## How To Use Microsoft 2008 Server With D-Link DFL-Series Firewall User Authentication Groups

- Create a DOMAIN NAME in this 2008 server, or you can use current DOMAIN. How to create a DOMAIN in the 2008 server:
  - A. Go to **Start > Run > "dcpromo" command.**



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installed.



< Back Next Cancel

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me the Forest Root Domain The first domain in the forest is the forest the forest.	root domain. Its name is also the name of
Type the fully qualified domain name (FQ	DN) of the new forest root domain
FQDN of the forest root domain:	
Example: corp.contdS0.000	



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Forest functional level:	
Windows 2000	2
Windows 2000	
Windows Server 2008	<u> </u>
controllers running later versio not be available on those dom 2000 functional level.	ns or Windows Server, some advanced reatures will ain controllers while this forest is at the Windows
More about domain and forest	functional levels

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For better performance volumes.	and recoverability, store the	database and log files on separat
Database folder:		
C:\Windows\NTDS		Browse
Log files folder:		
C:\Windows\NTDS		Browse
SYSVOL folder:		
C:\Windows\SYSVOL		Browse
More about <u>placing Ac</u>	tive Directory Domain Servic	es files

L.

Act	ive Directory Domain Serv	vices Installation Wizard	×
Dir	ectory Services Restore N	Node Administrator Password	
	The Directory Services Restor Administrator account.	re Mode Administrator account is different from the doma	ain
	Assign a password for the Adn controller is started in Directory choose a strong password.	ninistrator account that will be used when this domain y Services Restore Mode. We recommend that you	
	Password:	•••••	
	Confirm password:	••••••	
	More about <u>Directory Services</u>	<u>i Restore Mode password</u>	
		< Back Next	ancel



Ν.

ummary	
Review your selections:	
Configure this server as th	Active Directory Domain Services Installation Wizard
The new domain name is The NetBIOS name of the	The wizard is configuring Active Directory Domain Services. This process can take from a few minutes to several hours, depending on your environment and the options that you selected.
Forest Functional Level: 1	
Domain Functional Level	
Additional Options:	
To change an option, clic	Waiting for DNS installation to finish
These settings can be ex other unattended operation More about <u>using an ansi</u>	Cancel
	Reboot on completion
	< Back Next > Cancel

### Install NPS, please follow below instructions:

- A. Click start > Server Manager
- B. Select roles from the left hand panel
- C. Select Add Roles
- D. Click next on the welcome screen
- E. Tick the box labelled "Network Policy and Acces Services" then click next
- F. Read the summary and click next
- G. Tick the box labelled "Network Policy Server" then click next
- H. Review the installation summary then click install.
- A progress bar will display the progress of the installation; once the progress reaches 100% NPS is installed and running, click close to exit the wizard. NPS can be accessed via Start > Administrative tools > Network Policy Server

#### Configure NPS

- A. Click Start > Administrative tools > Network Policy Server to launch NPS
- B. Right click on NPS (local) and select "Register Server in Active Directory" and acknowledge the messages
- C. Expand RADIUS Clients and Servers



#### D. Right click RADIUS clients and select new RADIUS client.

Enable this RADIUS client	
Name and Address Friendly name:	
DFL-1600	
A <u>d</u> dress (IP or DNS):	
192.168.1.1	Verify
Vendor Specify RADIUS Standard for most RADIUS clients, or select the RA vendor from the list.	DIUS client
RADIUS Standard	
To manually type a shared secret, click Manual. To automatically ger secret, click Generate. You must configure the RADIUS client with the secret entered here. Shared secrets are case-sensitive.	nerate a shared ne same shared
To manually type a shared secret, click Manual. To automatically ger secret, click Generate. You must configure the RADIUS client with th secret entered here. Shared secrets are case-sensitive. Manual <u>G</u> enerate Shared secret:	nerate a shared në samë shared
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E. Go to "Network Policies", Move Up "Connections to other access servers" Policy to top.



