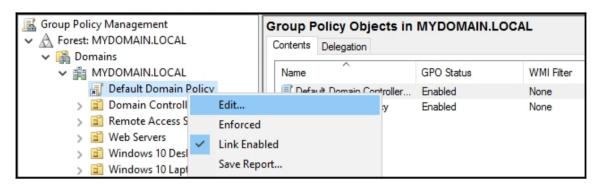
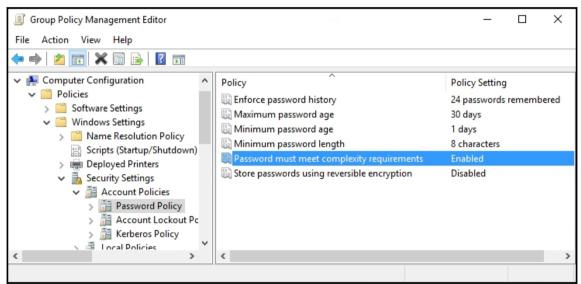
Chapter 1: Security and Networking





Your password has expired. To change the password, click OK, return to the lock screen, click Switch user, and then sign in.

OK

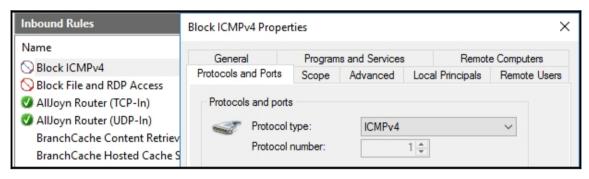
Does this rule apply to all local ports or specific local ports?

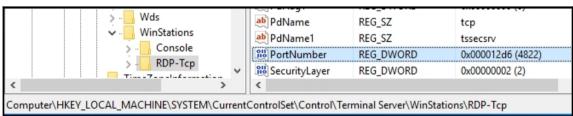
All local ports

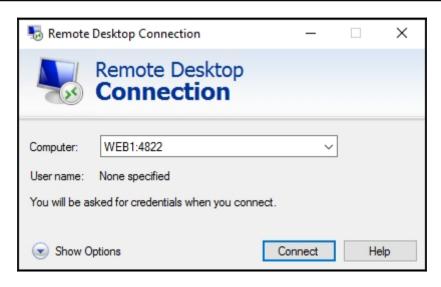
Specific local ports:

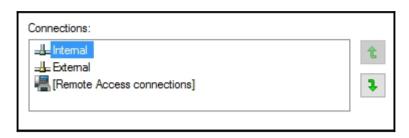
445, 3389

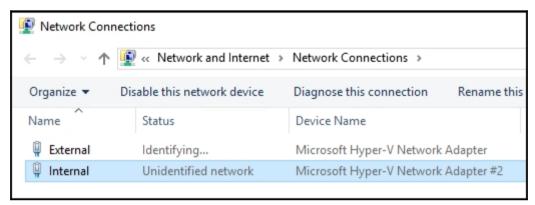
Example: 80, 443, 5000-5010

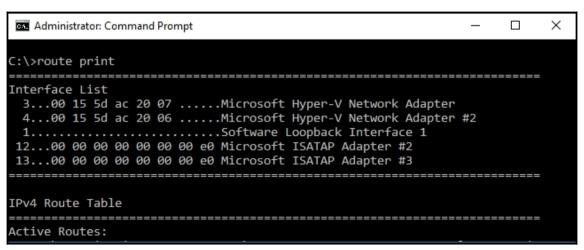












```
Administrator: Command Prompt

C:\>route add -p 10.0.1.0 mask 255.255.255.0 10.0.0.254 if 4

OK!

C:\>______
```

```
Pinging web1.MYDOMAIN.LOCAL [10.0.0.85] with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 10.0.0.85:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
Administrator: Command Prompt — X

C:\>telnet web1 80
```



```
Administrator: Command Prompt
C:\>pathping dc1
Tracing route to DC1.MYDOMAIN.LOCAL [10.0.0.1]
over a maximum of 30 hops:
 0 WEB1.MYDOMAIN.LOCAL [10.0.0.85]
 1 DC1 [10.0.0.1]
Computing statistics for 25 seconds...
            Source to Here This Node/Link
Hop RTT
           Lost/Sent = Pct Lost/Sent = Pct
                                             Address
 0
                                             WEB1.MYDOMAIN.LOCAL [10.0.0.85]
                               0/ 100 = 0%
      0ms
              0/ 100 = 0%
                               0/ 100 = 0% DC1 [10.0.0.1]
Trace complete.
C:\>
```

