GEUTEBRÜCK

G-SIM

Software Version 9.1.2

Release Notes

G-SIM 9.1.2

Software	Type	Short Description	Detailed Description
New Feature	ManCon, OpCon	G-SIM Global	Please see * for detailed information.
Improvement	ManCon	New ManCon	Please see ** for detailed information.
New Feature	OpCon, Server	Audit log	Now the audit log provides the possibility to see which user pressed the custom button to a specific media channel.
New Feature	OpCon	Forensic Search Application	In order to clear your user specific cache in the forensic search application, you recieve an action on user login / logout. A user is also able to see when the configuration of allowed cameras has changed with username and OpCon Console Number and the list of the cameras (together with their failover partner).
New Feature	Installer	Installer: Selectable Intel driver installation	If the Windows version is at least 1709 (checked at installer startup), then the driver installation is unchecked by default, otherwise checked. (Windows version 1709 corresponds to winver info 10.0.16299) If the user wants to install the drivers (manually had to check the component), a warning will be displayed as soon as the user continues with the installation step. The changes affect the G-SIM Installer and the OpCon Standalone Installer.
New Feature	OpCon	Viewer Numbers	The Button "Show Cameras" on the sites card list now supports the usage of templates bigger than a 4x4 matrix.
New Feature	ManCon	Windows application eventlog	You receive a notification in the windows application event log when the agent cannot connect to the G-SIM Server due to an missconfiguration in password.
New Feature	OpCon	New OpCon	A new created OpCon has by default no privileges.
New Feature	OpCon	Filtering for camera check	You are now able to filter for cameras in the CCS dialog that need to be checked (defined by interval or marked that they need to be checked manually).
New Feature	ManCon	Manual camera check	It is now possible to configure an interval for a manual check of the cameras which are observed by the CCS. When the operator opens the CCS dialog in OpCon, a filter shows automatically the cameras which must be checked because the interval is due.
New Feature	ManCon, Server	Public camera tours available in G-SIM ManCon	In the ManCon, you now have access to the list of (public) camera tours which were created in the OpCon, that can be can used as ressource e.g. in the populated layouts.
New Feature	OpCon, Server	Pelco Integration	The Pelco integration has been removed from G-SIM.
New Feature	Installer	Select installation folder	You are able to select an installation folder and the volume for the installation instead of always using the default path.
New Feature	OpCon	CCS: Create report of cameras	You can now create a report of the cameras of the CCS results with thumbnails.
New Feature	OpCon	Export alarm action data	A new checkbox was added to the list of checkboxes on the Reporting UI (Checked by default). This option adds a child view to all lines in the result grid (An arrow appears in the most left column, clicking it will expand the alarm action detail.)With the Alarm Action Details checked, printing a grid will print all the alarm actions, AS WELL AS any comments entered.
New Feature	ManCon	IP base filter	You can determine from which device the trap was sent and trigger different alarm instances with the help of a filter on the SNMP strings for a specific ip address.
New Feature	OpCon, Server	G-SIM audit	There is now an entry when OpCon layout changes.
Bugfix	ManCon, Server	Cluster: Login ManCon to secondary server	When the G-SIM Server service was stopped during a ManCon was logged in and the G-SIM System contains a cluster, the login to the second G-SIM Server was not possible due to a too long heartbeat communication. This was optimized so that the user can now login again faster.
Bugfix	OpCon	Export dialog of cutlist	The textbox for the export dialog for the cutlist now correctly displayed in French.
Improvement	OpCon	OpCon: Playmode area	The playmode area was adjusted to the viewer size.
Bugfix	OpCon	Filtering of audit log	The filtering for the actions of different users in the audit log has been fixed.
Bugfix	OpCon	Filter for camera / camera group	Fix for the process data shown for camera / camera group, so that only the selected camera / camera group is shown after filtering.
Improvement	Server	Login	Improvement for the stability of login and logout-function.
Improvement	OpCon	CCS: .mht export	Send .mht via e-mail option is removed.
Bugfix	OpCon	GeViSoft Alarms in OpCon	Fix for GeViSoft-Alarms that were triggered from a map.
Improvement	OpCon	Connection limit for TC viewer	The viewer delivery on a recon does has been improved so that three viewers are working correctly.
Bugfix	OpCon	Camera and in camera group restrictions	Fix for playback beyond set time limit in camera and camera group access restriction.
Improvement	ManCon, OpCon	Alarm Management	Enforce playmode live on replay is enabled.
Improvement	ManCon	Client setup	The slider to activate the restrictions or not is removed (it was previously a license which is no longer present). Restrictions are set to true so that it is always enabled.
Bugfix	ManCon, OpCon	Alarm Presentation mode	Fix for displaying an alarm that was triggered with presentation mode in a viewer group and not in tab mode.
Bugfix	OpCon	Bookmarks	Bookmarks are now correctly displayed in bookmark list.
Bugfix	OpCon	Filtering for camera group	When reopening the filter window that the filter selection was partially reset. This is fixed now.
Improvement	OpCon	NVR-Failover	Improvement of NVR-Failover for big systems
Improvement	OpCon	Motion Search	Motion search notification sound in OpCon is now played with every successful search with button prev/next motion.
Bugfix	OpCon	Process Data Filter	A bug was fixed that caused a delay after an exception was trown.
Improvement	ManCon	"ASCII Action" on maps	You are now able to able to add a map item that can send actions to several devices with one click.
Improvement	Common	Process Data Search	The process data search on more than one server was improved. **
Bugfix	OpCon	Filtering audit log	A bug is fixed so that the filtering by site group in the audit log is working now.
Bugfix	OpCon	Filtering audit log	A bug is fixed so that the filtering by camera group in the audit log is working now.

