

Forefront UAG Array/NLB mit SP1 Release Candidate (RC)

Dieses Bilderbuch beschreibt die Einrichtung von Forefront UAG SP1 RC in einem Array mit NLB Integration und des Umbaus der Portal- und DA-Lösung auf den HA-Verbund.

Details zu UAG und UAG DA:

<http://www.it-training-grote.de/download/FF-UAG-DA-SP1-RC.pdf>

<http://www.it-training-grote.de/download/FF-UAG-DA.pdf>

<http://www.it-training-grote.de/download/FF-UAG-nrw2010.pdf>

<http://www.it-training-grote.de/download/Forefront-UAG.pdf>

<http://www.it-training-grote.de/download/UAG-Array.pdf>

<http://www.it-training-grote.de/download/UAG-DA-T-mobile.pdf>

<http://www.it-training-grote.de/download/UAG-DA-Vodafone.pdf>

<http://www.it-training-grote.de/download/UAG-DA.pdf>

<http://www.it-training-grote.de/download/UAG-Update1.pdf>

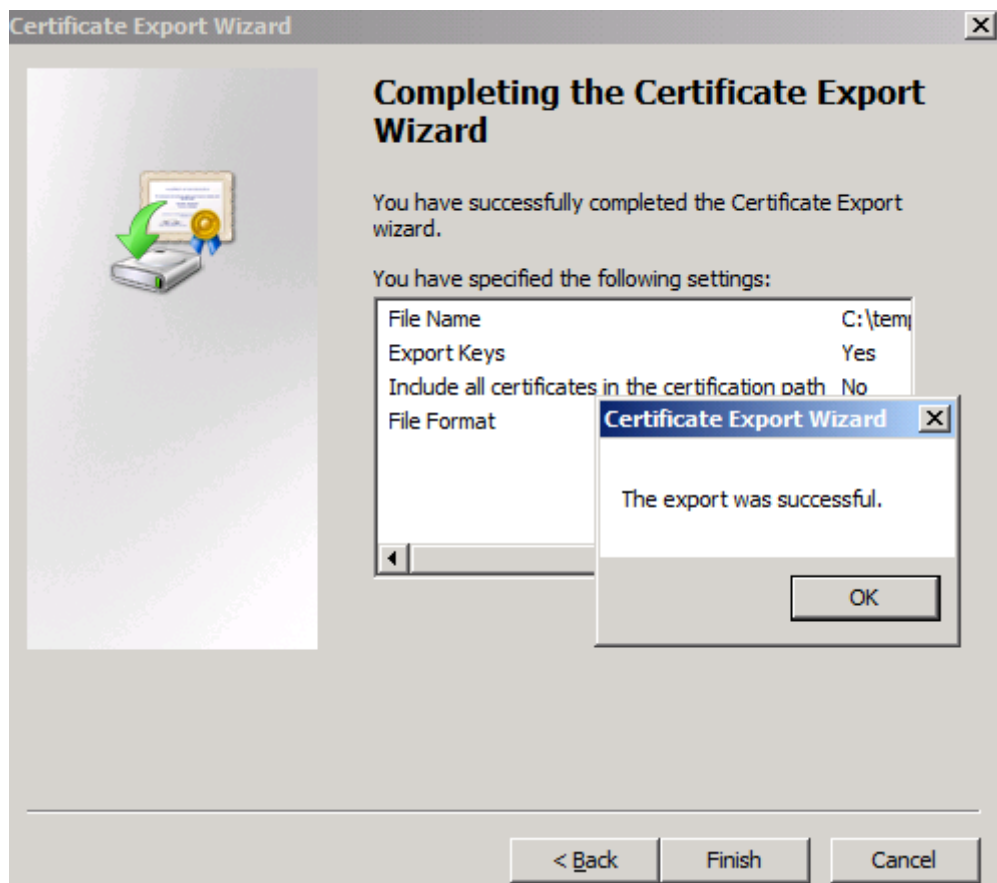
<http://www.it-training-grote.de/download/UAG.pdf>

<http://www.it-training-grote.de/download/UAG2010Beta.pdf>

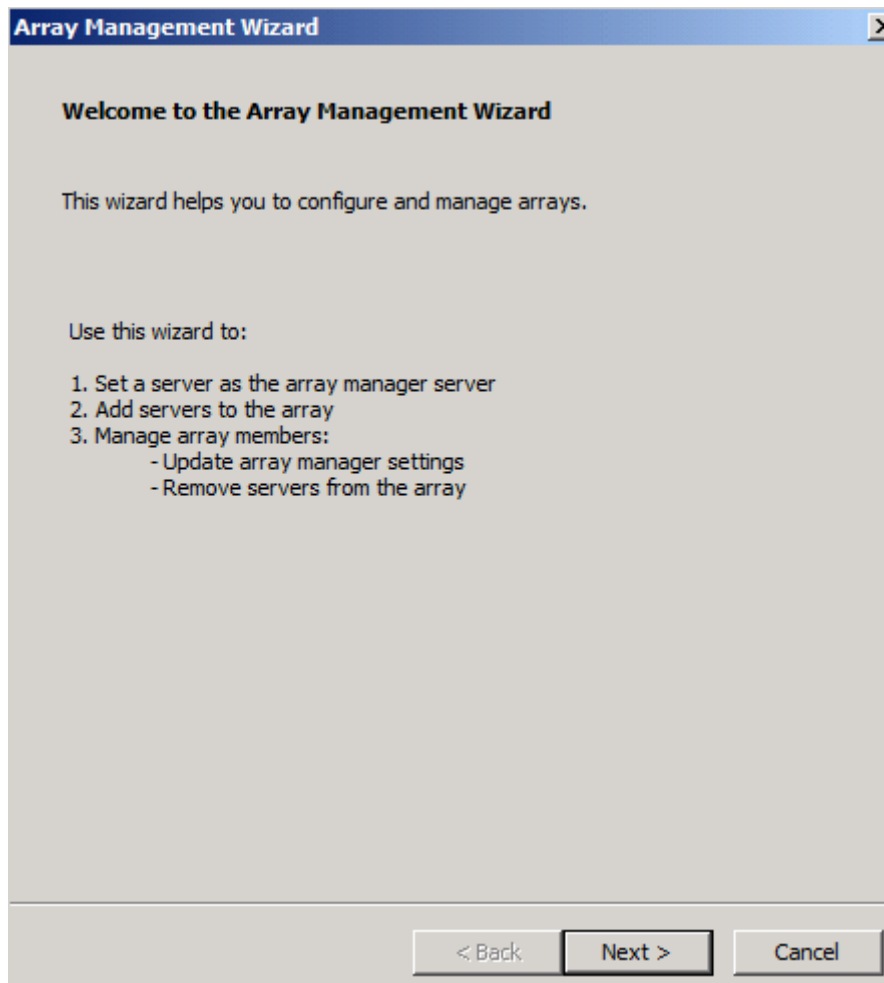
Zertifikate

Zertifikate müssen auf allen Array Managern mit Private Key verfügbar sein, also alle Zertifikate als .PFX von dem ersten UAG Server exportieren und auf den anderen Array Mitgliedern importieren

Export



Array erstellen



Array Management Wizard



Step 1 - Configure Array Settings

Configure array membership, or set this server as the array manager.
Select one of the options below.