Windows Firewall

Remote management

Remote Desktop

Disabled

NIC Teaming

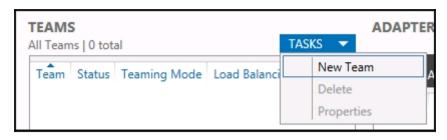
Disabled

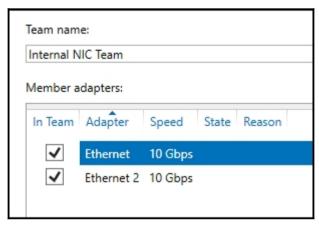
NIC1

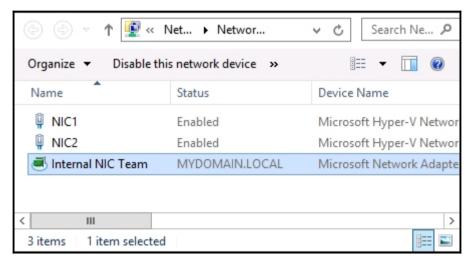
IPv4 address assigned by DHCP, IPv6 enabled

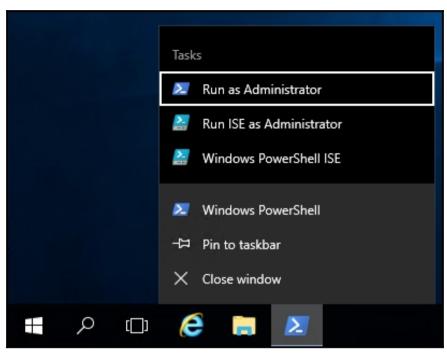
NIC2

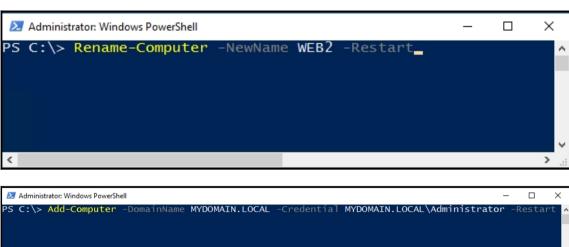
IPv4 address assigned by DHCP, IPv6 enabled













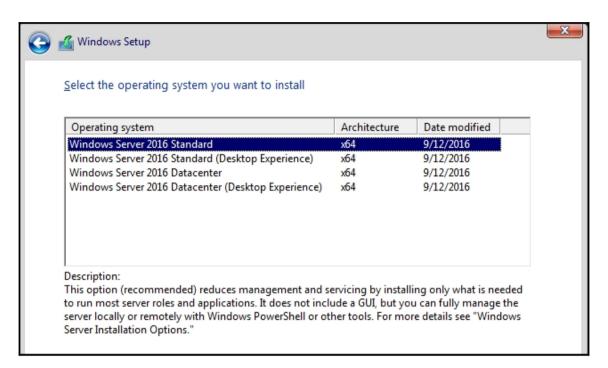
Computer name, domain, and workgroup settings-