G-SIM 9.1.2

Improvement	OpCon	Filtering in tasks menu	The use of checkboxes (e.g. user, user group, status filter) for filtering was improved.
Bugfix	ReCon	ReCon login process	We fixed some issues in login process, so that the login process is now working smoothly.
Bugfix	OpCon	Export for console	Bug is fixed so that privilege "Allow High Resolution Channel Export" does now work for consoles.
Improvement	OpCon	Synced viewer	Stabilisation of viewers, while the viewers are in play backward mode

G-SIM 9.1.2

***G-SIM Global**

With G-SIM version 9 the G-SIM Global functionality to connect multiple G-SIM Server to a global network is available in the general product package. The synchronization mechanism is completly new and based on the KAFKA communication framework. G-SIM Global in the v9 release supports up to 30 sites.

G-SIM Global offers the following features:

- Synchronization of the setup data to offer access to all ressources
- Automatic switchover to a G-SIM Server when the local servers are offline
- Support for local G-SIM Cluster
- Setup synchronization is done on a time based shedule, the interval is configurable.
- Access live streaming and review database recording on all sites.
- Access all ressources such as maps, cameras, tours, alarms from the whole global network
- Configure user permissions & restrictions to allow exact
- Export Video data from any site which is part of G-SIM Global
- Manage & Access alarms from all connected servers. It is possible to configure if an alarm should be broadcasted into the global network or not.
- Request audit data from all connected servers. The search algorithm works on a asynchron search request so that the results are accessible as soon as the first server responded. The data is not synchronized but fetched on-demand when a search request is send.
- Search for processdata on all connected servers. The search algorithm works on a asynchron search request so that the results are accessible as soon as the first server responded. The data is not synchronized but fetched on-demand when a search request is send.

Please note that the main maps are not synced. During installation the Config-folder need to be edited manually (see installation instructions).

The amount of connected clients is only tested with 30 OpCons, the hardware requirements for the G-SIM Server depends on the amount of connected OpCon's and may differ from a G-SIM Installation without the use of the Global functionality.
Please note that the software requires an G-SIM option.

**** New ManCon**

With G-SIM 9 Geutebrück introduces a completly new Management Console to set up the G-SIM installation. The new ManCon is completely restructured and equipped with state-of-the-art, future-proof technology, with the focus on the user experience.

