ISA Server 2006 EE Workgroup Szenario

CSS installieren

DNS Dienst

Networking Services	x				
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.					
Sub <u>c</u> omponents of Networking Services:					
🗹 💂 Domain Name System (DNS)	1,7 MB 🔼				
🗆 📃 🚚 Dynamic Host Configuration Protocol (DHCP)	0,0 MB				
🗆 🗔 🚐 Internet Authentication Service	0,0 MB				
🗆 🔲 📮 Remote Access Quarantine Service	0,1 MB				
RPC over HTTP Proxy	0,0 MB				
Element Simple TCP/IP Services	0,0 MB 🚽				
🔲 🔲 🚚 Windows Internet Name Service (WINS)	0,9 MB 🔳				
Description: Sets up a DNS server that answers query and update re names.	quests for DNS				
Total disk space required: 6,0 MB	Details				
Space available on disk: 125804,9 MB	2				
OK	Cancel				

Neue FLZ anlegen



CA Dienste installieren

Windows Components Wizard	×
CA Type Select the type of CA you want to set up.	E
 Enterprise root CA. Enterprise subordinate CA. Stand-alone root CA. Stand-alone subordinate CA. Description of CA type The most trusted CA in a CA hierarchy. 	
To install an enterprise CA, Active Directory is required; you m the Enterprise Admins group.	nust also be a member of ificate
< <u>B</u> ack <u>N</u> ext >	Cancel Help

Mist Webenrollment vergessen

Microsoft	: Certificate Services
⚠	Internet Information Services (IIS) is not installed on this computer. Certificate Services Web Enrollment Support will be unavailable until IIS is installed.

IIS nachinstallieren

Windows Comp	onents Wizard
Configuring Setup is r	Components making the configuration changes you requested.
õ	Please wait while Setup configures the components. This may take several minutes, depending on the components selected.
Insert Di	isk 🔀
<u></u>	Please insert the Compact Disc labeled 'Service Pack 2 CD-ROM' into your CD-ROM drive (D:) and then click OK. You can also click OK if you want files to be copied from an alternate location, such as a floppy disk or a network server.
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Webkomponenten nachinstallieren



DNS Suffix auf CSS und ISA Array Knoten konfigurieren

Advanced TCP/IP :	Settings			? ×
IP Settings DNS WINS Options				
D <u>N</u> S server addre	sses, in order of	use:		
192.9.200.23				t t
,	<u>A</u> dd	<u>E</u> dit	Remo	ve
The following thre enabled. For reso	e settings are a lution of unquali	pplied to all conn fied names:	ections wit	h TCP/IP
 Append prima Append p 	ry and connectio arent suffi <u>x</u> es of	n specific DNS su the primary DNS	uffixes i suffix	
C Append these	DNS suffixes (in	order):		
				t t
	A <u>d</u> d	Edi <u>t</u> ,,,	Remo	ve
DNS suffix for this connection: DMZ.local				
✓ <u>Register this connection's addresses in DNS</u> ✓ <u>U</u> se this connection's DNS suffix in DNS registration				
			ок	Cancel

DNS Eintraege fuer CSS und ISA erstellen



CA Request Handling auf Automatisches Ausstellen aendern

Pr	roperties ? ×				
	Request Handling				
	The Windows default policy module controls how this CA should handle certificate requests by default.				
	Do the following when a certificate request is received:				
	 Set the certificate request status to pending. The administrator must explicitly issue the certificate. 				
	 Follow the settings in the certificate template, if applicable. Otherwise, automatically issue the certificate. 				
	OK Cancel Apply				

Zertifikat auf den FQDN des CSS ausstellen

Export Moeglichkeit geben, Schluessel als exportiebra markieren

Alicrosoft Certificate Services - Windows Internet Explorer	
Set	🐓 🗙 🔁 Bing
<u>File Edit View Favorites Iools H</u> elp	
🚖 Favorites 🛛 🚖 🏈 Suggested Sites 👻 🔊 Free Hotmail 🙋 Web Slice Gallery 👻	
Microsoft Certificate Services	🟠 🕶 🗟 👻 🖃 🆶 👻 Page
Stores the certificate in the local computer store instead of in the user's certificate store. Does not install the root CA's certificate. You must be an administrator to generate or use a key in the local machine store.	
Additional Options:	
Request Format: CMC CPKCS10	
Hash Algorithm: SHA-1 Only used to sign request.	
☐ Save request to a file	
Attributes:	
Friendly Name: ISA-CSS.DMZ.LOCAL	
	Submit >

Da isses

Certificate	×
General Details Certification Path	. 1
Certificate Information	
This certificate is intended for the following purpose(s): •Ensures the identity of a remote computer	
Issued to: ISA-CSS.DMZ.LOCAL	
Issued by: DMZCA	
Valid from 04.06.2010 to 04.06.2011	
\mathscr{P} You have a private key that corresponds to this certificate.	
Issuer <u>S</u> tatement	
ОК	