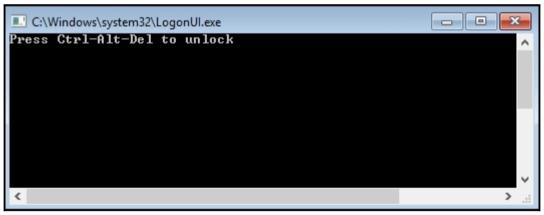
Computer name: WEB2

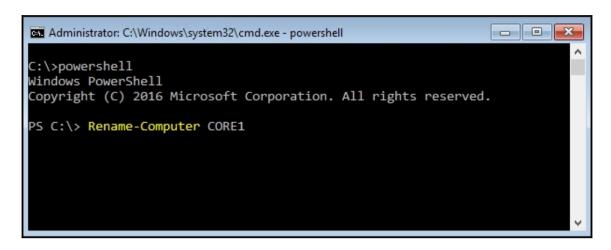
Full computer name: WEB2.MYDOMAIN.LOCAL

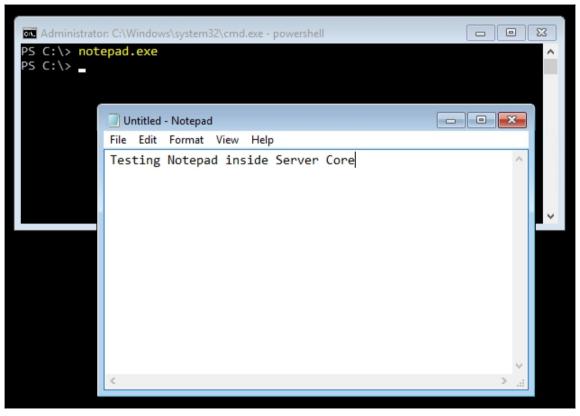
Computer description:

Domain: MYDOMAIN.LOCAL

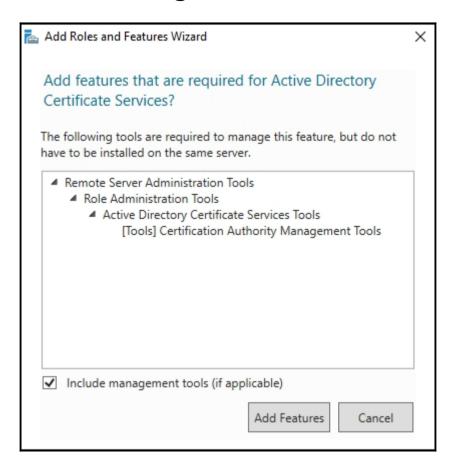






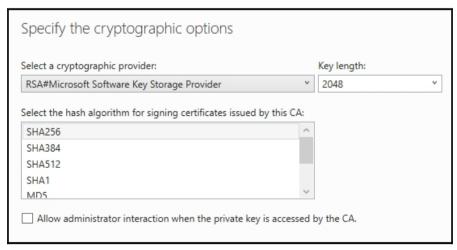


Chapter 2: Working with Certificates



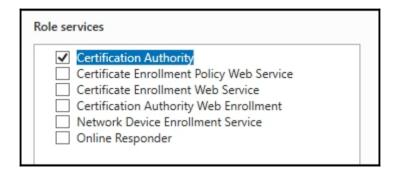






Common name for this CA:	
MyDomain-CertServer	
Distinguished name suffix:	
DC=MYDOMAIN,DC=LOCAL	
Preview of distinguished name:	
CN=MyDomain-CertServer,DC=MYDOMAIN,DC=LOCAL	

The following roles, role services, or features we	ere configured:		
Active Directory Certificate Services			
Certification Authority More about CA Configuration	Configuration succeeded		
Certification Authority Web Enrollment More about Web Enrollment Configuration	Configuration succeeded		



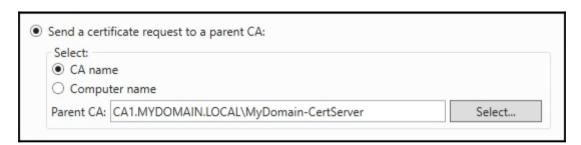
Enterprise CA
 Enterprise CAs must be domain members and are typically online to issue certificates or certificate policies.

 Standalone CA
 Standalone CAs can be members or a workgroup or domain. Standalone CAs do not require AD DS and can be used without a network connection (offline).