The main changes are:

- Support for drag and drop as well as various shortcuts in the ManCon is available (Shortcut codes see below).
- ManCon can hold multiple active server connections at the same time.
- Administrator can easily switch between active server connections.
- ManCon and G-SIM Server now supports the simultaneously login of multiple administrators.
- A setup change detection and conflict-resolve mechanism is now available.
- Setup validation will check for missing configuration and advise the administrator where setup errors are located.
- More space for configuration and less control bars.
- Improved performance when working with larger setups.
- Faster loading of large setups
- Configuration of G-SIM Agent was moved to general server Setup for easier and more transparent configuration
- Alarm configuration is now much easier and transparent. Alarm instances are now configured within the alarm type configuration and assign to a site and agent
- Multiple configuration path removed such as configuration wizards
- An Undo / Redo Stack was implemented which will offer to rollback all changes made since last time setup was saved.
- An notification area is implemented which will inform the logged-in user about changes, warnings and errors during working with the ManCon

Shortcuts:

The following shortcuts are available in the ManCon

CTRL + D = collapse the main navigation bar
CTRL + E = Expand the main navigation bar
CTRL + C = Clone the current selected item
CTRL + V = Add new item
CTRL + X = Delete selected item

Upgrading from G-SIM version 7/8

An update from an existing installation can simply be executed by using the G-SIM Installer. The data structure of the database was not changed on the ManCon, therefore an existing setup will be available without interaction.
Please note that importing an old setup to the new ManCon might need some re-adjustment because the new ManCon will check mandatory items which was not done in old ManCon. The setup validator will help navigating to the invalid configurations.

GEUTEBRÜCK

G-SIM 9.1 System Requirements

Please note:
We do not currently specify classes or similar that can be used as a guide for larger projects.
For larger projects we need to know the general conditions under which the system is operated in order to be able to make recommendations / specifications.
In principle, we require a server platform that is at least equivalent to the G-Scope 8000+ (Intel Xeon E3-1275, 3.4 GHz).

Server

G-SIM (UP TO 15 CLIENTS)

Free hard disk space	Min. 80 GB
RAM	Min. 16 GB
CPU recommendation	Intel Xeon E3-1275
Network interface	Min. 1Gbit/s
Operating system	Windows Server 2016 und 2019
Microsoft SQL Server	Version 2014 (Microsoft SQL Server Express supports 1 physical processor, 1 GB memory and 10 GB storage) The express version of the SQL server is used by default. When using the Microsoft SQL Server in the Standard Edition,
Microsoft .Net Version	Min. 4.7.2

These values are a recommendation under the condition that no other third-party services are running on this hardware.

G-SIM (UP TO 30 CLIENTS)

Free hard disk space	Min. 80 GB
RAM	Min. 16 GB
CPU recommendation	Intel Xeon E3-1275 (idealy higher, depending on the systemload)
Network interface	Min. 1Gbit/s
Operating system	Windows Server 2016 und 2019
Microsoft SQL Server	Version 2014 (Microsoft SQL Server Express supports 1 physical processor, 1 GB memory and 10 GB storage) The express version of the SQL server is used by default. When using the Microsoft SQL Server in the Standard Edition,
Microsoft .Net Version	Min. 4.7.2

These values are a recommendation under the condition that no other third-party services are running on this hardware.

GEUTEBRÜCK

G-SIM 9.1 System Requirements

Cient

G-SIM CLIENT

Free hard disk space	Min. 80 GB
RAM	Min. 8 GB (free 6 GB)
CPU recommendation	7th Generation Intel Core i5 (min. 2,4 GHz)
Network interface	Min. 1Gbit/s
Operating system	Windows 10
Microsoft .Net Version	Min. 4.7.2

Hardware recommendation

We recommend the following CPU and Intel graphic drivers. We cannot guarantee functionality and performance without the use of recommended drivers. GPU drivers are like any software, each new release can introduce performance and stability issues. If a problem appears at one point, we recommend to try to use a tested version.