- Set this server as the array manager
- Add this server to an array
- Change the array manager used by this server
- Remove this server from an array
- Specify array credentials



Current server status: Single server

< Back

Next >

Cancel

Array Management Wizard



Step 2 - Specify Array Credentials

Specify the credentials used to connect to storage and to retrieve server-specific settings from array members.

Credentials

User name:	<input type="text" value="administrator"/>
Password:	<input type="password" value="••••••••"/>
Confirm password:	<input type="password" value="••••••••"/>
Domain:	<input type="text" value="TRAINER"/>

< Back

Next >

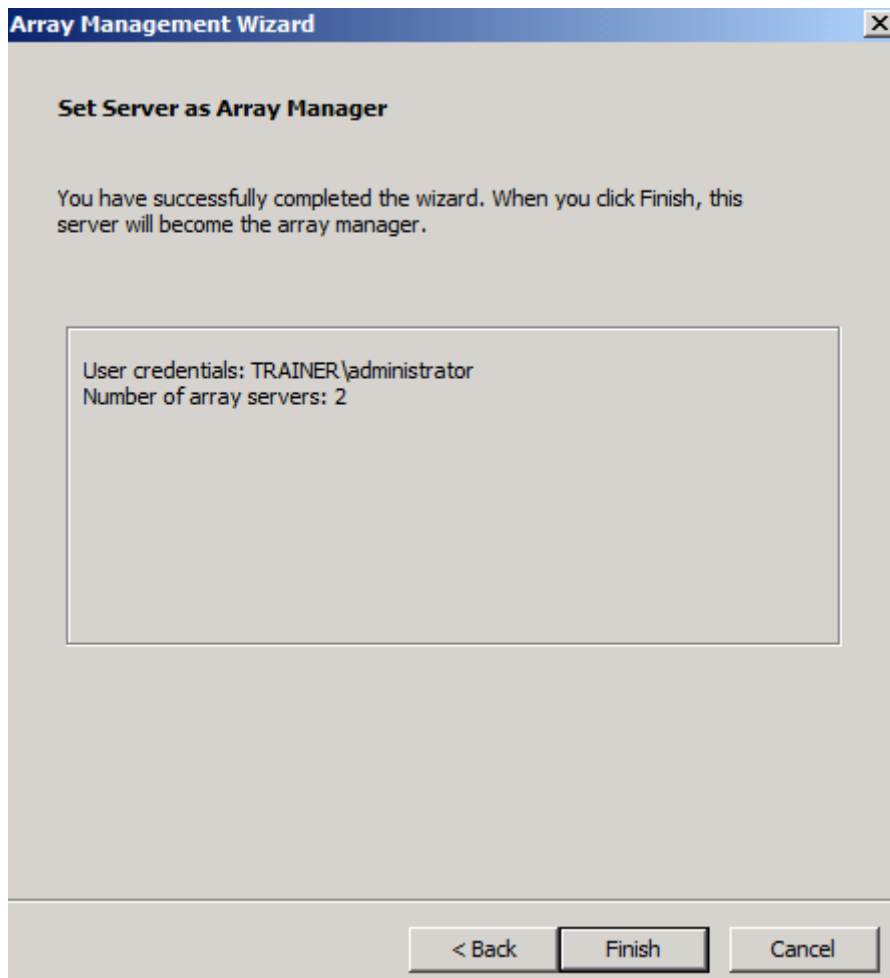
Cancel

Array Management Wizard ✕

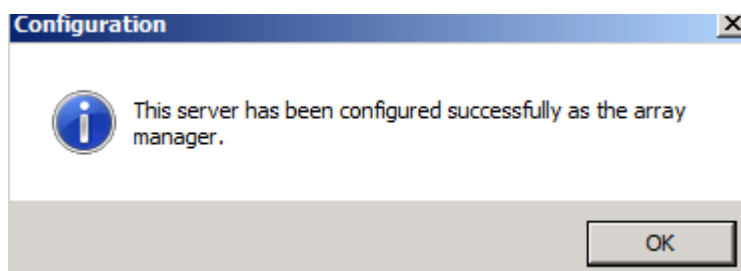
Step 3 - Defining Array Member Computers

Add the Forefront Unified Access Gateway servers that will be configured as array members and managed by this array manager server.

Name	IP Address	Status
UAG2	10.80.16.81	Not joined



Sekunden spaeter



Save configuration – Activate configuration

Array Management Wizard



Step 1 - Configure Array Settings

Configure array membership, or set this server as the array manager.
Select one of the options below.

- Set this server as the array manager
- Add this server to an array
- Change the array manager used by this server
- Remove this server from an array
- Specify array credentials



