

# LAB 2.2. WINDOWS 7 FIREWALL

## I, GIỚI THIỆU

Bài lab dùng 01 máy Windows 7 thực hiện cấu hình một số tính năng của Windows 7 Firewall

Các bước thực hiện:

- A. Khảo sát Windows Firewall Basic Interface
- B. Dùng Windows Firewall Advanced Security Snap-in cấm truy cập internet



### II. THỰC HIỆN

#### A. Windows Firewall Basic Interface

- Start  $\rightarrow$  Control Panel  $\rightarrow$  System and Security  $\rightarrow$  Windows Firewall



- Turn Windows Firewall on or off







- OK

♥ ♥ ♥ Windo	ws Firewall > Customize Settings	- Search Control Panel	9
Custor	nize settings for each type of network		
You can What are	modify the firewall settings for each type of networ e network locations?	k location that you use.	
Home o	r work (private) network location settings		
٢	<ul> <li>Turn on Windows Firewall</li> <li>Block all incoming connections, including t</li> <li>Notify me when Windows Firewall blocks a</li> </ul>	hose in the list of allowed programs new program	E
8	Turn off Windows Firewall (not recommended)	)	2
Public n	etwork location settings	5	5
٢	<ul> <li>Turn on Windows Firewall</li> <li>Block all incoming connections, including t</li> <li>Notify me when Windows Firewall blocks a</li> </ul>	hose in the list of allowed programs new program	
8	Turn off Windows Firewall (not recommended)	)	
		OK Cancel	

#### **B.** Windows Firewall Advanced Security Snap-in

- Start  $\rightarrow$  Control Panel  $\rightarrow$  System and Security  $\rightarrow$  Windows Firewall







#### - Advanced Settings



- Click phải Outbound Rules → New Rule

File Action View I	Help									
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Windows Firewall wit	h Advance Outbo	und Rul	es							
Inbound Rules	Name			Group	Profile	Enabled	Action	Program	Local Address	Remot
Contraction Service	New Rule		Content Retrieval (HTTP-O	BranchCache - Content Retr	All	No	Allow	SYSTEM	Any	Anv
Monitoring			Hosted Cache Client (HTT	BranchCache - Hosted Cach	All	No	Allow	SYSTEM	Any	Any
	Filter by Profile	+	Hosted Cache Server(HTTP	BranchCache - Hosted Cach	All	No	Allow	SYSTEM	Any	Any
	Filter by State	•	Peer Discovery (WSD-Out)	BranchCache - Peer Discove	All	No	Allow	%system	Any	Local
	Filter by Group	•	Network Projector (TCP-Out)	Connect to a Network Proje	Private	No	Allow	%System	Any	Local
	10		Network Projector (TCP-Out)	Connect to a Network Proje	Domain	No	Allow	%System	Any	Any
	View		Network Projector (WSD Ev	Connect to a Network Proje	Domain	No	Allow	System	Any	Any
	Refresh Export List		Network Projector (WSD Ev	Connect to a Network Proje	Private	No	Allow	System	Any	Local s
		Network Projector (WSD Ev	Connect to a Network Proje	Domain	No	Allow	System	Any	Any	
			Network Projector (WSD Ev	Connect to a Network Proje	Private	No	Allow	System	Any	Local s
	Help		Network Projector (WSD-O	Connect to a Network Proje	All	No	Allow	%System	Any	Local s
	Cor	e Netwo	orking - DNS (UDP-Out)	Core Networking	All	Yes	Allow	%System	Any	Any
	Cor	e Netwo	orking - Dynamic Host Config	Core Networking	All	Yes	Allow	%System	Any	Any
	Cor	e Netwo	orking - Dynamic Host Config	Core Networking	All	Yes	Allow	%System	Any	Any
	🕢 Cor	e Netwo	orking - Group Policy (LSASS	Core Networking	Domain	Yes	Allow	%System	Any	Any
	🕖 Cor	e Netwo	orking - Group Policy (NP-Out)	Core Networking	Domain	Yes	Allow	System	Any	Any
	🕑 Cor	e Netwo	orking - Group Policy (TCP-O	Core Networking	Domain	Yes	Allow	%System	Any	Any
	🕢 Cor	e Netwo	orking - Internet Group Mana	Core Networking	All	Yes	Allow	System	Any	Any
	Cor	Core Networking - IPHTTPS (TCP-Out) Core Networking - IPv6 (IPv6-Out) Core Networking - Multicast Listener Do		Core Networking	All	Yes	Allow	%System	Any	Any
	Cor			Core Networking	All	Yes	Allow	System	Any	Any
	🕖 Cor			Core Networking	All	Yes	Allow	Any	Any	Local s
	Cor	e Netwo	orking - Multicast Listener Qu	Core Networking	All	Yes	Allow	Any	Any	Local s
	🕑 Coi	e Netwo	orking - Multicast Listener Rep	Core Networking	All	Yes	Allow	Any	Any	Local s
1	a c		The second second second	C N I	A 11	V				