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version	Graphic Driver Version
4th generation Intel® Core™ i3, i5, i7 Processors	Haswell	Core i3-4330 Processor 3.5Ghz Core i5-4570S Processor 2.9Ghz Core i7-4770S Processor 3.1GHz	Intel® HD Graphics 4600	15.36.28.4332 (Win 8.1)	20.19.15.4377 (Win 10 1607)
6th generation Intel® Core™ i3, i5, i7 Processors	Skylake	Core i3- 6100TE Processor 2.7Ghz Core i5- 6500 Processor 3.2Ghz Core i7- 6700 Processor 3.4Ghz	Intel® HD Graphics 530	21.20.16.4639 (Win 8.1)	
7th Generation Intel® Core™ i3, i5, i7 Processors	Kaby Lake	Core i3- 7100TE Processor 3.9Ghz Core i5- 7500 Processor 3.4Ghz Core i7- 7700 Processor 3.6Ghz	Intel® HD Graphics 630	21.20.16.4678 (Win 10 1607)	26.20.100.7263 (Win 10 1809, Legacy) 26.20.100.7584 (Win 10 1809, DCH)
8th Generation Intel® Core™ i3, i5, i7 Processors	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630		25.20.100.6519 (Win 10 1809)
Intel® Celeron® Processor J Series	Gemini Lake	Intel Celeron J4105 2.5 Ghz	Intel® UHD Graphics 600	25.20.100.6582 (Win 10 1607)	
Intel® Xeon® Processor E3 v6 Family	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	21.20.16.4678 (Win Serv 2016)	

These drivers are not necessarily part of the G-Core installer. You may find an updated list in our Knowledge Base: https://support.geutebrueck.com/de/search/detail/intel-gpu-driver-recommendation.html