Current server status: Single server

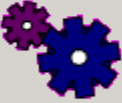
< Back

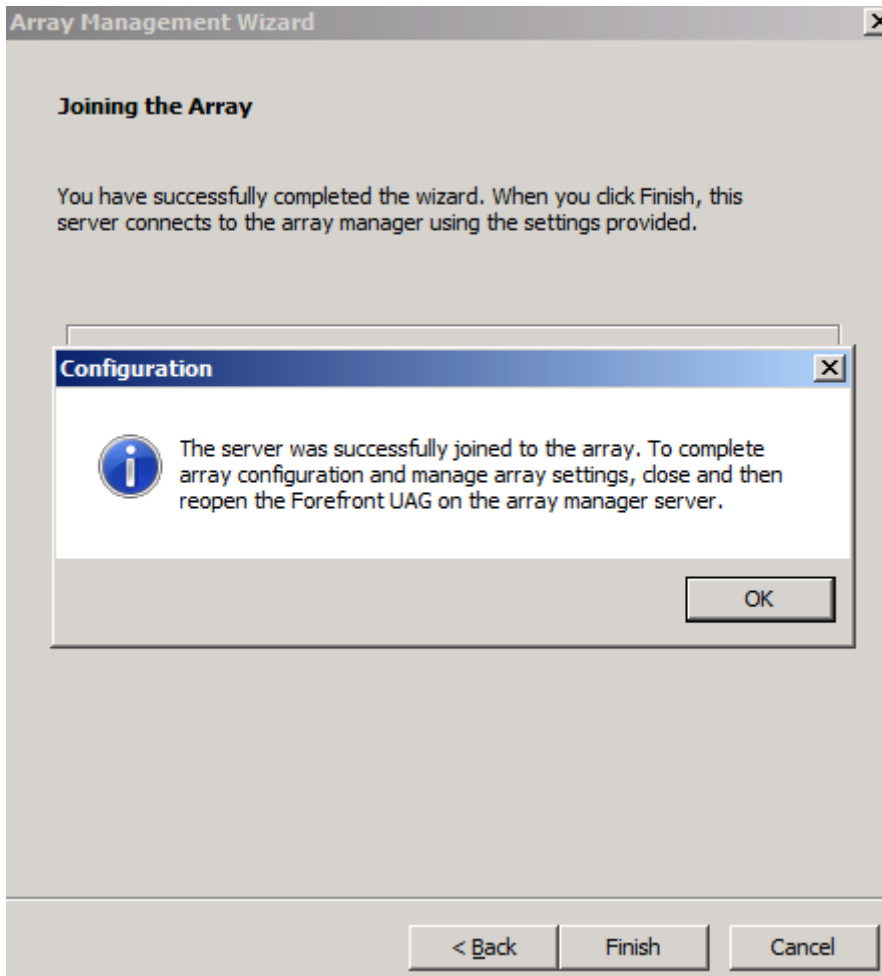
Next >

Cancel

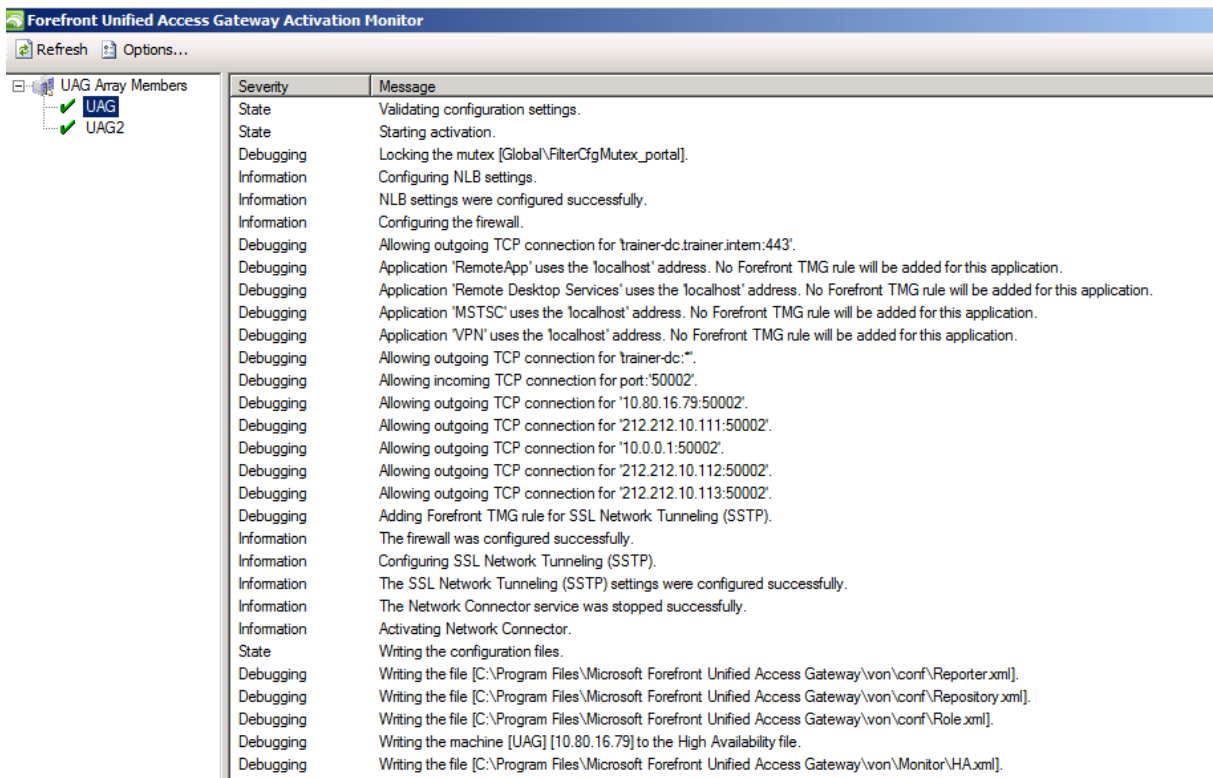
Joining the Array

You have successfully completed the wizard. When you click Finish, this server connects to the array manager using the settings provided.

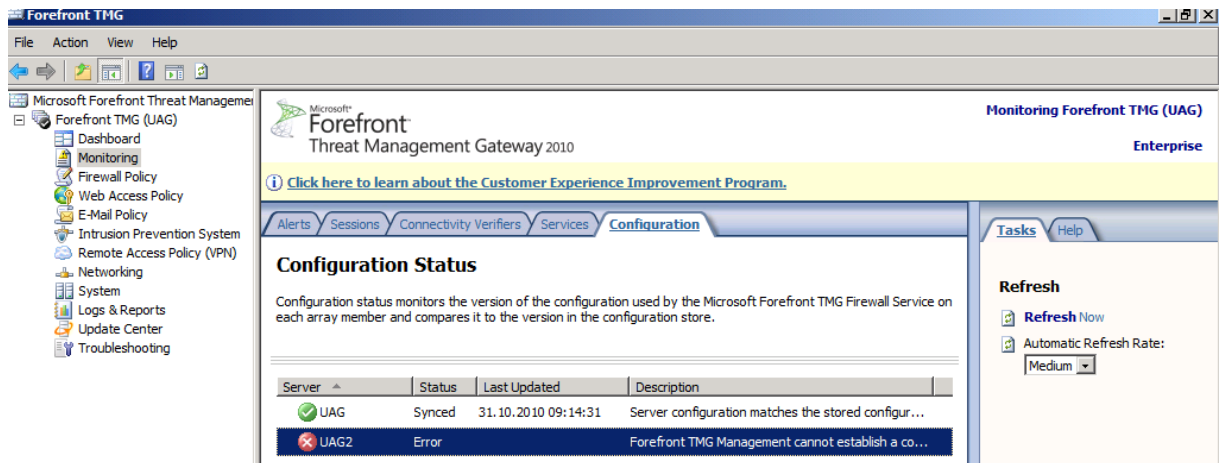
Array mana Automatic b Array crede	Joining the array. This might take a few minutes. Please wait... 	
------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------	--



