



Quickinstallation UMGateway 7.15.x on Windows 2012

Quickinstallation

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Version 7.15
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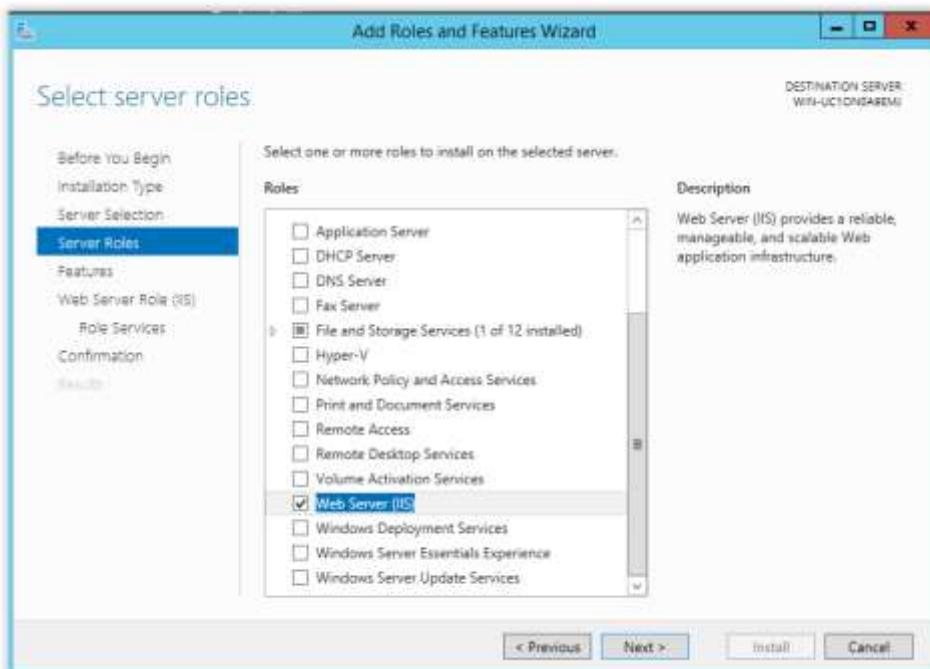
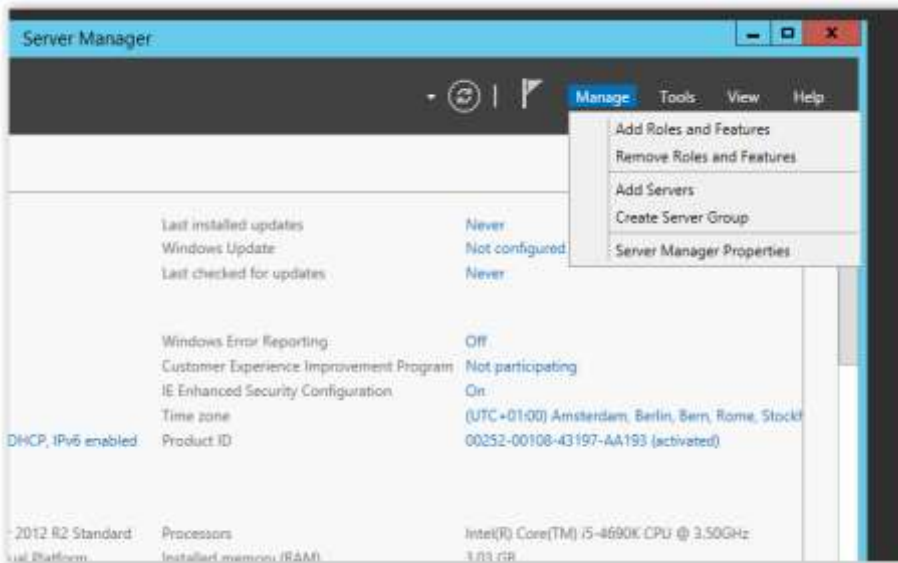
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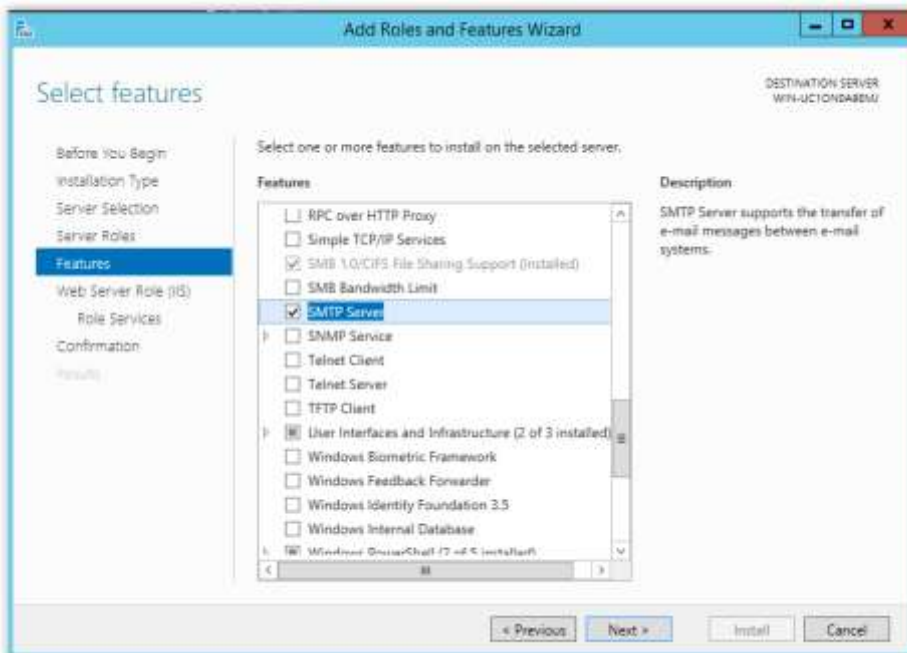