GEUTEBRÜCK

Installation G-SIM Global

Bast, Christoph
DATE: 05.05.2020

Table of Contents

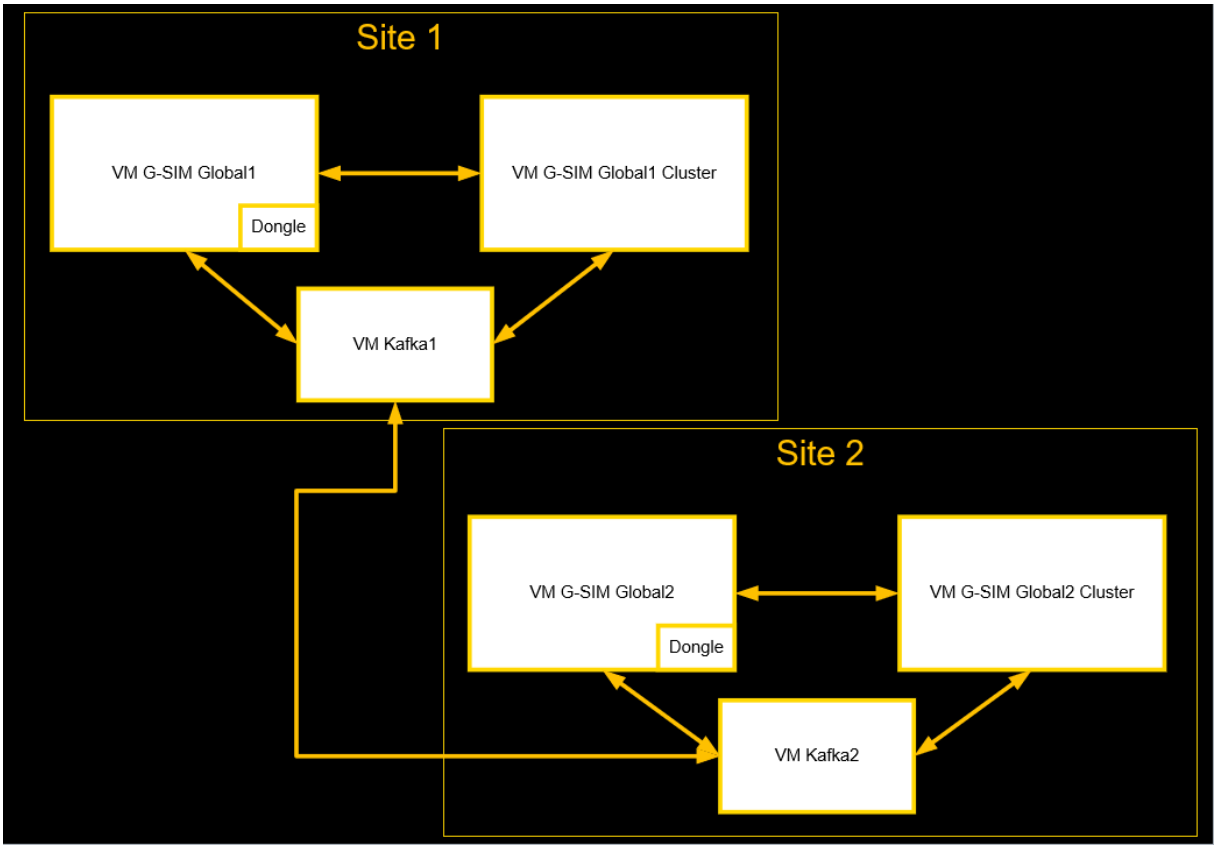
Version history

Version Number	Revision Date	Revision description	Reviser
1.0		• Initial version	Christoph Bast
1.1	19.05.2020	• Changed Introduction • Changed VM login part	Philipp Mueller
1.2	20.05.2020	• Changed VM login part	Christoph Bast
1.3	26.05.2020	• Revised	Philipp Mueller
1.4	04.06.2020	• Changed ManCon Global	Christoph Bast
1.5	10.06.2020	• Review	Rudi Antoni
1.6	22.06.2020	Changed Add **remote** servers	Christoph Bast
1.7	17.07.2020	Corrected a broken link, added supported hypervisors.	Philipp Müller
1.8	29.07.2020	Update information	Christoph Bast
1.*9*	24.08.2020	Add Update information	Christoph Bast

Introduction

This document describes the installation overview from the product GSIM Global. GSIM Global allows a client to combine up systems to a global network, from which all data of all G-SIM systems is accessible and synchronized. GSS will manage the synchronization between the G-SIM servers which are enrolled into the system.

Please note that the following steps have to be done on each G-SIM Server which will be part of G-SIM Global.



Virtual Machine

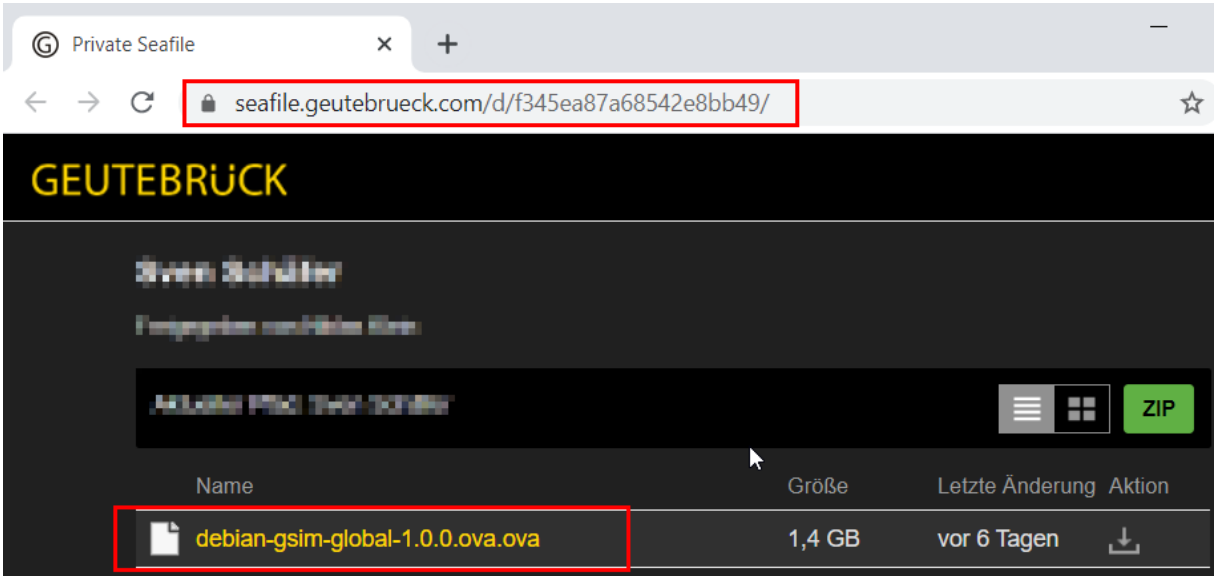
Notice!

