settions are only annihable for Advanced		
		remote VPN clients.		
-				
B4 . Phải chuột trê	ên Firewall Policy, chọn New	\rightarrow O man hinh Rule Action cho quyên Allow \rightarrow		
Access Rule, mài	n hình Well come gõ Rule Name	Next. O màn hình Protocol chọn All Outbound		
Sai Gon to Inter	nal → Next	traffic \rightarrow Next. O màn hình Access Rule Soure		
		\rightarrow Add \rightarrow chọn site SaiGon \rightarrow Add \rightarrow Next		
New Access Rule Wizard	X	New Access Rule Wizard		
	Welcome to the New Access	Access Rule Sources This rule will apply to traffic originating from the sources specified in this page.		
Internet Security &	Rule Wizard			
	This wizard helps you create a new access rule. Access rules define the action that is taken, and the protocols that	This rule applies to traffic from these sources:		
	may be used, when specified clients from one network attempt to access specific destinations or content on any time thread to be a set of the	-saigon		
	anomer network.	<u>E</u> dk		
		<u>R</u> emove		
	Access rule name:			
	saigon to Internal			
	To continue, click Next.			
	KBack Next> Cancel	Cancel		



TRUNG TÂM ĐÀO TẠO MẠNG MÁY TÍNH **NHẤT NGHỆ** 105 Bà Huyện Thanh Quan - 205 Võ Thị Sáu, Q3, TP. HCM Tel: 9.322.735 – 0913.735.906 Fax: 9.322.734 www.nhatnghe.com

\rightarrow $ m \mathring{O}$ màn hình Access Rule Destinations \rightarrow	\rightarrow Phải chuột trên Firewall Policy \rightarrow New
$Add \rightarrow chon Internal \rightarrow Next \rightarrow chon All$	Access Rule, Network Rule Name gõ Internal to
Users \rightarrow Finish	Sai Gon → Next
New Access Rule Wizard	New Access Rule Wizard
Access Rule Destinations This rule apply to traffic sent from the rule sources to the destinations specified In this page. This rule applies to traffic sent to these destinations: Add Edk Remove	Microsoft Internet Security & Acceleration Server2004 This weard helps you create a new access rule. Access may be used, when specified clerits from one network, attempt to access specific destinations or content on another network. Access rule name: internal to saigon To continue, click Next.
< Back Next Cancel	< Back Next Cancel

\rightarrow Ö màn hình Access Rule Source			
$\mathbf{ations} \to \mathbf{Add} \to \mathbf{site} \ \mathbf{SaiGon} \to \ \mathbf{Next} \to$			
$II Users \rightarrow Next \rightarrow Finish$			
cess Rule Wizard			
ess Rule Destinations This rule will apply to traffic sent from the rule sources to the destinations specified in this page.			
rule applies to traffic sent to these destinations:			
saigon			
<u></u> emove			
K Back Next> Cancel			

B5. Mở Routing Remote Access , phải chuột lên	Configure Device - WAN Miniport (PPTP)
Port → Properties → chọn WAN minipor	You can use this device for remote access requests or demand-dial connections.
PPTP, kiểm tra đã chọn Remote access và	Bemote access connections (inbound only)
Demaind Dial → Retart Routig Remote Access	Demand-dial round connections (information only)
	Phone number for this device:
	You can set a maximum port limit for a device that supports multiple ports.
	Maximum ports: 5



B6. Trên máy ISA mở giao diện cấu hình Router ADSL vào mục NAT để Nat port 1723 vào đúng máy ISA

liay ISA				
ZvXEL				
TOTAL INTERNET ACCESS SOLUTION	NAT EAST	MAT Course Cod		
	NAT • Edit SU	A/NAT Server Set		
Wizard Setup		Start Port No	End Port No	IP Address
		Start Fortho.	Ena i ortito.	II Autros
Advanced Setup	1	All ports	All ports	0.0.0.0
 Password 	2	1723	1723	192.168.1.2
C LAN	3	0	0	0000
e NAT	3	0	<u> </u>	0.0.0.0
	4	0	0	0.0.0.0
 Dynamic DNS 	5	0	0	0.0.0.0
Remote Management	6	0	0	0.0.0.0

III. Cấu hình VPN trên Site Sài Gòn

- Trên máy ISA bật chức năng Remote Site
- Tạo Remote Site name là Hà Nội
- VPN Protocol là PPTP
- Remote đến site Hà Nội với servername là mcsa.no-ip.info
- Network Address là range IP internal của Site Hà Nội
- Username và Password gõ username là saigon, pasword 123, tên Domain

Name là của site Hà Nội

- Tạo Network Rule với rule name: HaNoi to Internal
 - Source : là hanoi
 - **Destination :** là internal
 - Network Relationship chọn đi bằng đừơng Route
- Properties Vitrual Private Network \rightarrow chon connection hanoi
- Cấp IP để site Hà Nội connect tời Sài Gòn
- Tạo 2 rule Firewall Policy để connect giữa Sài Gòn và Hà Nội
- Mở Routing Remote Access, kiểm tra port
- Restart Routing Remote Access
- Mở giao diện cấu hình ADSL để NAT port 1723 vào máy ISA

IV. Kiểm Tra

- Đứng máy DC bên site Hà Nội truy xuất vào máy DC Sài Gòn