Jetzt gibt es auch zwei Server im Array

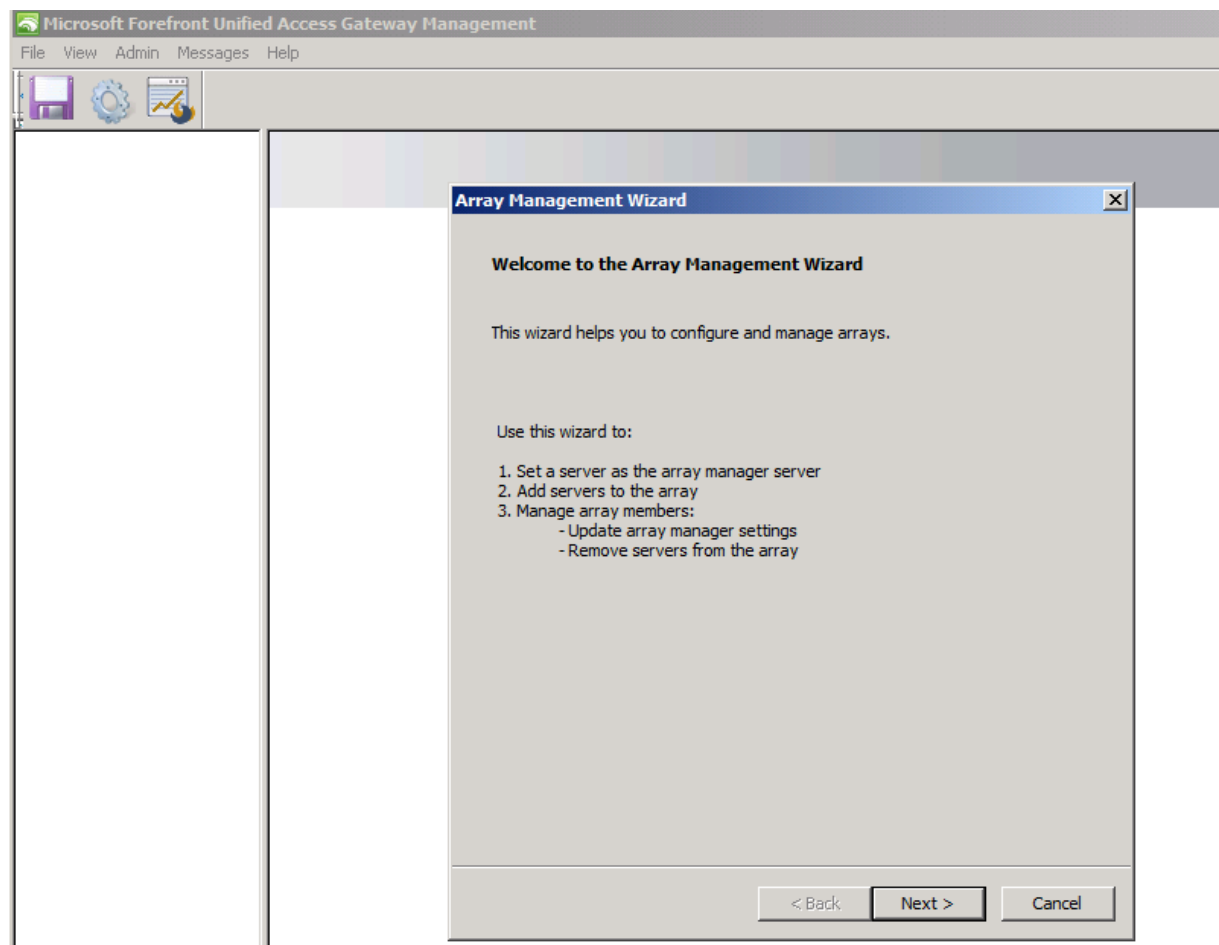


In der TMG Konsole ist noch Rot angesagt



Kraeftig durchsyncen, Geduld haben und auch mal die TMG MMC neu starten. Manchmal ist die Anzeige trotz Refresh Button nicht ehrlich ☹

UAG Verwaltung kann auch nur noch ueber den Array Manager erfolgen



Array Management Wizard [X]

Step 2 - Select Array Manager

Select the array manager, and specify the credentials used to connect to it.

Array manager (IP address or FQDN):


User credentials

Enter a user account that has administrator permissions on every array member. It is recommended that you use an account with a long expiry period.

User name:

Password:

Domain:

 Make sure that you have added this server to the list of array members on the array manager.

Jetzt geht es ans Eingemachte – NLB

Vorher alle verfügbaren Hotfixe installieren – Mindestens KB977342!

Network Load Balancing [X]

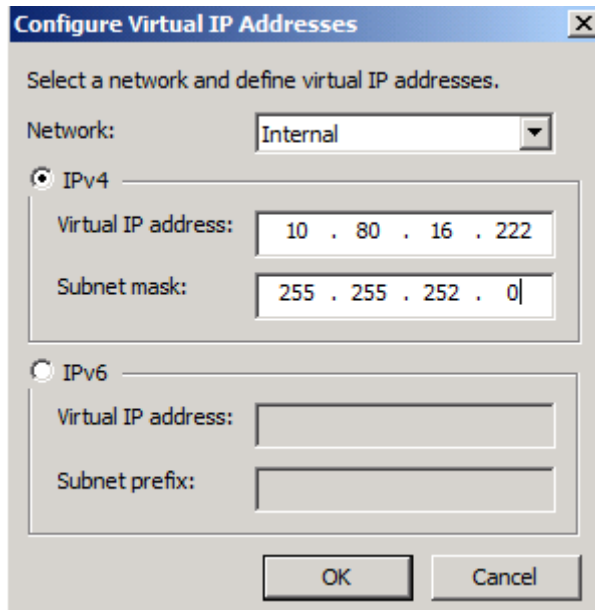
Define virtual IP addresses to configure Network Load Balancing (NLB).

Virtual IP	Interface Type	Subnet	Address Type	In Use

NLB mode: ▼

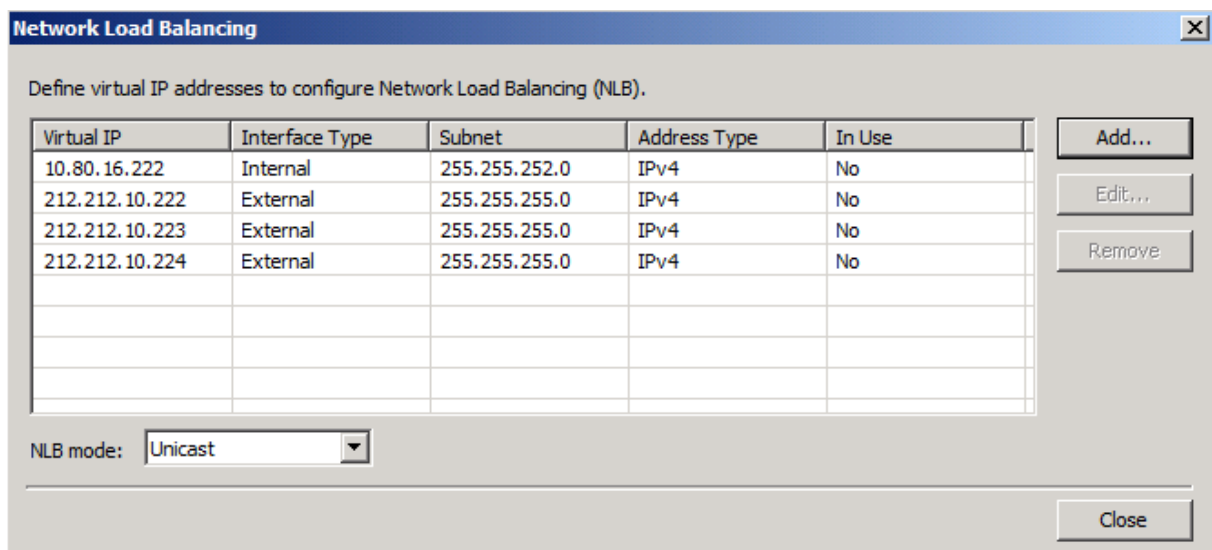
Achtung: DA kann nur Unicast!!