# F. Double click "Connections to other access servers" Policy and setup this policy.

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Policy State If enabled, NPS evaluates this policy while performing authorization. If disabled, NPS does not evaluate this policy.  ✓ Policy gnabled  Access Permission If conditions and constraints of the network policy match the connection request, the policy can either grant access or deny access. What is access permission?     © Grant access. Grant access if the connection request matches this policy. Deny agcess. Deny access if the connection request matches this policy. Ignore user account dial-in properties. If the connection request matches the policy and the policy grants access, perform authorization with network policy only; do not evaluate the dial-in properties of user accounts. Network connection method Select the type of network access server that sends the connection request to NPS. You can select either the network access server type or Vendor specific.     • Unspecified    • Yendor specific:	Policy State If enabled, NPS evaluates this policy while performing authorization. If disabled, NPS does not evaluate this policy.  ✓ Policy gnabled  Access Permission If conditions and constraints of the network policy match the connection request, the policy can either grant access or deny access. What is access permission?	licy <u>n</u> ame:	Connections to oth	her access servers		
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		elect the type of	network access server that	t sends the connection requ	iest to NPS. You can select eith	her the network access server type
Unspecified       Vendor specific:       10	Unspecified           Vendor specific:           10	Tune of poting	li			
Vendor specific:	Vendor specific:		K duudss <u>s</u> erver.			
Vendor specific:	© Vendor specific:	Unspecified				
		C <u>V</u> endor specifi	51			
		10				

Constraints	Allow access only to those clients that authenticate with the specified methods.
Authentication Methods  Idle Timeout  Session Timeout  Called Station ID  Decent time entities	EAP types are negotiated between NPS and the client in the order in which they are listed. EAP Types: Move_Up
NAS Port Type	Add       Edit       Eremove         Less secure authentication methods:       □       Microsoft Encrypted Authentication version 2 (MS-CHAP-v2)         □       User can change password after it has expired         □       Microsoft Encrypted Authentication (MS-CHAP)         □       User can change password after it has expired         □       Microsoft Encrypted Authentication (MS-CHAP)         □       User can change password after it has expired         □       User can change password after it has expired         □       Encrypted authentication (CHAP)
	<ul> <li>Unencrypted authentication (PAP, <u>SPAP</u>)</li> <li>Allow clients to connect without negotiating an authentication method</li> </ul>

ttings:			
ADIUS Attributes Standard	To send additional a then click Edit. If yo your RADIUS client	attributes to RADIUS cl u do not configure an a documentation for requ	ients, select a Vendor Specific attribute, and attribute, it is not sent to RADIUS clients. See uired attributes.
Vendor Specific			
NAP Enforcement			
Extended State	Attributes:	Vander	Makes
Routing and Remote Access	Vendor-Specific	RADIUS Standard	authed
Multilink and Bandwidth Allocation Protocol (BAP)	101000000000000000000000000000000000000		
V IP Filters			
Encryption			
A IP Settings			
	A <u>d</u> d	Edit	nove

ndor:		
ibutes:	_	
lame	Vendor	Į.
ISR-Tunnel-Switch-Endpoint	U.S. Robotics, Inc.	
ISR-Unauthenticated-Time	U.S. Robotics, Inc.	
ISR-VPN-Encryptor	U.S. Robotics, Inc.	
ISR-VPN-GW-Location-Id	U.S. Robotics, Inc.	
ISR-VTS-Session-Key	U.S. Robotics, Inc.	
/endor-Specific	RADIUS Standard	
		٠ſ
scription:		

Attribute Informatio	n		×
Attribute name: Vendor-Specific			
Attribute number: 26			
Attribute format: OctetString			
Attribute values:			
Vendor	Value		<u>A</u> dd
Vendor Code: 5089	authed		Edit
			Remove
			Move <u>U</u> p
			Move <u>D</u> own
		ОК	Cancel
Vendor-Specific Attr	ibute Information		X

Attribute name: Vendor Specific		
Specify network access ser	rver vendor.	
C Select from list:	RADIUS Standard	<b>*</b>
• Enter Vendor Code:	5089	÷
Specify whether the attribut vendor specific attributes.	e conforms to the RADIUS RFC s	pecification for
• Yes. It conforms		
<ul> <li>✓ Yes. It conforms</li> <li>○ No. It does not conform</li> </ul>		
Yes. It conforms     No. It does not conform     Configure <u>A</u> ttribute	]	