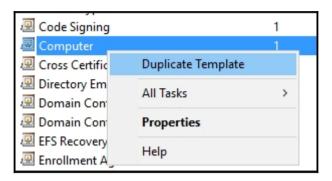
Root CA
 Root CAs are the first and may be the only CAs configured in a PKI hierarchy.
 Subordinate CA
 Subordinate CAs require an established PKI hierarchy and are authorized to issue certificates by the CA above them in the hierarchy.

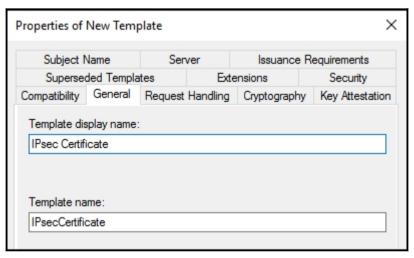
Common name for this CA:

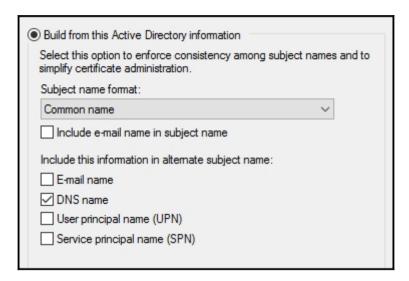
MyDomain-SSLCertServer

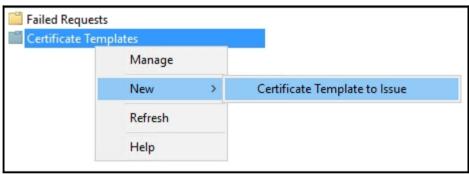






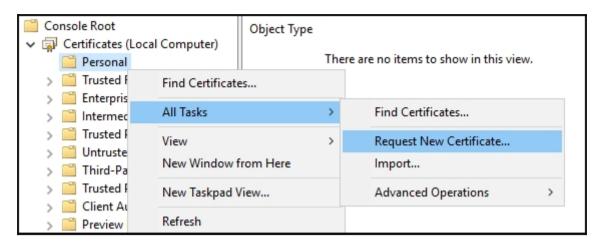




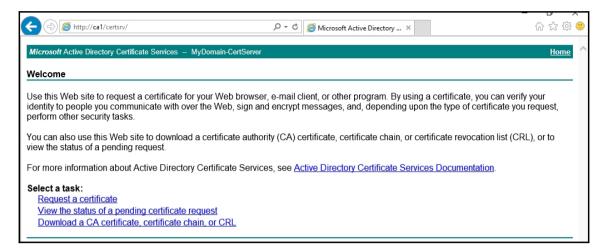


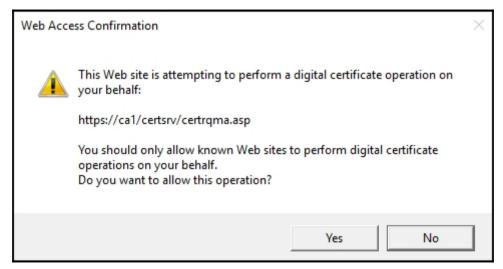
IPsec Certificate Properties				?	×
Subject Name	Iss	uance Requir	eme	ents	
General Compatibility Request Handlin	g C	ryptography	Ke	y Atte	estation
Superseded Templates Extension	าร	Security		Se	erver
Group or user names:					
Authenticated Users					
Administrator					
Domain Admins (MYDOMAIN\Domai					
Bomain Computers (MYDOMAIN\Domain Computers)					
Enterprise Admins (MYDOMAIN\Enterprise)	erpris				
Enterprise Admins (MYDOMAIN\Enterprise	erpris				
Enterprise Admins (MYDOMAIN\Enterprise	erpris		F	Remov	/e
Enterprise Admins (MYDOMAIN\Enterprise Admins (MYDOMAIN\Enterprise)	erprise	e Admins)	F	Remov Deny	
	erprise	e Admins)	F		
Permissions for Domain Computers	erprise	e Admins)	F		
Permissions for Domain Computers Full Control	erprise	e Admins)	F		
Permissions for Domain Computers Full Control Read	erpris	e Admins)	F		
Permissions for Domain Computers Full Control Read Write	erpris	e Admins)	F		