<http://technet.microsoft.com/en-us/library/ee191502.aspx#single>



The dialog box is titled "Configure Virtual IP Addresses". It contains a dropdown menu for "Network" set to "Internal". There are two radio buttons: "IPv4" (selected) and "IPv6". Under "IPv4", there are input fields for "Virtual IP address" (10 . 80 . 16 . 222) and "Subnet mask" (255 . 255 . 252 . 0). Under "IPv6", there are empty input fields for "Virtual IP address" and "Subnet prefix". At the bottom are "OK" and "Cancel" buttons.

Fuer dieses Beispiel benoetigen wir drei VIP am externen Interface. 2 VIP mit aufeinanderfolgenden IP-Adressen fuer DirectAccess und eine oeffentliche IP fuer das Portal



The dialog box is titled "Network Load Balancing". It contains a table with the following data:

Virtual IP	Interface Type	Subnet	Address Type	In Use
10.80.16.222	Internal	255.255.252.0	IPv4	No
212.212.10.222	External	255.255.255.0	IPv4	No
212.212.10.223	External	255.255.255.0	IPv4	No
212.212.10.224	External	255.255.255.0	IPv4	No

Below the table is a dropdown menu for "NLB mode" set to "Unicast". On the right side, there are buttons for "Add...", "Edit...", and "Remove". At the bottom right is a "Close" button.

Konfiguration speichern und aktivieren

Erste zaghafte NLB Versuche ☺

Server	Service	Status	Service Uptime
UAG	SQL Server (ISARS)	Running	
UAG	SQL Server Reporting Services (I...	Running	
UAG	Microsoft Forefront TMG Firewall	Running	01:11:17
UAG	Microsoft Forefront TMG Job Sch...	Running	01:12:33
UAG	Remote Access Service	Running	
UAG	Network Load Balancing	Unavailable	
UAG	SQL Server Express	Running	
UAG	Microsoft Forefront TMG Manage...	Running	
UAG2	Microsoft Forefront TMG Firewall	Running	00:29:00
UAG2	Microsoft Forefront TMG Job Sch...	Running	00:29:43
UAG2	Remote Access Service	Running	
UAG2	Network Load Balancing	Unavailable	
UAG2	SQL Server Express	Running	
UAG2	Microsoft Forefront TMG Manage...	Running	

Hmm, wird nicht gruener ☹

UAG	Remote Access Service	Running
UAG	Network Load Balancing	Stopped
UAG	SQL Server Express	Running
UAG	Microsoft Forefront TMG Managed Control	Running
UAG2	Microsoft Forefront TMG Firewall	Running
UAG2	Microsoft Forefront TMG Job Scheduler	Running
UAG2	Remote Access Service	Running
UAG2	Network Load Balancing	Stopped due to a VPN problem
UAG2	SQL Server Express	Running

Warum?

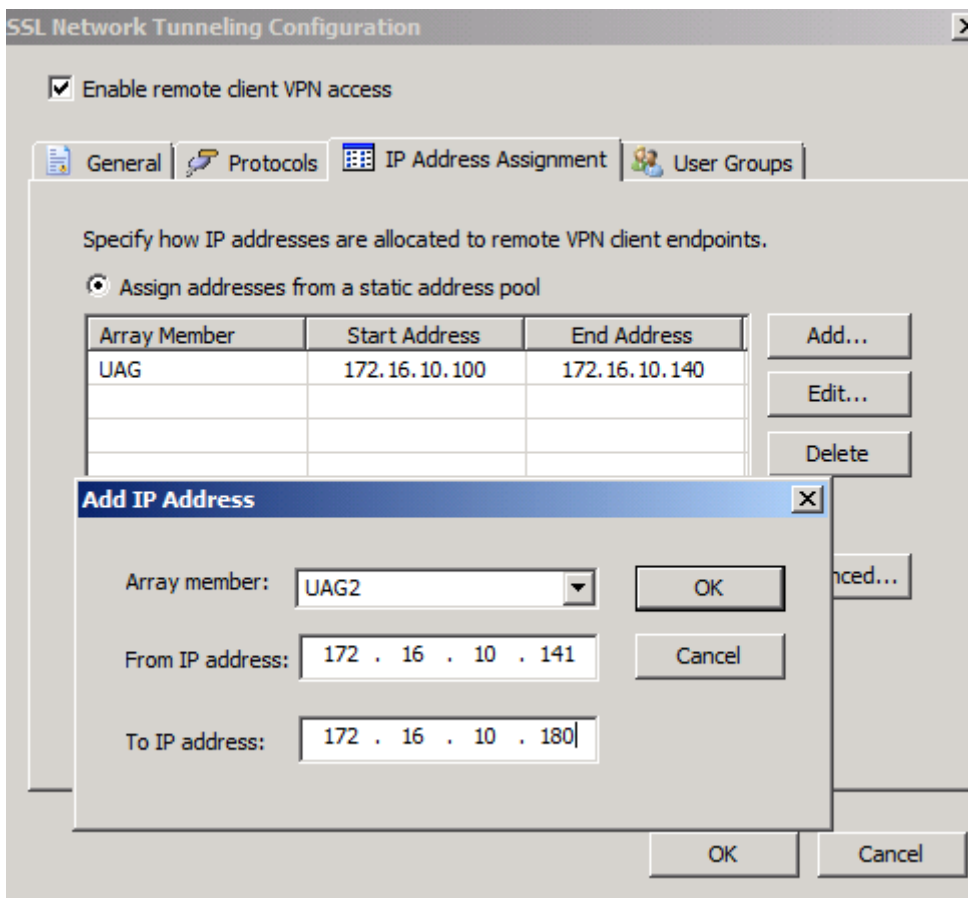
⊞	⚠ NLB Stopped - VPN Static Address Pool I...	31.10.2010 09:45:47	New	Network Load Balan...	UAG2
	NLB Stopped - VPN Static Address Pool I...	31.10.2010 09:45:47	New	Network Load Balan...	UAG2
⊞	⚠ SYN Attack	31.10.2010 09:46:26	New	Security	UAG2

Alert Information

Description: Network Load Balancing on the local computer will be stopped because the VPN Static Address Pool is empty. Network Load Balancing will remain stopped until at least one range of IP addresses is specified in the VPN Address Assignment properties page.
