•

ADIUS Attributes	To send additional a then click Edit, If you	ttributes to RADIUS cl u do not configure an a	ients, select a Vendor Specific attribute, and attribute, it is not sent to RADIUS clients. See
🖉 Vendor Specific	your RADIUS client	documentation for requ	uired attributes.
Network Access Protection			
NAP Enforcement	Attributes:		
Extended State	Name	Vendor	Value
Routing and Remote Access	Vendor-Specific	RADIUS Standard	authed
Multilink and Bandwidth Allocation Protocol (BAP)			
TP Filters			
Encryption			
A IP Settings			
	Add	Edit <u>R</u> en	nove



**G.** Go to **Active Directory Domain Services > Active Directory Users and Computers > Users**, right click **"Users" and select New > User** 

H.	Setup	this	User:
	100		

Remote control	Terminal Service	ces Profile	COM+
Member Of	Dial-in Env	vironment	Sessions
General Address	Account Profile	Telephones	Organizatio
benson			
Eirst name:	benson	Initials:	
Last name:			
Digplay name:	benson		
Description:			
Offi <u>c</u> e:			
Telephone number:			Other
E- <u>m</u> ail:			
<u>W</u> eb page:			Othe <u>r</u>

Remote control	Terminal Services Profile	COM+	
Member Of	Dial-in Environment	Sessions	
eneral Address	Account Profile Telephone	s Organization	
lser logon name:			
enson	@dlink.com	•	
ser logon name (pre-V	/indows 2000);		
DLINK\	benson		
		20	
Logon Hours	Log On To		
Unlock account			
Unlock account			
Unjock account			
Uglock account ccount options:	e password at next logon	-	
Uglock account ccount gptions:	e password at next logon	<u> </u>	
Unlock account ccount gotions: User must change User cannot char Password never e	e password at next logon ige password xpires	<u> </u>	
Uglock account ccount gptions: User must change User cannot char Password never e Store password u	e password at next logon ige password xpires sing reversible encryption		
Unlock account ccount options: User must change User cannot char Password never e Store password u	e password at next logon ige password xpires sing reversible encryption	4	
Unlock account ccount options: User must change User cannot char Password never e Store password u Account expires	e password at next logon ige password xpires sing reversible encryption	1 	
Unlock account ccount options: User must change User cannot char Password never e Store password u Account expires	e password at next logon ige password xpires sing reversible encryption	- -	
Unjlock account ccount options: User must change User cannot char Password never e Store password u Account expires Never C End of:	e password at next logon ige password xpires sing reversible encryption Gaturday , June 20, 2009	* • •	
Unjlock account ccount options: User must change User cannot char Password never e Store password u Account expires Never C End of:	e password at next logon ige password xpires sing reversible encryption Gaturday , June 20, 2009	* • •	
Unlock account ccount options: User must change User cannot char Password never e Store password u Account expires Never C End of:	e password at next logon ige password xpires sing reversible encryption Gaturday , June 20, 2009	* • •	

nson Properties	?
Remote control General Address Member Of Member of	Terminal Services Profile         COM+           Account         Profile         Telephones         Organization           Dial-in         Environment         Sessions
Name	Active Directory Domain Services Folder
Domain Users RAS and IAS Servers	dlink.com/Users s dlink.com/Users
	R
Primary group: Do	main Users
Set Primary Group	There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

Thomas of the	Terminal Services Profile COM+
General Address	Account   Profile   Telephones   Organizatio
Member Of	Dial-in Environment Sessions
Network Access Perm	nission
Allow access	
C Deny access	
C Control access thro	ough NPS Network <u>P</u> olicy
I <u>V</u> enty Caller-ID:	
Callback Options	1
No <u>C</u> allback	
C Set by Caller (Rout	ting and Remote Access Service only)
C Always Callback to	
	J
	I
Assign Static IP Ac	ddresses
Assign Static IP Ac Define IP addresses t Dial-in connection.	ddresses
- ⊂ - Assign Static IP Ac Define IP addresses t Dial-in connection.	ddresses
Assign Static <u>I</u> P Ac Define IP addresses t Dial-In connection.	ddresses
Assign Static IP Ac Define IP addresses t Dial-in connection.	ddresses
Assign Static IP Ac Define IP addresses t Dial-in connection.     Apply Static <u>R</u> oute Define routes to enab connection.	ddresses