This snap-in will always manage certificates for:
O My user account
Service account
Computer account



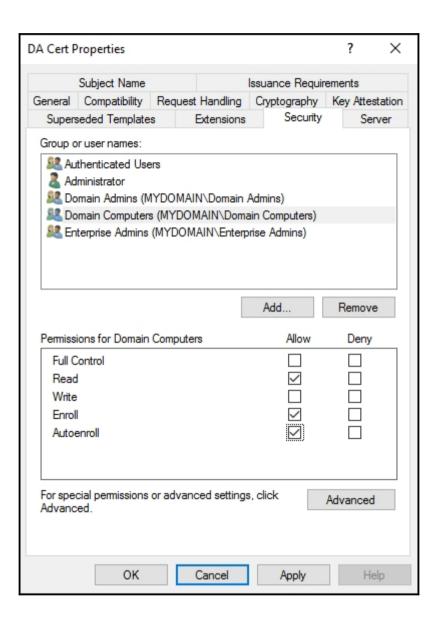
Active Directory Enrollment Policy		
☐ Computer	STATUS: Available	Details 🗸
☑ IPsec Certificate	STATUS: Available	Details 🕶
Show all templates		

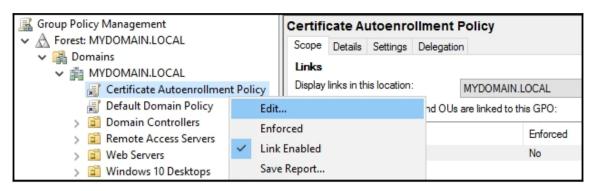


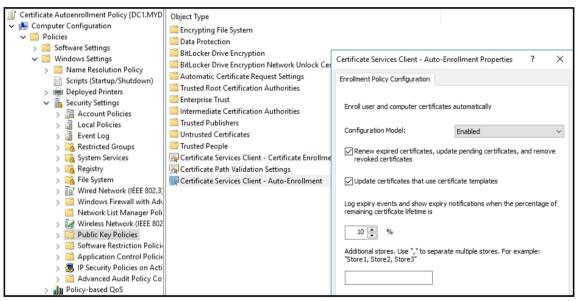


Advanced Ce	rtificate Request
Certificate Temp	late:
	Custom Web Server
Identifying Inforr	nation For Offline Template:
Name:	sharepoint.mydomain.local
E-Mail:	
Company:	Your Company name
Department:	Web
City:	YourCity
State:	YourState
Country/Region:	US
Key Options:	
	Create new key set Use existing key set
CSP:	Microsoft RSA SChannel Cryptographic Provider ✓
Key Usage:	Exchange
Key Size:	2048 Min: 2048 (common key sizes: <u>2048 4096 8192 16384</u>)
	Automatic key container name Ouser specified key container name
	☑ Mark keys as exportable
	☐ Enable strong private key protection

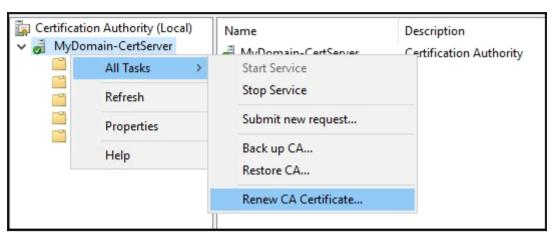
	Microsoft Active Directory Certificate Services - MyDomain-CertServer	
Your new certificate has been successfully installed.	Certificate Installed	
	Your new certificate has been successfully installed.	