Zertifikat als .PFX exportieren, wird spaeter am CSS gebraucht

DMZCA Zertiifkat exportieren und auf den ISA Notes importieren

Certificate Export Wizard		x
	Completing the Certificate E Wizard You have successfully completed the Certificate	xport Export
	Wizard. You have specified the following settings: File Name Export Keys Include all certificates in the certification path File Format	C:\tem Yes No Person
	Certificate Export Wizard X The export was successful.	Þ
	< <u>B</u> ack Finish	Cancel

Auf dem CSS und allen ISA Knoten einen IDENTISCHEN lokalen User mit Admin Rechten anlegen, der von ISA als Service Account verwendet wird. Kennwort nicht ablaufen lassen

New User		? ×
<u>U</u> ser name:	ISAChef	
<u>F</u> ull name:		
<u>D</u> escription:		
Password:	•••••	
<u>C</u> onfirm password	t: ••••••	
User <u>m</u> ust ch	ange password at next logon	
✓ User cannot	change password	
Password ne	ver expires	
🔲 Account is di	sa <u>b</u> led	
	Create Clos	se 🗌

ISA CSS installieren

🚏 Microsoft ISA Server 2006 - Installation Wizard 🔀 🔀					
Setup Scenarios					
Select the scenario that best describes this installation.					
O Install ISA Server <u>s</u> ervices					
The computer will be an ISA Server array member running ISA Server services.					
Install Configuration Storage server					
The computer will store the configuration used by ISA Server arrays. ISA Server array computers will connect to this server to retrieve the configuration.					
O Install both ISA Server services and Configuration Storage server					
The computer will be an ISA Server array member and used to store the enterprise configuration.					
🔿 Install ISA Server <u>M</u> anagement					
The computer will be used to remotely manage the ISA Server enterprise.					
< <u>B</u> ack <u>N</u> ext > Cancel					

Neues ISA Enterprise erstellen

Enterprise Namen vergeben

Workgroup Deployment – Cert angeben

🔂 Microsoft ISA Server 2006 - Installation Wizard					
Enterprise Deployment Environment					
Are your ISA Server enterprise computers deployed in a single domain or across trusted domains?					
O I am deploying in a <u>s</u> ingle domain or in d	lomains with tru:	st relationships			
Select this option if all your ISA Server computers and Configuration Storage servers are in the same domain or in domains with trust relationships.					
• I am deploying in a <u>w</u> orkgroup or in dom	ains without tru	st relationships			
Select this option if your ISA Server computers and Configuration Storage servers reside in a workgroup or across domains that do not have trust relationships. If you select this option, a server certificate must be installed on this computer.					
Server certificate: C:\temp\ISA-CSS.pfx Browse					
Certificate password: *******					
This setting may be modified after Se	tup. For details,	see the Installatio	n Guide.		
	< <u>B</u> ack	<u>N</u> ext >	Cancel		

Installation

Nach Einlegen der CD von Windows Server 2003 R2 wird AD/AM installiert, welches der CSS benoetigt

👘 Microsoft	: ISA Server 2006 - Installation Wizard 📃 🔲 🗙
Installing	Microsoft ISA Server 2006
The prog	ram features you selected are being installed.
17	Please wait while the Installation Wizard installs Microsoft ISA Server 2006 . This may take several minutes.
	Status:
	Installing Configuration Storage server
	< Back Next > Cancel

ISA 2006 SP1 auf CSS installieren

🙀 Microsoft ISA Server 2006 Service Pack 1- Installation Wizard 🛛 🛛 🔀			
Microsoft Internet Security & Acceleration Server 2006	Welcome to the Update for Microsoft ISA Server 2006 Service Pack 1 The Installation Wizard will install the Update for Microsoft ISA Server 2006 on your computer. To continue, click Next.		
	< Back Next > Cancel		

ISA CSS Account auf Array und Enterprise Ebene berechtigen

Administration Delegation		? ×
Group or User:		During
ISA-CSS(ISACher		Browse
<u>R</u> ole:		
ISA Server Enterprise Administrator		
Role Description Has full control over the enterprise and permissions to assign all roles to other	d all array configu users and group:	urations, and s.
	ок	Cancel

DNS Namen angeben und entsprechende DNS Eintraege erstellen (fuer die VIP des ISA EE Array NLB)

l	🗒 ISA-ee1	Host (A)	192.9.200.24
l	ISA-DMZ-Array	Host (A)	192.9.200.222

System Policy Rule Zugriff fuer die ISA Nodes auf den CSS geben

system Policy Editor		?
Configuration Groups	General From	
Windows Networking Microsoft Error Repo HTTP Connectivity vi Logging Remote Logging (Nel Remote Logging (SQ Remote Monitoring Remote Performance Microsoft Operations SMTP Configuration Storage Se Remote Configuration P Local Configuration S Replicate Configurat Intra-array Communicati Array Member Comrr Various Scheduled Download Allowed Sites	This rule applies to traffic from these sources:	Add Edit Remove Add Edit Remove
	OK	Cancel

