Installing and configuring DHCP on DC01



In this guide we will install and configure the DHCP service on DC01 in site 1. The server will only offer DHCP services in site 1 as the gateway RRAS01 will block the DHCP broadcast packets.

We will configure that the DHCP clients in site 1 automatically get an IP address in the site subnet. We will also configure DHCP scope options, giving the DHCP clients a DNS server and a gateway so they can access and browse the internet.

As DC01 is also the local DNS server in site 1, we will use it as the primary DNS server and we will use DC02 as the secondary DNS server. A connection to the secondary DNS server will not be available before a site-to-site VPN connection has been established between RRAS01 and RRAS02.

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Al Before You Begin Al Installation Type	This wizard helps you install roles, role services, or features. You determine v features to install based on the computing needs of your organization, such hosting a website.	which roles, role services, or as sharing documents, or	
DI Server Selection Fil Server Roles Features	To remove roles, role services, or features: Start the Remove Roles and Features Wizard		=
Confirmation	Before you continue, verify that the following tasks have been completed:		
Results	 The Administrator account has a strong password Network settings, such as static IP addresses, are configured The most current security updates from Windows Update are installed 		
	If you must verify that any of the preceding prerequisites have been comple complete the steps, and then run the wizard again.	ted, close the wizard,	Hide
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Al Before You Begin	The Dynamic Host Configuration Protocol allows servers to assign, or lease, IP addresses to computers and other devices that are enabled as DHCP clients. Deploying a DHCP server on the network provides	
AI Installation Type	computers and other TCP/IP-based network devices with valid IP addresses and the additional	
🔒 DI Server Selection	configuration parameters these devices need, called DHCP options. This allows computers and devices to connect to other network resources, such as DNS servers, WINS servers, and routers.	
Fil Server Roles		=
Features	Things to note:	
DHCP Server	You should configure at least one static IP address on this computer.	
Confirmation	 Before you install DHCP server, you should plan your subnets, scopes and exclusions. Store the plan in a safe place for later reference. 	
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DI Server Rol Fil Features DHCP Ser Confirmat Results Description Summary	Specify the credentials to be used to authorize this DHCP set Use the following user's credentials User Name: DOMAIN\Administrator Use alternate credentials UserName: Skip AD authorization	rver in AD DS. Specify	Hide
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	Display Statistics	A scope is a range of IP addresses assigned to computers requesting a dynamic IP address. You	More Actions	
t	New Scope	reate and configure a scope before dynamic IP addresses can be assigned.		
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		Define User Classes		
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Right click on IPv4 and choose "New Scope"

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⊳ 👼 IP∨6	Scope Name You have to provide an identifying scope name. You also have the option of providing a description.	
	Type a name and description for this scope. This information helps you quickly identify how the scope is to be used on your network.	
	Name: Site 1	
	Description:	
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⊳ 🛃 IPv6	IP Address Range You define the scope address range by identifying a set of consecutive IP addresses.	
	Configuration settings for DHCP Server	
	Enter the range of addresses that the scope distributes.	
	Start IP address: 192.168.58.1	
	5-10-11	
	End IP address: 132 . 100 . 30 . 234	
	Configuration settings that propagate to DHCP Client	
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⊳ 👼 IPv6	Add Exclusions and Delay Exclusions are addresses or a range of addresses that are not distributed by the server. A delay is the time duration by which the server will delay the transmission of a DHCPOFFER message.				
	Type the IP address range that you want to exclude. If you want to exclude a single				
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⊳ ᡖ IP∨6	Lease Duration The lease duration specifies how long a client can use an IP address from this scope.	
	Lease durations should typically be equal to the average time the computer is connected to the same physical network. For mobile networks that consist mainly of portable computers or dal-up clients, shorter lease durations can be useful. Likewise, for a stable network that consists mainly of desktop computers at fixed locations, longer lease durations are more appropriate.	
	Set the duration for scope leases when distributed by this server.	
	Limited to:	
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⊳ 🛃 IPv6	Configure DHCP Options You have to configure the most common DHCP options before clients can use the scope.	
	When clients obtain an address, they are given DHCP options such as the IP addresses of routers (default gateways), DNS servers, and WINS settings for that scope. The settings you select here are for this scope and override settings configured in the Server Options folder for this server. Do you want to configure the DHCP options for this scope now?	
	Next > Cancel	
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þ 🝺 IPv6	Router (Default Gateway) You can specify the routers, or default gateways, to be distributed by this scope.	
	To add an IP address for a router used by clients, enter the address below. IP address: Add I92.168.58.1 Remove Down Next > Cancel	
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⊳ 🛃 IPv6	Domain Name and DNS Servers The Domain Name System (DNS) maps and translates domain names used by clients on your network.		
	You can specify the parent domain you want the client computers on your network to use for DNS name resolution.		
	Parent domain.local		
	To configure scope clients to use DNS servers on your network, enter the IP addresses for those		
	servers.		
	Server name: IP address:		
	Add		
	Resolve 192.168.58.10 Remove		
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Complete as shown. Press "OK" at error message about the secondary DNS.

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⊳ 🚡 IPv6	WINS Servers Computers running Windows can use WINS servers to convert NetBIOS computer names to IP addresses.	
	Entering server IP addresses here enables Windows clients to query WINS before they use broadcasts to register and resolve NetBIOS names.	
	Server name: IP address:	
	· · · Add	
	Resolve	
	Down	
	To change this behavior for Windows DHCP clients modify option 046, WINS/NBT Node	
	Type, in Scope Options.	
	Next > Cancel	
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⊳ 🛃 IPv6	Activate Scope Clients can obtain address leases only if a scope is activated.	
	Do you want to activate this scope now?	
	Yes, I want to activate this scope now	
	C No, I will activate this scope later	
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⊳ 🚡 IPv6	Completing the New Scope Wizard You have successfully completed the New Scope wizard.	
	To provide high availability for this scope, configure failover for the newly added scope by right clicking on the scope and clicking on configure failover. To close this wizard, click Finish.	
	Finish Cancel	
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🕎 DHCP	Start IP Address	End IP Address	Description	Actions
⊿ 📋 dc01.domain.local	\$192.168.58.1	192.168.58.254	Address range for distribution	Address Pool
⊿ 🛃 IPv4	192.168.58.1	192.168.58.19	IP Addresses excluded from distribution	More Actions
Scope [192.168.58.0] Site 1				
Address Pool				
Address Leases				
▷ B Reservations				
Policies				
2 Policies				
Filters				
▷ 10/10				
			1]
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				18-04-2013
Status: Running				🔤 😃 🛗 .::

Verify the server configuration.

0 <u>9</u>	DC01 on JOHNH - Virtual Machine Connection -					. 🗆 🗙
File Action Media Clipboard View Help						
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9		DHCP			-	D X
File Action View Help						
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🕎 DHCP	Option Name	Vendor	Value	Policy Name	Actions	
dc01.domain.local	🗈 003 Router	Standard	192.168.58.1	None	Scope Options	
⊿ 🛃 IPv4	006 DNS Servers	Standard	192.168.58.10, 192.168.59.10	None	Mare Actions	, ,
 ▶ IPv4 ▶ Server Options ▶ Scope [192.168.58.0] Site 1 ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	 iii 006 DNS Servers iii 015 DNS Domain Name 	Standard Standard	192.168.59.10 domain.local	None None	More Actions	,
	<			>		
				,		
				R	3 🖫 🕼 DAN	12:40 18-04-2013
Status: Running						<u> 8 8 </u>

Verify the server configuration.