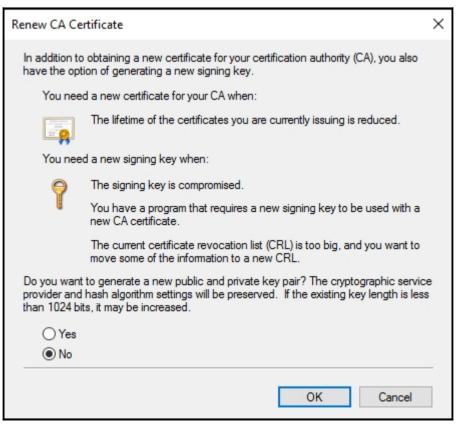




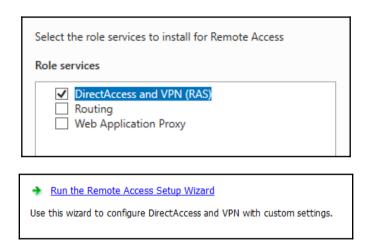


3 7	MYDOMAIN\DC1\$	BEGIN C	Directory Email Repli
<u></u> 8	MYDOMAIN\WEB1\$	BEGIN C	DA Cert (1.3.6.1.4.1.3
₹9	MYDOMAIN\CA2\$	BEGIN C	DA Cert (1.3.6.1.4.1.3

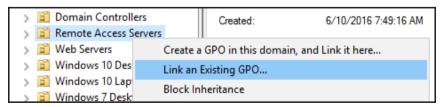


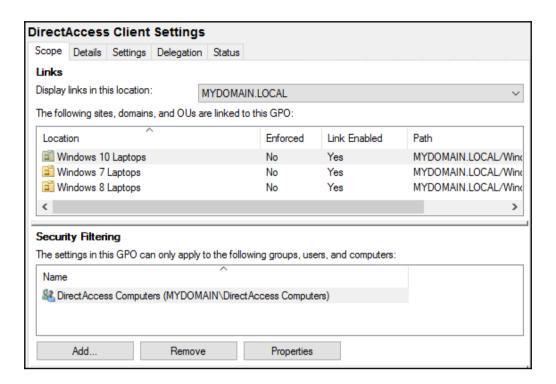


Chapter 3: Remote Access









Remote Access Setup

Select a certificate.