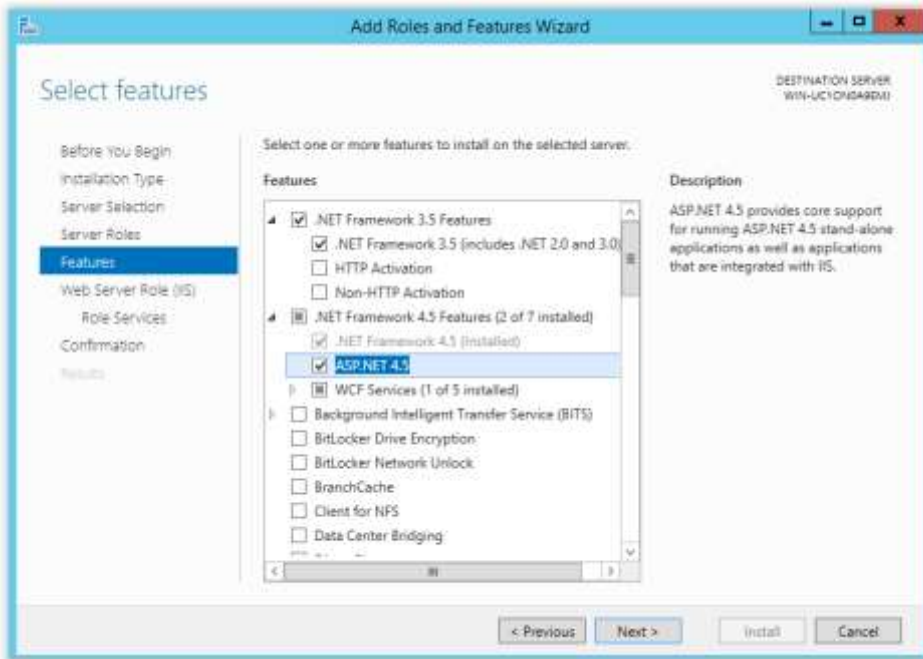
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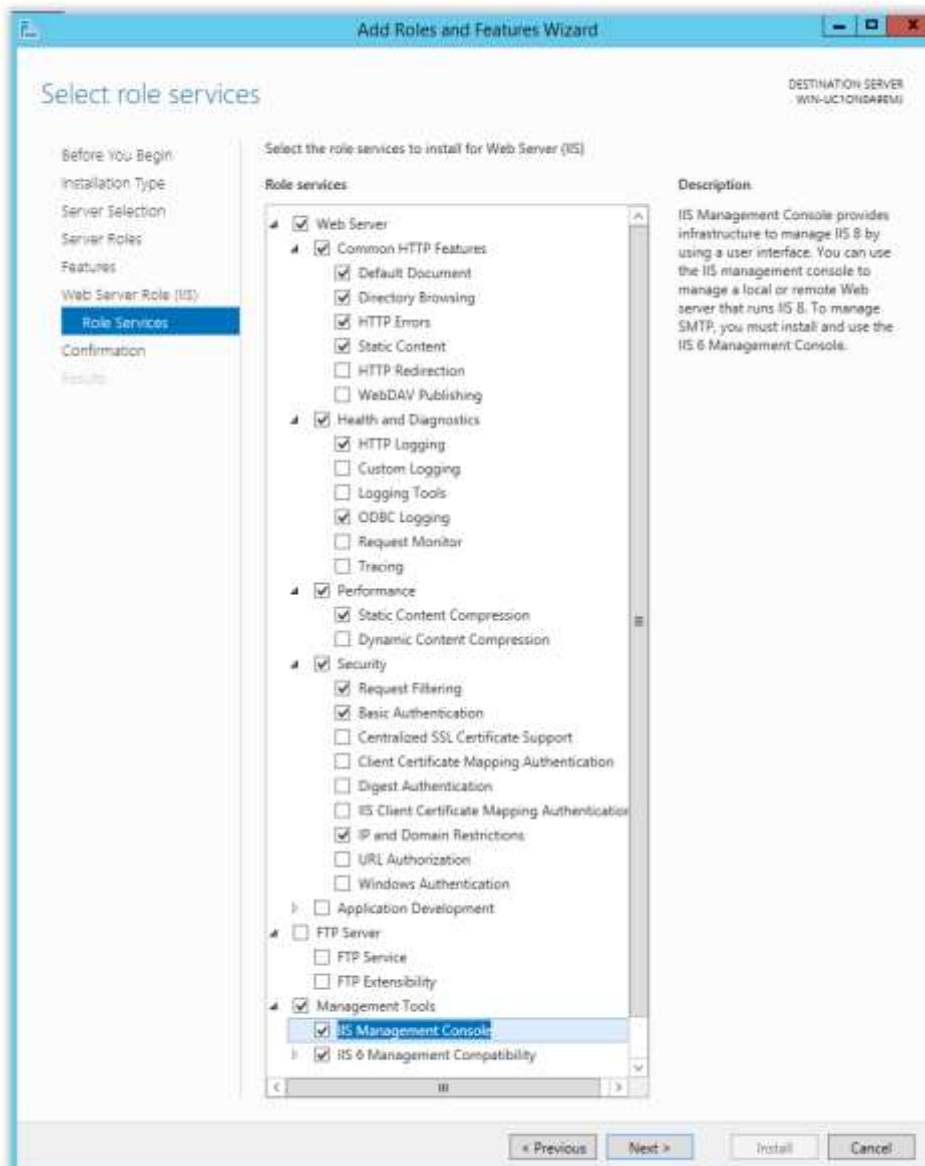
Windows Preparation