## - Chọn Custom $\rightarrow$ Next

Rule Type		
Select the type of firewall rule to	create.	
Steps: Rule Type Program Protocol and Ports Scope Action Profile Name	What type of rule would you like to create? <ul> <li>Program</li> <li>Rule that controls connections for a program.</li> </ul> <ul> <li>Predefined:</li> <li>BranchCache - Content Retrieval (Uses HTTP)</li> <li>Rule that controls connections for a Windows experience.</li> </ul> <ul> <li>O totom</li> <li>Custom rule.</li> </ul>	וווש החוזה//fom

- Chọn This program path  $\rightarrow$  Browse  $\rightarrow$  Theo đường dẫn: C:\Program Files\Internet Explorer - chọn tập tin iexplore.exe  $\rightarrow$  OK  $\rightarrow$  Next

Program	
Specify the full program path an	ind executable name of the program that this rule matches.
Steps: Rule Type Program	Does this rule apply to all programs or a specific program?
<ul> <li>Protocol and Ports</li> <li>Scope</li> <li>Action</li> </ul>	<ul> <li>All programs Rule applies to all connections on the computer that match other rule properties.</li> <li>This program path:</li> </ul>
<ul> <li>Profile</li> <li>Name</li> </ul>	%ProgramFiles%\Internet Explorer\iexplore.exe       Browse         Example:       c.\path\program.exe         %ProgramFiles%\Internet Explorer\iexplore.exe       Services         Services       Customize         Specify which services this rule applies to.       Customize
	Learn more about specifying programs           < Back



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- Khai báo các thông số theo hình minh họa  $\rightarrow$  Next

Protocol and Ports			
Specify the protocols and ports t	o which this rule applies.		
Steps:			
Rule Type	To which ports and p	rotocols does this rule apply?	
Program			
Protocol and Ports	Protocol type:	TCP	
Scope	Protocol number:	6	
Action			
Profile	Local port:	All Ports	
Name			
		Example: 80, 443, 5000-5010	
	Remote port:	Specific Ports	
		80	
		Example: 80, 443, 5000-5010	
	Internet Control Mess (ICMP) settings:	sage Protocol Customize	
	Learn more about pro	tocol and ports	

- Phần Which local IP address...  $\rightarrow$  chọn These IP address  $\rightarrow$  Add

Specify the local and remote IP	addresses to which this rule applies.	
Steps:		
Rule Type		
Program	Which local IP addresses does this rule apply to?	
Protocol and Ports	Any IP address	
Scope	These IP addresses:	
Action		Add
Profile		
Name		
		Remove
	Customize the interface types to which this allo profiles:	
	customize the interface types to which this falle applies.	Customize
	Which remote IP addresses does this rule apply to?	
	Any IP address	
	These IP addresses:	
		Add
		Edit
		Remove
	learn more about specifying scope	

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- Nhập IP Address → OK

Spe	ecify the IP addre	esses to match:	
0	This IP address	or subnet:	
	192.168.1.2		
	Examples: 192 192 200 200	: 168.0.12 : 168.1.0/24 2:9d3b:1a31:4:208:74fffe39:6c43 2:9d3b:1a31:4:208:74fffe39:0/112	
0	This IP address	range:	
	From:		
	To:		
Lea	im more about si	pecifying IP addresses	ncel

- Next

🔗 New Outbound Rule Wiza	rd	
Scope		
Specify the local and remote IP	addresses to which this rule applies.	
Steps:		
Rule Type		
Program	Which local IP addresses does this rule apply to?	
Protocol and Ports	Any IP address	CC
Scope	These IP addresses:	
Action	192.168.1.2 Add	
Profile		
Name	E.u.	
	Remove	
	Customine the interface to prove to which this are senting.	
	Customize the interace types to which this full applies.	
	Which remote IP addresses does this rule apply to?	
	Any IP address	
	These IP addresses:	
	Add	
	Edit	$\square$
	Remove	-j
	Learn more about specifying scope	
	< Back Next > Can	cel



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- Chon **Block the connection** → Next

Action	
Specify the action to be taken v	then a connection matches the conditions specified in the rule.
Steps: Program Protocol and Ports Scope Action Profile Name	What action should be taken when a connection matches the specified conditions?   Image: Connection in the connection shat are protected with IPsec as well as those are not.   Image: Connection in the secure in the connection shat have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.   Image: Customize   Image: Block the connection Head the connection
	< Back Next > Cancel

- Next







- Đặt tên: Block Website → Finish

Name		
Specify the name and description	of this rule.	
Steps:		
Rule Type		
Program		
Protocol and Ports		
Scope	Name	C
Action	Block Website	2
Profile	Description (optional):	
Name		5
		S-
		G
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- Kiểm tra: Mở Internet Explorer truy cập trang web bất kỳ

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	Internet Explorer cannot display the webpage
,	What you can try:
	Diagnose Connection Problems
	More information