# Setup DFL-Firewall RADIUS Server.

😨 DFL-1600	External RADIUS server used to verify user names an	id par
E Government E	General	
Routing     JDP / IPS     Government User Authentication	Name: radius_srv IP Address: 192.168.1.100	
External User Databases	Port: 1812 Retry Timeout: 2 seconds	
Accounting Servers      Servers      Guser Authentication Rules      Authentication Settings	Shared Secret:	
<ul> <li>         Traffic Management</li></ul>	Confirm Secret:	

# Setup DFL Firewall User Authentication Rule.

	http_auth	ed ication Ruleset :	specifies from v	vhere users are alk	owed to authent	icate to the system, an	id how,
System     System     Objects     Rules     Minimum Interfaces	General Log	Settings	Authenticatio	n Options	Accounting	Agent Options	Restrictions
E Routing	Name:	http_authed					
User Authentication	Authentication agent:	нттр	*				
🗄 🗟 Local User Databases	Authentication Source:	RADIUS	~				
	Interface:	lan 1	~				
Accounting Servers     Servers     Servers	Originator IP:	all-n <mark>ets</mark>	~	For XAuth	and PPP, this is	s the tunnel originator I	Р.
Authentication Settings	Terminator IP:	(None)	~				
E - C Traffic Management E - C ZoneDefense	Omments						

General	Log Settings	Authenticat	tion Options	Accounting	7	Agent Options	Restriction
General							
Select one or more	authentication se	vers. Also sele	ct the authenti	cation method, whic	ch is u	used for encrypting	g the user passwo
Available		Select	ed				
		radio	us_srv				
		5-14					
		>>					
1		Mo	ve up M	ove down			
		Mo	ve up M	ove down			
LDAP servers		Mo	ve up M	ove down			
LDAP servers Available		Man	ve up Mi	ove down			
LDAP servers Available			ve up Mi	ove down			
LDAP servers Available		Select	ve up M	ove down			
LDAP servers Available		Select	ve up M	ove down			
LDAP servers Available		Select	ed	ove down			
LDAP servers Available		Select	ed Mi	ove down			
LDAP servers Available		Select	ed	ove down			
LDAP servers Available		Select	ed M	ove down			
LDAP servers Available		Select	ed	ove down			
LDAP servers Available	Unencrypted p	Select Select	ed       ve up     Mi       ve up     Mi       ve up     Mi	ove down			

General Log Settings	Authentication Options Accounting Agent Options Restrictions
General	
Select one or more accounting si	ervers. Also select the statistics for the authenticated user that should be sent to the accounting
Accounting servers	
Available	Selected
	radius_acc_srv
	- Income
	>>
	221
	Move up Move down
	Move up Move down
<u> </u>	Move up Move down
User Statistics	Move up Move down
User Statistics	Move up Move down
User Statistics	Move up Move down
User Statistics Bytes Sent Packets Sent Enable reporting of the numb	Move up Move down Move up Move down Bytes Received Packets Received ber of seconds the session lasted.
User Statistics Bytes Sent Packets Sent Enable reporting of the numb	Move up Move down Move up Move down Bytes Received Packets Received ber of seconds the session lasted.
User Statistics User Statistics User Statistics Packets Sent Enable reporting of the numb	Move up Move down Move up Move down Bytes Received Packets Received ber of seconds the session lasted.
User Statistics User Statistics Packets Sent Enable reporting of the numb Support Interim Accounting Server controlled value	Move up Move down Move up Move down Bytes Received Packets Received ber of seconds the session lasted.

# Setup D-Link Firewall IP Rules authed\_rule An IP Rule Folder can be used to group IP Rules into logical groups for better overview and simplified management

D

Add - 🛃 Edit this object									
#	Name	Action	Source interface	Source network	Destination interface	Destination network	Service		
1	\$ dns_allow	T NAT	[ lan1	🗟 lan1net	😭 pppoe	all-nets	🗑 dns-all		
2	8 authed_allow	TR NAT	an1	lan_authed	pppoe	🖁 all-nets	all_services		
3	8 NO_authed_sat	SAT	Ian1	🗟 lan1net	pppoe	all-nets	all_services		
4	8 NO_authed_sat-allow	Allow	🔝 lan1	💡 lan1net	pppoe	all-nets	all_services		