Roles and Features

Service Manager -> Add Roles and Features







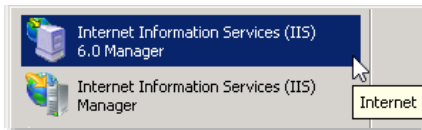
Windows SMTP Service Configuration

Windows SMTP Mail Service

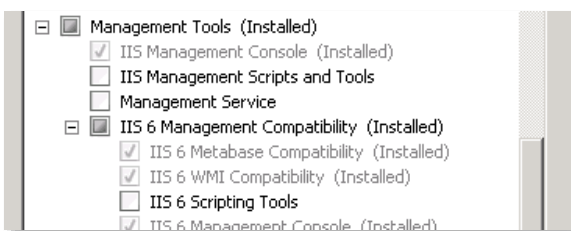
To send and receive sms and other multimedia messages you have to define the smtp domain's allowed to process by the service.

SMTP Configuration

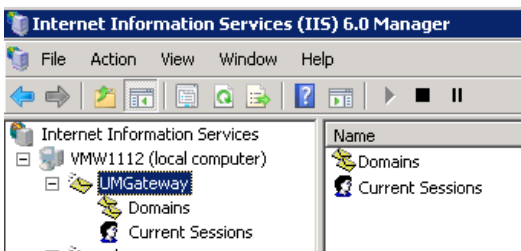
Start the IIS 6 Console



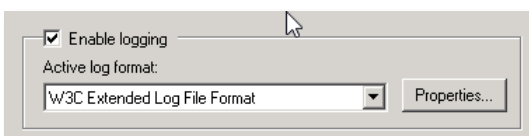
If it is not available please check the iis role services



Rename the Default smtp service to UMGateway

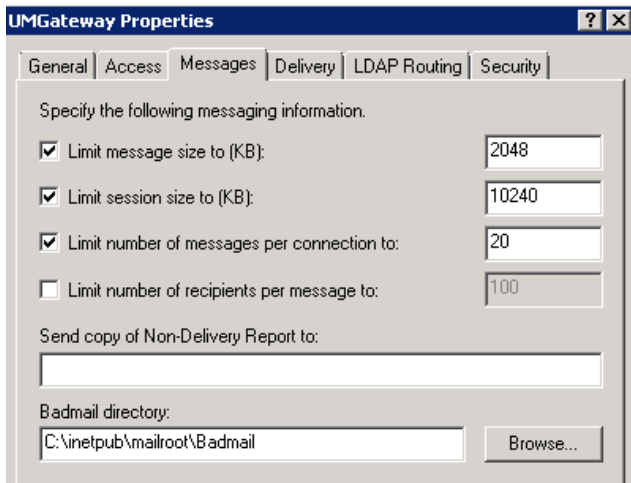


Properties -> Enable IIS LOG, select all properties and select place for the logfiles
(Do not use the default place stored in Windows directory -> set to drive D:\logfile or other place)



Configuration of [Messages](#) and [Delivery](#) definitions

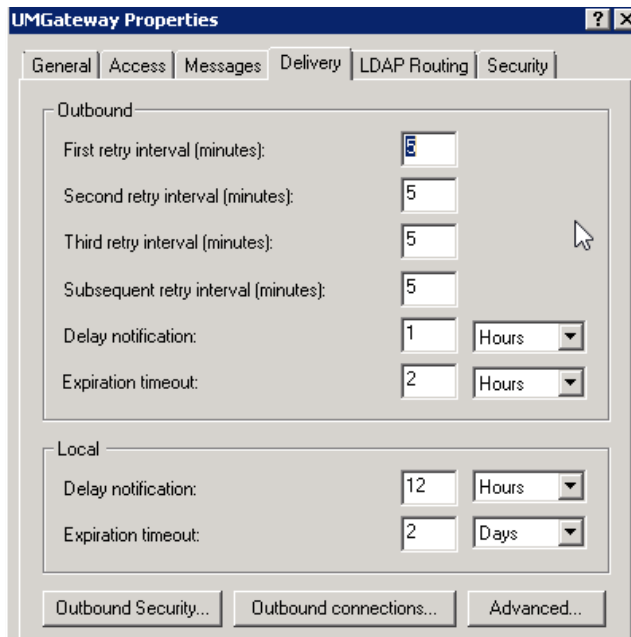
The following definitions are based on best practice but you can change as you like.