Aha deshalb, also ausbessern

OK, der erste Server war schon drin und da bei einem Array kein DHCP verwendet werden kann benoetigen wir zwei statische IP-Adressbereiche



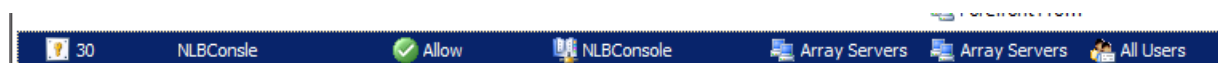
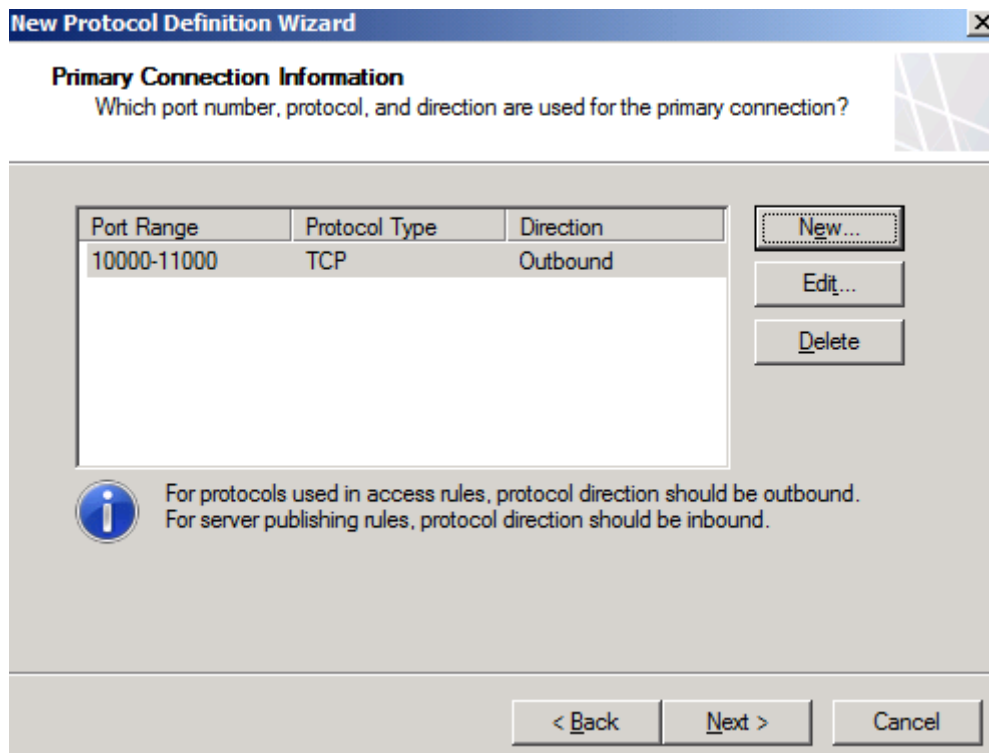
Also nach Konfigsync die NLB Dienste nochmal starten

Danach ist alles schick

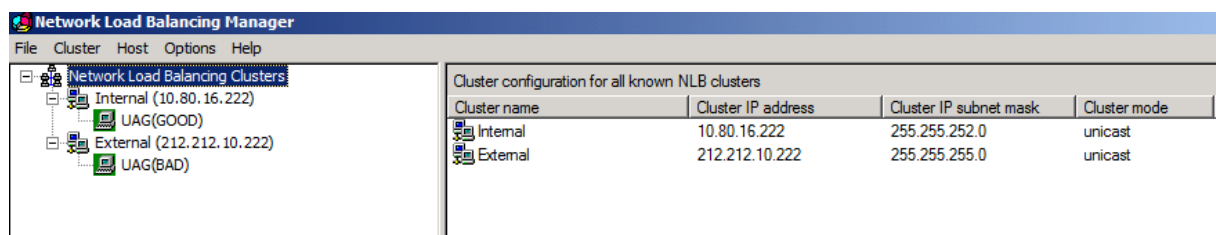
Alerts	Sessions	Connectivity Verifiers	Services	Configuration
Server	Service	Status		
 Reporting Services Group				
 UAG	SQL Server (ISARS)	Running		
 UAG	SQL Server Reporting Services (ISARS)	Running		
 UAG	Microsoft Forefront TMG Firewall	Running		
 UAG	Microsoft Forefront TMG Job Scheduler	Running		
 UAG	Remote Access Service	Running		
 UAG	Network Load Balancing	Running		
 UAG	SQL Server Express	Running		
 UAG	Microsoft Forefront TMG Managed Control	Running		
 UAG2	Microsoft Forefront TMG Firewall	Running		
 UAG2	Microsoft Forefront TMG Job Scheduler	Running		
 UAG2	Remote Access Service	Running		
 UAG2	Network Load Balancing	Running		
 UAG2	SQL Server Express	Running		
 UAG2	Microsoft Forefront TMG Managed Control	Running		

In der NLB Konsole von Windows gibt es noch das bekannte Connectivity Problem!

Fixen



NLB Konsole



Forefront UAG Web Monitor

Microsoft Forefront Unified Access Gateway - Web Monitor - Windows Internet Explorer

http://localhost:50002/

Web Monitor

Array Monitor

Nodes (2)

select an option to apply Apply

	Node Name	Node IP	NLB Status	Synchronization Status
<input type="checkbox"/>	UAG	10.80.16.79	Converged	Synched
<input type="checkbox"/>	UAG2	10.0.0.2	Converged	Synched

Portal auf integriertes NLB einstellen und DNS Records aktualisieren

Microsoft Forefront Unified Access Gateway Management

File View Admin Messages Help

Forefront UAG

- HTTP Connections
- HTTPS Connections
 - Portal
 - DirectAccess

Portal

External Site Name

Specify the name that clients type in the browser to access the site.

Public host name: Port:

External Site Address

HTTPS Port:

Use integrated NLB

Virtual IP: Add

Applications

Application Name	Application Type
Portal	Portal
OWA	Microsoft Exchange Server ...
RemoteApp	RemoteApp
MSTSC	Remote Desktop (User def...
VPN	Remote Network Access