Microsoft Flighting Root 2014

Issuer: Microsoft Development Root

Certificate Authority 2014

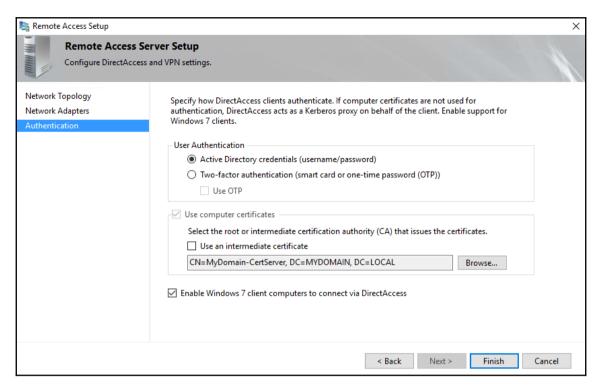
Valid From: 5/28/2014 to 5/28/2039

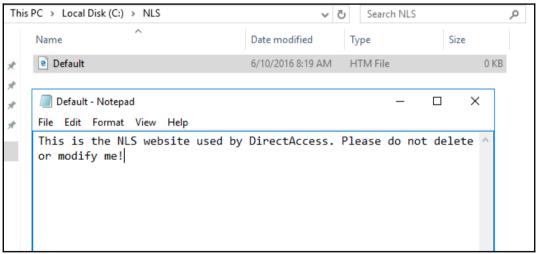


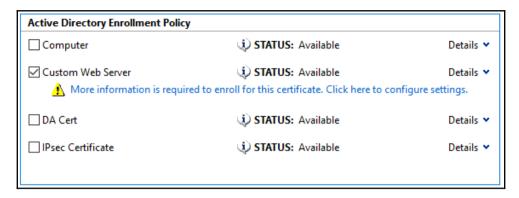
MyDomain-CertServer

Issuer: MyDomain-CertServer Valid From: 6/2/2016 to 6/2/2021

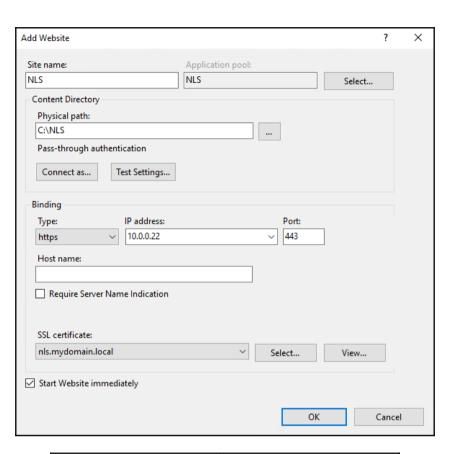
<u>Click here to view certificate</u> <u>properties</u>

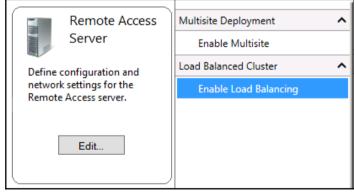












External Dedicated IP Addresses

Before You Begin Load Balancing Method

External DIPs

Internal DIPs

Summary

Completion

Configure dedicated IP addresses (DIPs) for the server external adapter. With load balancing enabled, the current primary DIPs of the network adapters will be used as the virtual IP addresses (VIPs) for the load balanced cluster.

IPv4 address: 1.1.1.12

Example: 203.0.113.18

Subnet mask: 255,255,255.0

Example: 255.255.0.0

Internal Dedicated IP Addresses

Before You Begin

Load Balancing Method

External DIPs

Internal DIPs

Summary

Completion

Configure dedicated IP addresses (DIPs) for the server internal adapter. With load balancing enabled, the current primary DIPs of the network adapters will be used as the virtual IP addresses (VIPs) for the load balanced cluster.

IPv4 address: 1

10.0.0.8

Example: 10.0.0.18

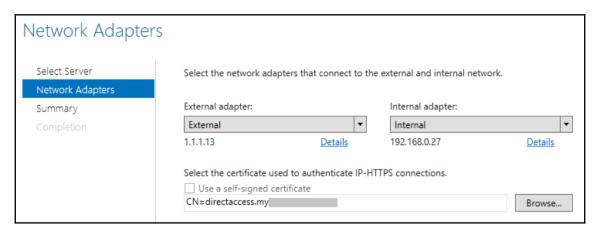
Subnet mask: 255,255,255.0

Example: 255.255.0.0

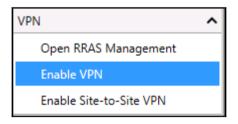
Configure Load Balancing S...

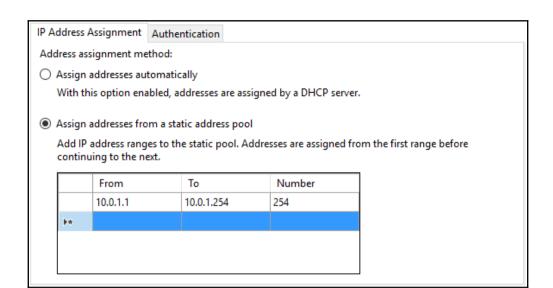
Add or Remove Servers

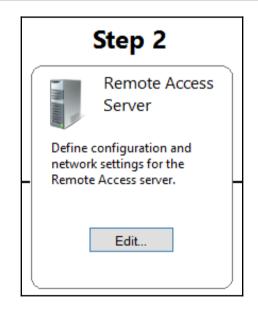
Disable Load Balancing











Select the certificate used to authenticate IP-HTTPS connections: Use a self-signed certificate created automatically by DirectAccess	
CN=directaccess.	Browse



Some configuration changes have not been applied. Click Finish to apply the changes.

Finish...