The screenshot shows the 'Messages' tab of the 'UMGateway Properties' dialog box. It contains several configuration options for messaging:

- Limit message size to (KB): 2048
- Limit session size to (KB): 10240
- Limit number of messages per connection to: 20
- Limit number of recipients per message to: 100

Below these options is a text field for 'Send copy of Non-Delivery Report to:' which is currently empty. At the bottom, there is a 'Badmail directory:' field with the path 'C:\inetpub\mailroot\Badmail' and a 'Browse...' button.



The screenshot shows the 'Delivery' tab of the 'UMGateway Properties' dialog box. It is divided into two sections: 'Outbound' and 'Local'.

Outbound:

- First retry interval (minutes): 5
- Second retry interval (minutes): 5
- Third retry interval (minutes): 5
- Subsequent retry interval (minutes): 5
- Delay notification: 1 Hours
- Expiration timeout: 2 Hours

Local:

- Delay notification: 12 Hours
- Expiration timeout: 2 Days

At the bottom of the dialog, there are three buttons: 'Outbound Security...', 'Outbound connections...', and 'Advanced...'.

Mail Routing Configuration

Your mailservers and other applications can send directly to the gateway (standard port 25).

Routing to umgateway smtp service can be done for example with exchange smtp connector or multiple mx records pointing the subdomain (sms.youddomain.int) to all the gateway servers (load balancing).

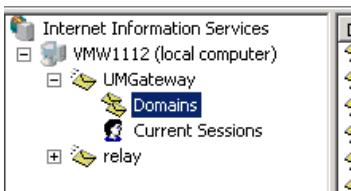
The following list can be uses as an example of your configuration.

Domain Configuration

The company internal mail domain is:	@company-mail.local
SMS mails are routed to the gateway as:	<number>@ sms .company-mail.local
Priorized SMS mails are routed to the gateway as:	<number>@ prio .company-mail.local
For SMS Reply function:	<number>@ smsre .company-mail.local

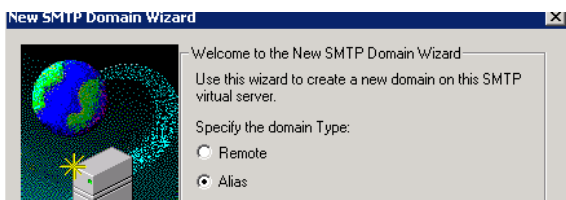
SMTP Service Domain Configuration

Select the Domains node in the SMTP Service Configuration

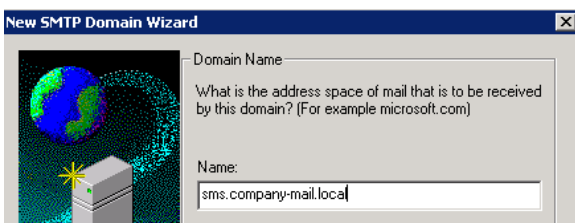


➔ Menu -> Action -> New -> Domain...

Domain Type = Alias



Enter the process mail domain



Repeat for **prio**.company-mail.local, **smsre**.company-mail.local ...