The G-SIM Global Synchronization Service (GSS) uses the KAFKA messaging framework. This service is excluded into a virtual machine with an linux operating system. For each G-SIM Global server a virtual machine has to be installed on the host system. By default, the virtual machine will get the IP-Address from a DHCP server. The Cluster Server to be need one Kafka service for synchronization.

Download Kafka VHD

Download the Kafka service VHD from the Geutebrück seafile:

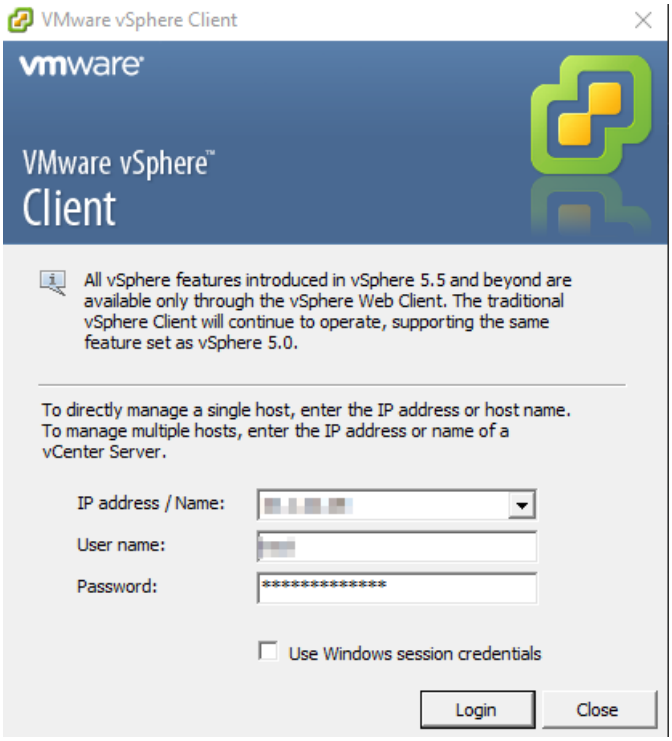
https://seafile.geutebrueck.com/d/f345ea87a68542e8bb49/



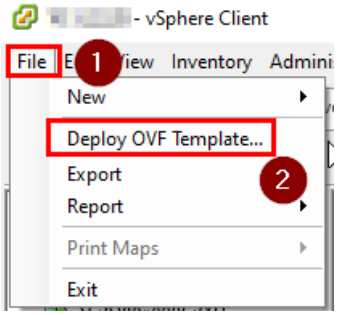
Please note, this virtual machine is available only in the OVA format. The OVA format is not supported by Microsoft Hyper-V and therefore Hyper-V cannot be used. Please use VmWare esx, Workstation or Player or Virtual Box from Oracle. The support for Hyper-V will be added later.

