

Quickinstallation

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Windows Preparation

Roles and Features

Service Manager -> Add Roles and Features

				Add R Remov	oles and Features ve Roles and Features ervers	
	Last installed	opdates	Never	Create	Server Group	
	Windows Upd Last checked I	late for updates	Not configured Never	Server	Manager Properties	
CP, 1Pv6 enabled	Windows Erro Customer Exp IE Enhanced 5 Time zone Product ID	r Reporting erience Improvement Program ecurity Configuration	Off Not participating On (UTC +01:00) Amster 00252-00108-43197	ndam, Ber 7-AA193 (lin, Bern, Rome, Stockt activated)	
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		Windows Feedback Forwarder Windows Identify Foundation 3.5 Windows Identify Foundation 3.5 Windows Internal Database Mill Windows Onuschall /7 of C installarth V	



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)

Enable logging	
Active log format:	
W3C Extended Log File Format	Properties

Configuration of <u>Messages</u> and <u>Delivery</u> definitions

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

UMGateway Properties	? ×
General Access Messages Delivery LDAP Routing	Security
Specify the following messaging information.	
🔽 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
Send copy of Non-Delivery Report to:	
Badmail directory:	
C:\inetpub\mailroot\Badmail	Browse

UMGateway Properties	? >
General Access Messages Delive	ע LDAP Routing Security
Cutbound	
First retry interval (minutes):	E
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
Outbound Security Outbound	connections

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: SMS mails are routed to the gateway as: Priorized SMS mails are routed to the gateway as:

For SMS Reply function:

@company-mail.local
<number>@sms.company-mail.local
<number>@prio.company-mail.local

<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

Setup - Universal Mobile Gatewa	ay 🗕 🗆 🗙
Select Destination Location Where should Universal Mobile Gateway be installed?	\$
Setup will install Universal Mobile Gateway into the follow	ving folder.
To continue, click Next. If you would like to select a different folder	er, click Browse.
C:\umgateway	Browse
At least 22.6 MB of free disk space is required.	
< Back	Next > Cancel

- 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]

System Properties	2	
Cosputer Name Hardware Alivanced Remote		
You must be logged an as an Administrator to make must of these changes		Environment Variables
Parlamance Vaual effects, processor scheduling, memory usage, and artical memory	User variables for	- pascal
Tedrup.	twate 1597 110	Videe NU2DIROP125V/coCarls/coal/Temp NU2DIROP125V/coCarls/coal/Temp
Uner Frahlen Desktup setangs related to your agrim		
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Tysten status, system falue, ord dobugging information Settings	Contines Contines IP_NO_HOST_S	Value A Critivalians/ovstent/2/unit-exe
Encourant Values	NUMBER OF P	
		Heg Edd Dejete
OK Geost Astr		OR Canon

[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
 - o 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/
 - $\circ~$ 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