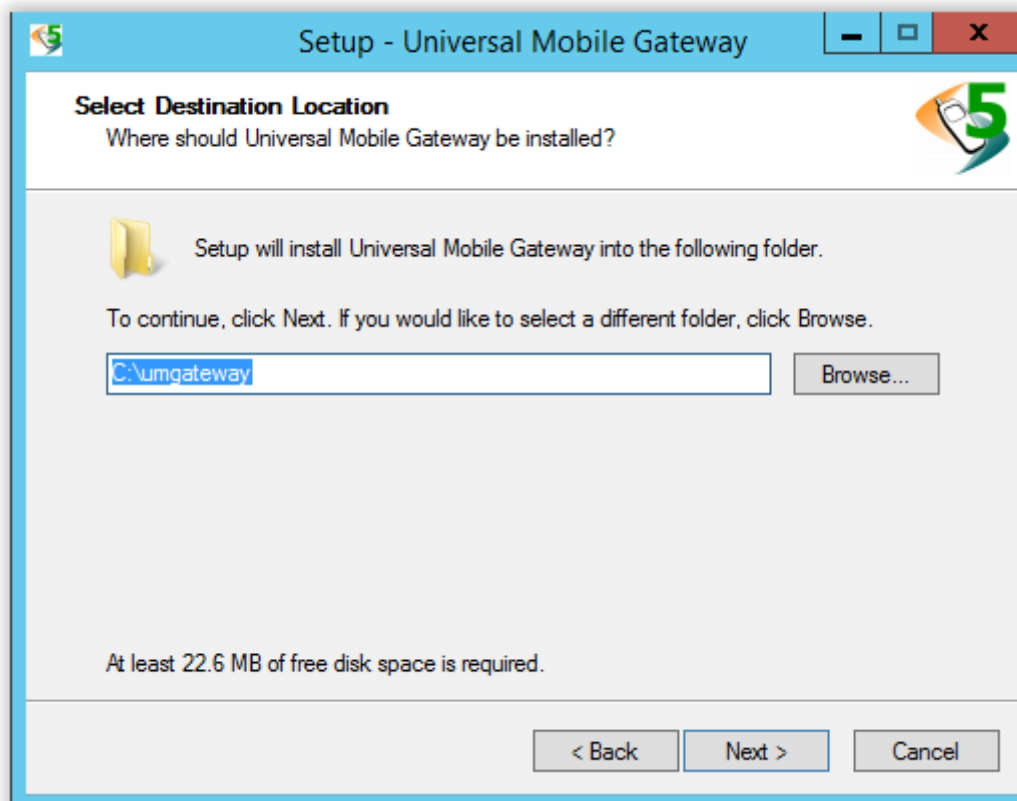
Installation UMGateway

Important: The software must be installed on a root position (C:\ or D:\)

We recommend to create a second virtual or logical disk containing the product (D:\)

In this document examples we show how to install on drive C:\ and Components on D:\

- ➔ Do NOT install UMGateway and 3.Party tools in the Programm Files Folder
- ➔ Data/Work directory can be located at any place



- Simply following the dialogs and click next
- On the last page – **uncheck**: run config

After finishing installation:

- Browse with windows explorer to the location you install the software (c:\umgateway\work) and manually create apimon directory.
Result: c:\umgateway\work\apimon

Installation Components

Java installation

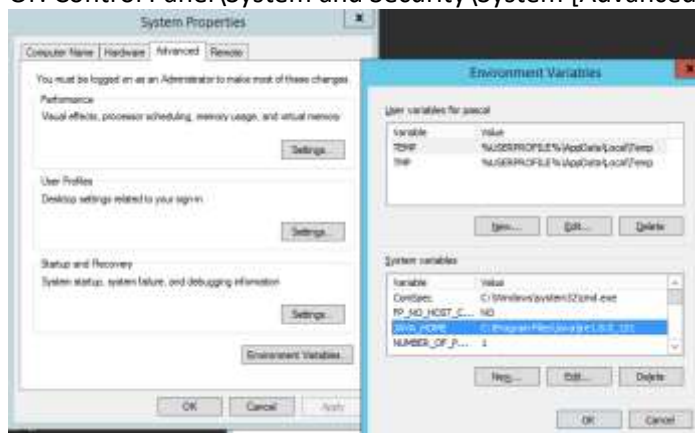
Install most current JAVA JRE 8 64 BIT (jre-8u151-windows-x64)

Default location: C:\Program Files\Java\jdk1.8.0_151

Set Windows Environment Variables

Start: Search -> environment -> Edit the system environment variables)

Or: Control Panel\System and Security\System [Advanced System Settings]



[Environment Variables...] -> System variables

[New ...]