DA Konfiguration aendern

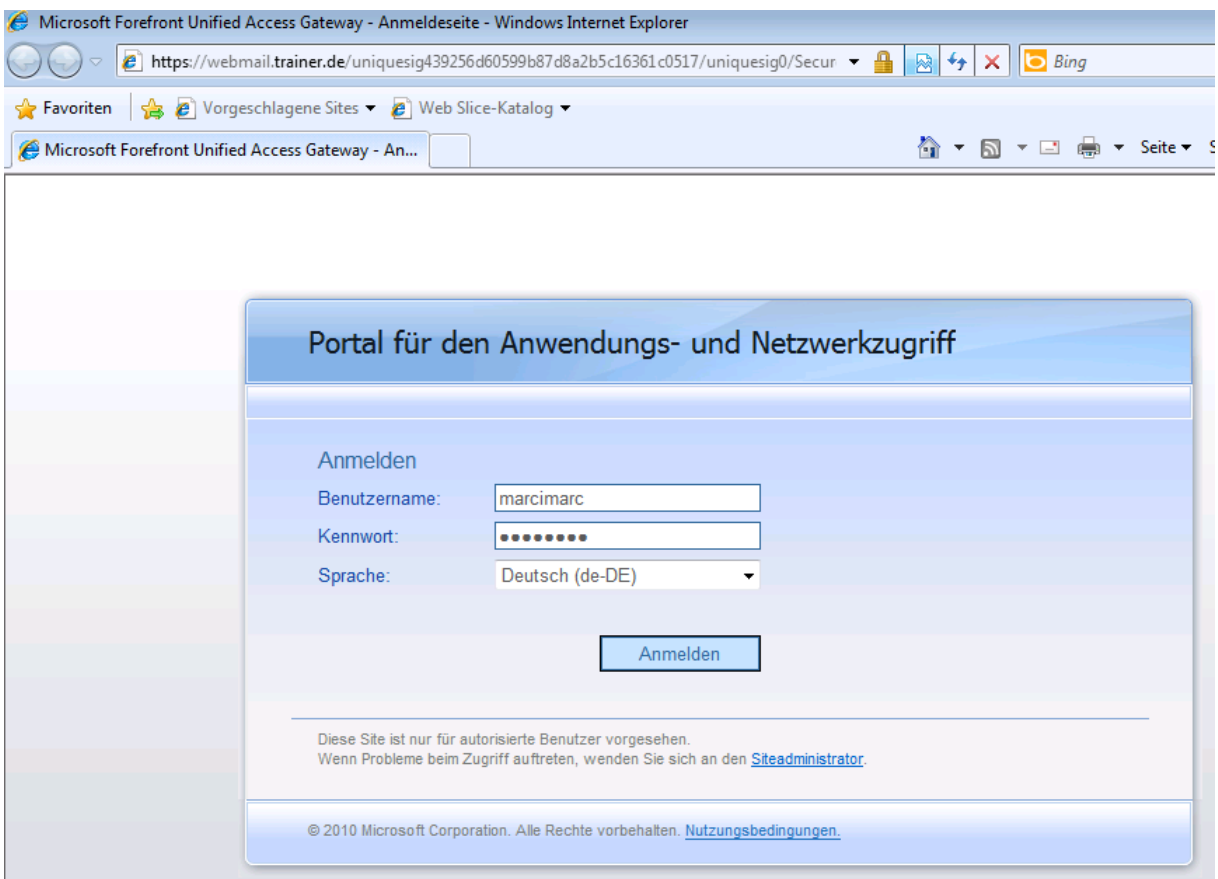
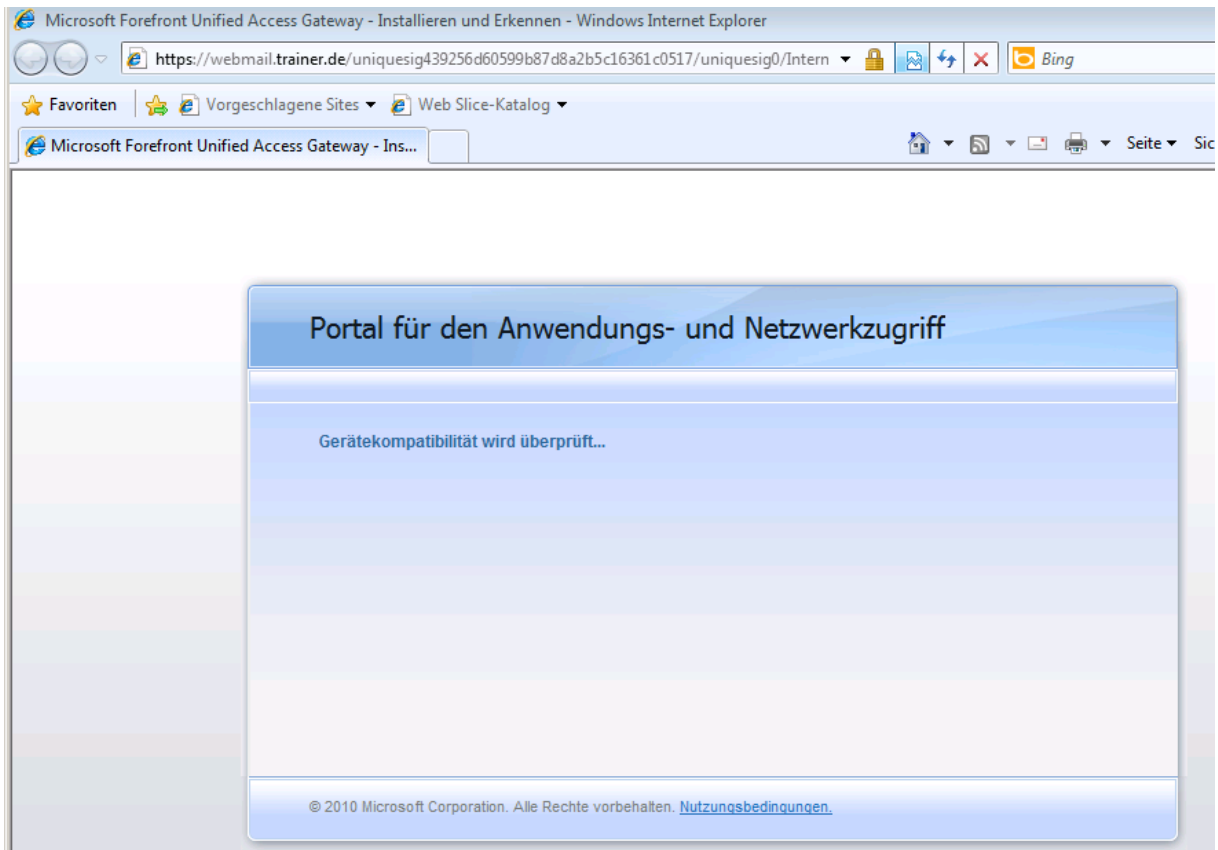
Beim Aufruf des DA Knoten in der UAG MMC wird erkannt, das sich die Konfiguration geaendert hat und man muss den DA Assistenten neu starten und die IP-Adresse auf die BLB VIPs anpassen.

The screenshot shows the 'UAG DirectAccess Server Configuration' wizard window. The title bar reads 'UAG DirectAccess Server Configuration'. The main title is 'UAG DirectAccess Server Configuration'. On the left, a navigation pane lists 'Load Balancing', 'Connectivity' (selected), 'IP-HTTPS Certificate', and 'IPsec Certificate Authentication'. The main area contains the following text: 'To set up the UAG DirectAccess server, assign IP addresses to the Internet-facing and internal networks.' Below this is a diagram showing a 'UAG DirectAccess Server' connected to an 'Internet' cloud and an 'Internal network' cloud. The 'Internet-facing' section has a 'First Internet-facing IPv4 address' dropdown set to '212.212.10.222' and a 'Second Internet-facing IPv4 address' field with '212.212.10.223'. The 'Internal' section has an 'Internal IPv4 address used when ISATAP is deployed on the UAG DirectAccess server:' dropdown set to '10.80.16.222' and an empty 'Internal IPv6 address:' dropdown. An information box at the bottom states: 'ISATAP IPv6 transition technologies will be enabled on the UAG DirectAccess server. Register the DNS name "ISATAP" with "10.80.16.222, 10.80.16.79, 10.0.0.1" on the DNS in all domains to enable IPv6 connectivity on these domains. In addition ensure that ISATAP is not blocked in the [Global Query Block List](#) on all DNS servers.' At the bottom, there is a 'Learn more...' link and navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