Array Servers Properties		
General		
'		1
Name:	Array Servers	
Computers, address ran set:	nges and subnets included in this computer	
Name	IP Addresses	
ISA-EE1	192.9.200.24	
Ad <u>d</u>	Edit Delete	_
Description (optional):	Predefined computer set of all the ISA Serve computers in this array.	r
Scope: 4	Array	
	OK Cancel Ar	ply

ISA 2006 auf ISA EE Array Mitgliedern installieren

🙀 Microsoft ISA Server 2006 - Installation Wizard	X
Setup Scenarios	
Select the scenario that best describes this installation.	
• Install ISA Server services	
The computer will be an ISA Server array member running ISA Server services.	
O Install Configuration Storage server	
The computer will store the configuration used by ISA Server arrays. ISA Server array computers will connect to this server to retrieve the configuration.	
O Install both ISA Server services and Configuration Storage server	
The computer will be an ISA Server array member and used to store the enterprise configuration.	
🔿 Install ISA Server <u>M</u> anagement	
The computer will be used to remotely manage the ISA Server enterprise.	
< Back Next > Cancel	

CSS auswaehlen

🙀 Microsoft ISA Server 2006 - Install	ation Wizard		×
Locate Configuration Storage Serve	r		
Specify the Configuration Storage serve the server.	er and the credent	ials for connecting	to
Configuration Storage server (type the	FQDN):		
ISA-CSS.DMZ.LOCAL		Br <u>o</u> wse	
Connection Credentials	the logged on use	er	
Connect using this <u>account</u> :			
User name: ISACh	nef		
Password: *****	****		
<u>.</u>			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Neues Array erstellen

🚰 Microsoft ISA Server 2006 - Installation Wizard 📃 🔰 🔁
Array Membership
Select the array membership for this ISA Server computer.
• Create a new array
Create a new array and add this ISA Server computer to that array. To create an array, you must have ISA Server Enterprise Administrator privileges.
C Join an existing array
Add this ISA Server computer to an existing ISA Server array. To join an existing array, you must have ISA Server Array Administrator privileges.
< <u>B</u> ack <u>N</u> ext > Cancel

🛃 Microsoft ISA Server 2006 - Installation Wizard 🛛 🛛 🗙			
Create New Array			
Enter a name, description and DNS n	name for the new array.		
Array name: ISA-DMZ	-Array		
Description:			
Enter the DNS name used by Firew this ISA Server array.	all Clients and Web clients when connecting to		
Array DNS name: ISA-DMZ	-Array.DMZ.LOCAL		
	< <u>B</u> ack <u>N</u> ext > Cancel		

DNS Eintrag erstellen fuer die NLB VIP der ISA Array Knoten

ISA-CSS	Host (A)	192.9.200.23
ISA-DMZ-Array	Host (A)	192.9.200.222
ISA-ee1	Host (A)	192.9.200.24

Auth. ueber SSL

🙀 Microsoft ISA Server 2006 - Installation Wizard 🛛 🛛 🗙				
Configuration Storage Server Authentication Options				
Select how the ISA Server computer will authenticate to the Configuration Storage server.				
○ <u>W</u> indows authentication				
This ISA Server computer and the Configuration Storage server it will connect to reside in the same domain or in trusted domains. The connection will be encrypted (signed and sealed).				
Authentication over SSL encrypted channel				
This ISA Server computer and the Configuration Storage server it will connect to do not reside in trusted domains, or either computer is part of a workgroup. This computer must trust the Certificate Authority (CA) which issued the server certificate to the Configuration Storage server.				
Use an existing trusted root CA certificate				
Install a trusted root CA certificate				
Browse,				
For details about installing certificates, see the Installation Guide.				
< <u>B</u> ack <u>N</u> ext > Cancel				

Interne IP-Bereiche angeben

Enterprise Policy auswaehlen

🔂 Microsoft ISA Server 2006 - Installa	tion Wizard		×
Select Enterprise Policy			
Enterprise policies determine the array t	raffic that is allow	ved.	
Select the enterprise policy that will	be applied to the	array.	
Enterprise policy: Defau	It Policy	•	
If no enterprise policies have only policy available during Se enterprise policy after Setup o	been created, the tup. You can crea completes.	e default enterprise ate and apply a diffe	policy is the erent
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Installieren