Variable name: **JAVA_HOME**

Variable value: C:\Program Files\Java\jdk1.8.0_151

(or depending on you installed version)

Install Elastic Search

Current 1.x Version: elasticsearch-1.7.6.zip

- Open ZIP file
- Copy content of **elasticsearch-1.7.6 subfolder** to D:\elasticsearch
- You should now have:
 - D:\ElasticSearch\lib\
 - D:\ElasticSearch\bin\
 - D:\ElasticSearch\config\

Setup as windows service

- Open command/console window (cmd.exe) as **Administrator**
 - cd D:\elasticsearch\bin\
 - service **install**
- This create the service: elasticsearch-service-x64

Service + Memory Configuration

- run CMD as Admin
- cd D:\elasticsearch\bin\
 - service **manager**
- General Tab: Set Startup Type: Automatic
- Java Tab: Initial Memory: 1024, Maximum Memory: 2048 (or max ½ Total Free)

DB Cluster Configuration – With ElasticSearch

- Windows explorer -> D:\elasticsearch\config\
 - Rename (or backup) elasticsearch.yml
 - Replace elasticsearch.yml with version from component folder
 - Change the following entries to real values
 - node.name: "YourNodeName" (without special characters)
 - network.publish_host: 10.0.0.101 (routed server ip)
 - discovery.zen.ping.unicast.hosts: ["10.0.0.101","10.0.0.102"]
(List of all the server ip's)

Cluster Connectivity

- If windows firewall is activated open the ports to interconnect the servers

Windows Firewall Rules

- Allow Inbound Rule for TCP Port 9200-9209 and TCP+UDP 9300-9309
- Allow Inbound Rule for TCP Port 8000, 80, 443, 25, 2525
 - Both rules allow for subnet of the servers (or each other node)

Test ElasticSearch

- Start the ElasticSearch Windows Service
- Look at the logfiles in D:\elasticsearch\logs
 - umg_cluster.log
 - elasticsearch-service-x64....log
 - if you do not have good windows tail tool -> baretail.exe
(UMGateway Setup\3.party Tools)
- run cmd.exe
- curl -v 127.0.0.1:9200/
 - you should get a json report with status: 200 ...
 - if you do not have curl -> UMGateway Setup\3.party Tools

Operation: Install ElasticSearch Monitoring Plugins

Copy the modules to d:\temp (or similar)

- elasticsearch-head-1.x.zip
- elasticsearch-HQ-1.0.0.zip
- elasticsearch-kopf-1.0.zip

Run CMD.exe

- cd D:\ElasticSearch\bin
- plugin --install mobz/elasticsearch-head -u file:/d:/temp/elasticsearch-head-1.x.zip
- plugin --install royrusso/elasticsearch-HQ -u file:/d:/temp/elasticsearch-HQ-1.0.0.zip
- plugin --install Imenezes/elasticsearch-kopf -u file:/d:/temp/elasticsearch-kopf-1.0.zip

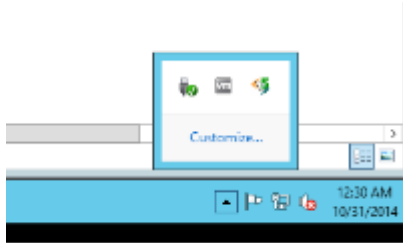
Open Plugins

http://localhost:9200/_plugin/HQ/
http://localhost:9200/_plugin/head/
http://localhost:9200/_plugin/kopf/

(System Overview)
(Cluster Information)
(Manage Cluster, Alias, Warmers, Indexes)

Installation UMGateway Update

- Quit Application (right mouse on the tray icon app)



- Stop all services (but these should be stopped by a new installation)

Sources: Dropbox\UMGateway Updates\V7

- Open the Update ZIP (UMG_Binaries_Update_V7.16.1.zip)
 - Check if file is locked from download -> Properties: [] Blocked -> Unblock
- Copy the content directly to the c:\umgateway\bin directory
- Replace all existing files

UMGateway Configuration / Migration

- Copy any configuration files (c:\umgateway\config) from the old system to the new system
- Start config.exe (c:\umgateway\bin) or over Start menu
- Set all the default settings as on the old system
- **Apply**
This create the required configuration, updates and folder structure so the service can run
- Look at the console -> Service Traces check the first 5 entries
- Start all services