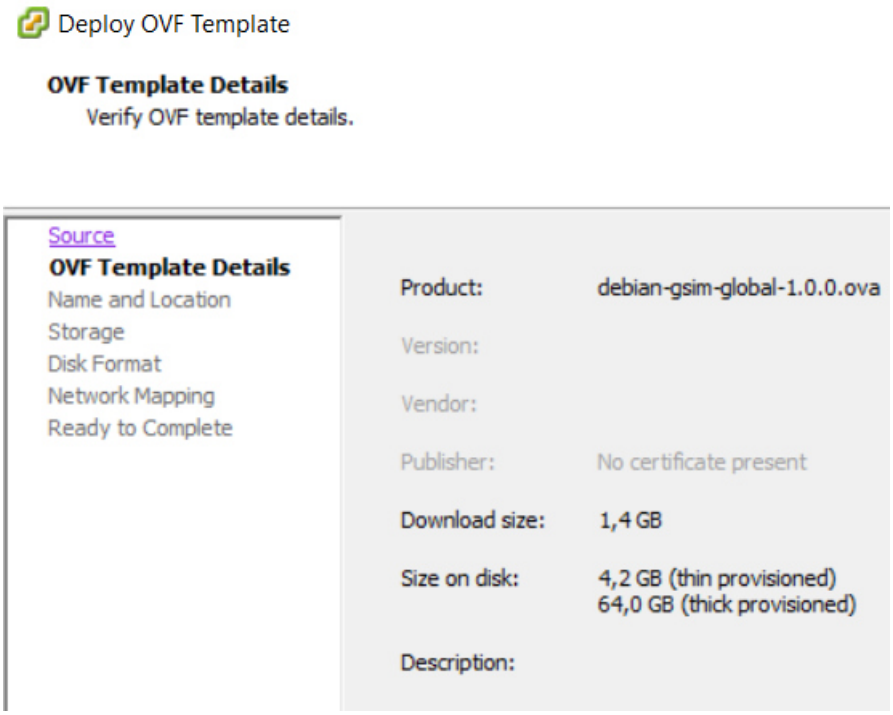
VMware Client

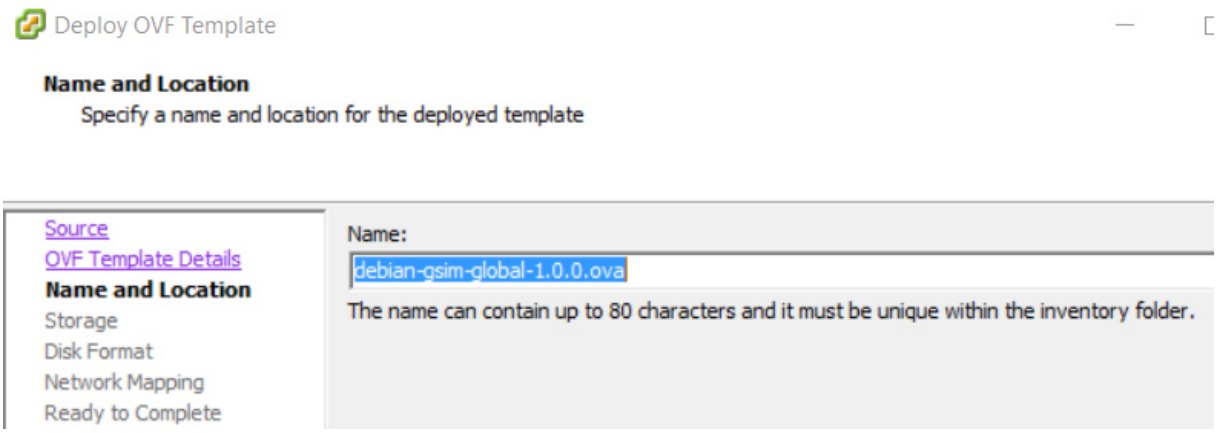
Start the Programm **VMware vSphere Client**