SP1 installieren

Danach ist das Array auf Zertauth eingestellt

ISA-DMZ-Array Properties	<u>? ×</u>
General	Policy Settings
Intra-Array Credentials Assign Role	s Customer Feedback
Configuration Storage Pub	lished Configuration Storage
Specify the Configuration Storage server use configuration. When the specified server is u will be used.	ed to store the array unavailable, the alternate server
Configuration Storage server (enter the FQD	N):
isa-css.dmz.loca	Browse
Alternate Configuration Storage server (optio	nal):
	Browse
Check the Configuration Storage server for u	updates every:
15 seconds	
Select the authentication type used for conn and the Configuration Storage server:	ections between ISA Server
Authentication over SSL encrypted channel	<u>Select</u>
To save these settings, this compute the specified Configuration Storage s	er must be able to connect to servers.
OK	Cancel Apply

Authentifizierung auf dedizierten Account umstellen

1	SA-DMZ-Array Properties			<u>? x</u>	
20	General	Í	Policy Settings		
	Configuration Storage	Published	Configuration Storage	i i	nee
	Intra-Array Credentials	Assign Roles	Customer Feedba	ck	
172 k:	Specify which credentials a performing intra-array comm	an array member shou nunication:	ld use when		Ta
	 Authenticate using the 	computer account of	the array member		A
	A computer ac members belor	count can only be us ng to an Active Direct	ed when array ory domain.		
	Authenticate using this	account (for workgro	up configuration only):		R
			Set Account		
	Set Account			?	׾
	Use the following account:				۶
	<u>U</u> ser:	ISACHEF			
	Password:	•••••			
	Confirm password:	•••••			
			DK Cancel		

Array Auth. auf Zertifikate umstellen

ISA-DMZ-Array Properties			? ×
Intra-Array Credentials General Configuration Storage Specify the Configuration Sto configuration. When the spe will be used.	Assign Role Publ prage server use cified server is u	s Custom Policy Settir shed Configurati d to store the arr navailable, the a	ner Feedback ngs on Storage ay Iternate server
Configuration Storage server isa-css Alternate Configuration Stora	(enter the FQD) ge server (option	4); 	Browse
Check the Configuration Stor	rage server for u	pdates every:	Browse
Select the authentication typ and the Configuration Storag	e used for conn e server:	ections between	ISA Server
, To save these setting the specified Configu	gs, this compute Iration Storage s	rmust be able to ervers.	connect to
	OK	Cancel	Apply

Wenn man von Windows auf SSL Auth umstellt, kann folgende Meldung kommen: OK, Fehlermeldung, weil der Name des Certs auf den FQDN ausgestellt ist, im CSS aber der NetBIOS Name eingetragen ist, also aendern

1 🖉	ISA-DMZ-Array Properties			?>	<u>دا</u>
y and Acc	Intra-Array Credentials	Assign Roles	Custome	r Feedback	
	General	_1	Policy Setting	js	Firev
	Configuration Storage	Publishe	ed Configuration	n Storage	Arra
· (ISA-DM2 > Network:	Specify the Configuration Stora configuration. When the specif will be used.	ige server used to ied server is unav) store the array vailable, the alte) ernate server	Toolbox
na	Configuration Storage server (e	enter the FQDN):			Fire
	isa-css			Browse	Task
Micros	oft Internet Security and Acce	eleration Serve	r 2006		×
Ū,	Authentication over SSL encry not be verified. To apply the c isa-css must first be installed o	pted channel with onfiguration to IS n the Configurati	n the Configura A Server comp on Storage ser	ation Storage se buters, a certific rver.	rver could ate named
	ОК	Cancel	Help		
	and the Configuration Storage	server:			PTC
	Authentication over SSL encru	voted channel		Select	Cri
	Authentication over SSL encry	vpted channel , this computer mu tion Storage serve	ust be able to c ers.	<u>S</u> elect	Polic
	Authentication over SSL encry	vpted channel , this computer mu tion Storage serve	ust be able to c ers.	<u>S</u> elect	Polic Syst

CSS Access fuer die ISA EE Array Nodes erlauben

onriguration Groups General From	
Terminal Server Web Management ICMP (Ping) Diagnostic Services ICMP Windows Networking Microsoft Error Repo HTTP Connectivity vi Logging Remote Logging (SQ Remote Monitoring Remote Performance Microsoft Operations SMTP Configuration Storage Se Remote Configuration Local Configuration Storage Se Replicate Configuration Local Configuration Intra-array Communication	Add Edit Remove

Intraarray NIC und Namen angeben

isa-ee1 Properties
General CARP Communication
Intra-Array Communication Use this IP address for communication between array members:
192.9.200.24
Remote Communication Specify the computer name or IP address used to get monitoring and other server specific information for this ISA Server when remotely managing the array.
isa-ee1
• Use this IP address or computer <u>n</u> ame:
isa-ee1.dmz.local
Help about array communications
OK Cancel <u>Apply</u>