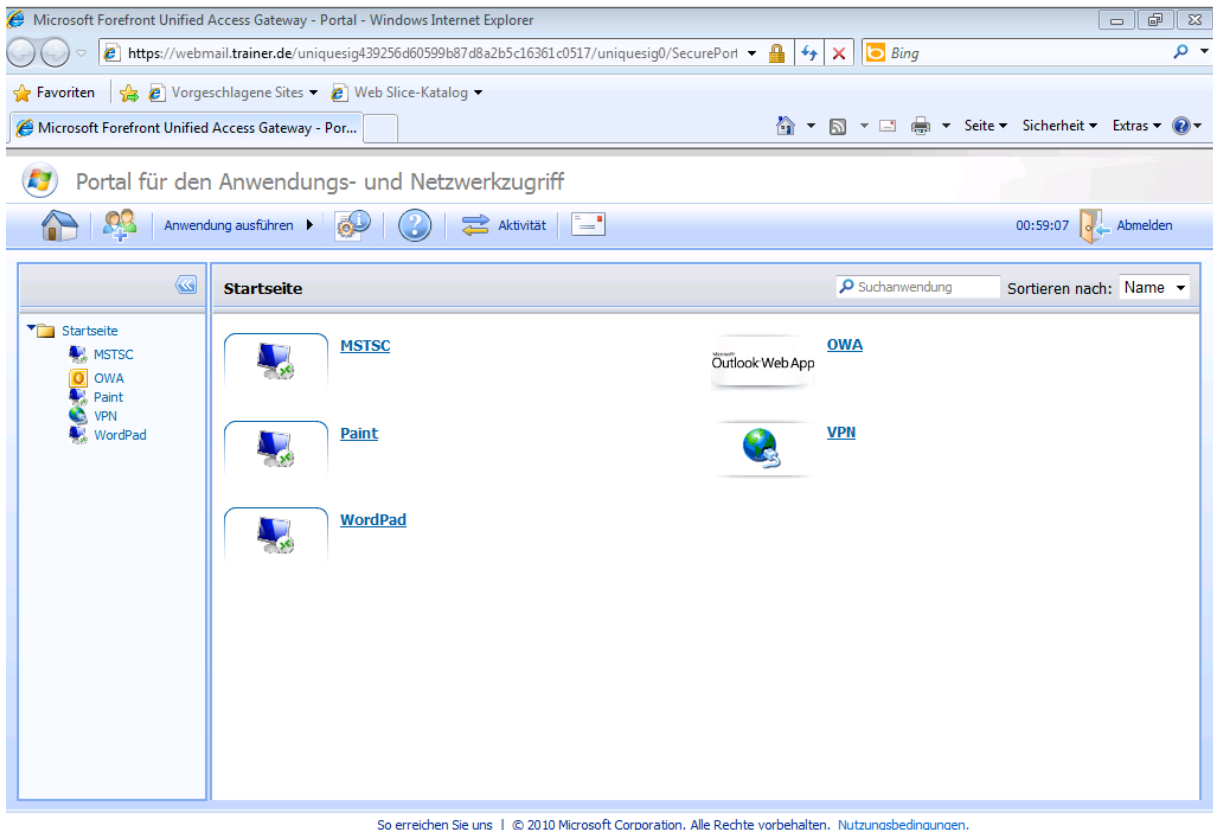
Nicht vergessen, die Group Policies zu aktualisieren und entsprechende ISATAP Eintraege im DNS vorzunehmen und den vorhandenen ISATAP Eintrag zu loesen.

Danach das uebliche speichern der UAG Konfig und Aktivierung der selbigen

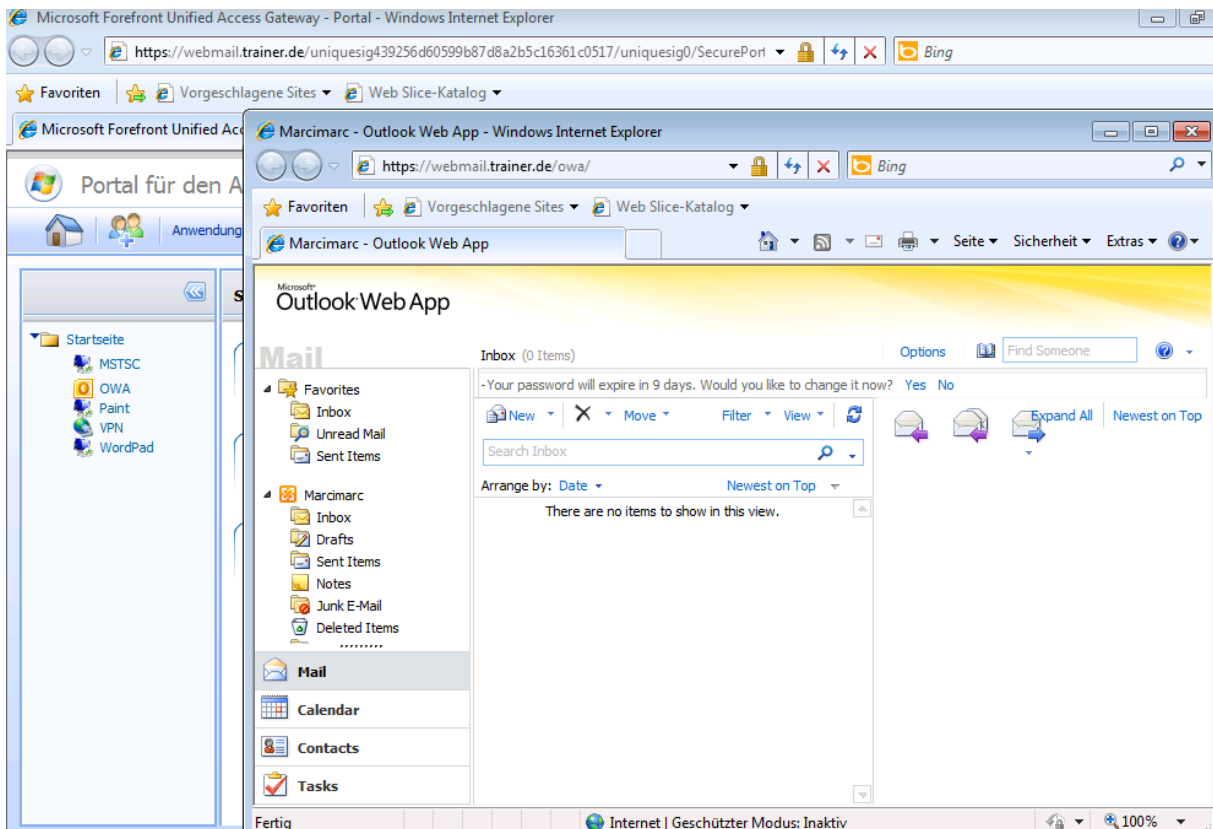
Portalzugriff nach Änderungen testen



Prima, das Portal ist noch da



Outlook Web App und der Rest geht auch noch!



Zu guter letzt noch DA testen 😊

Finish not swedish