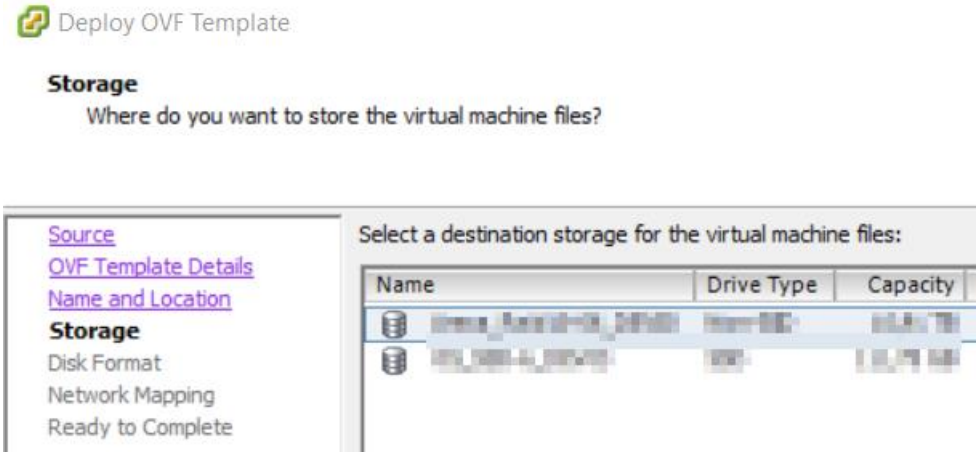


Open the **File > Deploy OVF Template** and load the Kafka service VHD




Deploy OVF Template
OVF Template Details
Verify OVF template details.
Source
OVF Template Details
Name and Location
Storage
Disk Format
Network Mapping
Ready to Complete
Product:
debian-gsim-global-1.0.0.ova
Version:
Vendor:
Publisher:
No certificate present
Download size:
1,4 GB
Size on disk:
4,2 GB (thin provisioned)
64,0 GB (thick provisioned)
Description:

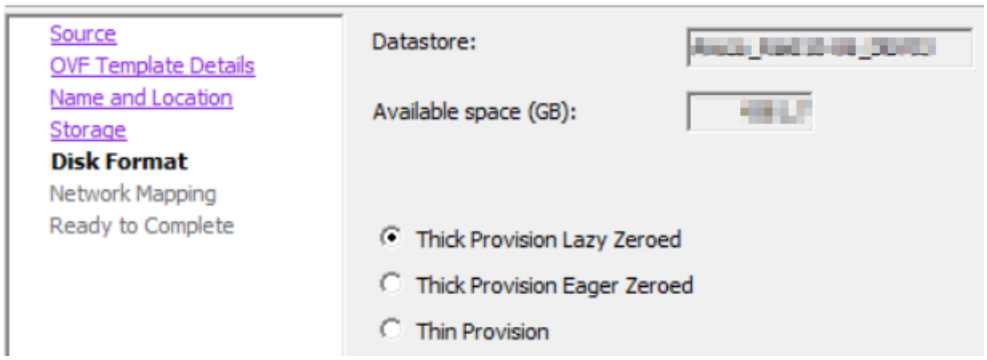

Deploy OVF Template
Name and Location
Specify a name and location for the deployed template
Source
OVF Template Details
Name and Location
Storage
Disk Format
Network Mapping
Ready to Complete
Name:
debian-gsim-global-1.0.0.ova
The name can contain up to 80 characters and it must be unique within the inventory folder.


Deploy OVF Template
Storage
Where do you want to store the virtual machine files?
Source
OVF Template Details
Name and Location
Storage
Disk Format
Network Mapping
Ready to Complete
Select a destination storage for the virtual machine files:
Name
Drive Type
Capacity

Deploy OVF Template

Disk Format

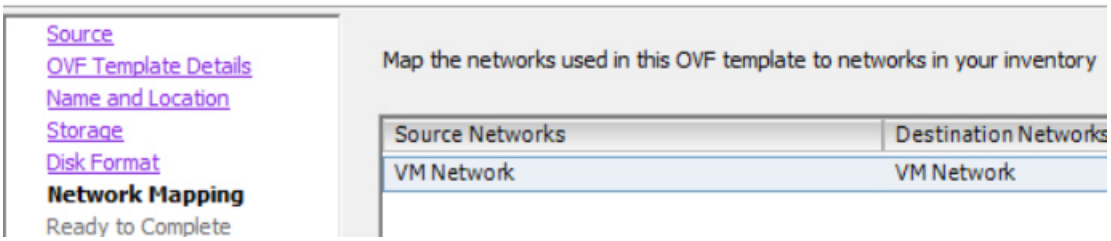
In which format do you want to store the virtual disks?



Deploy OVF Template

Network Mapping

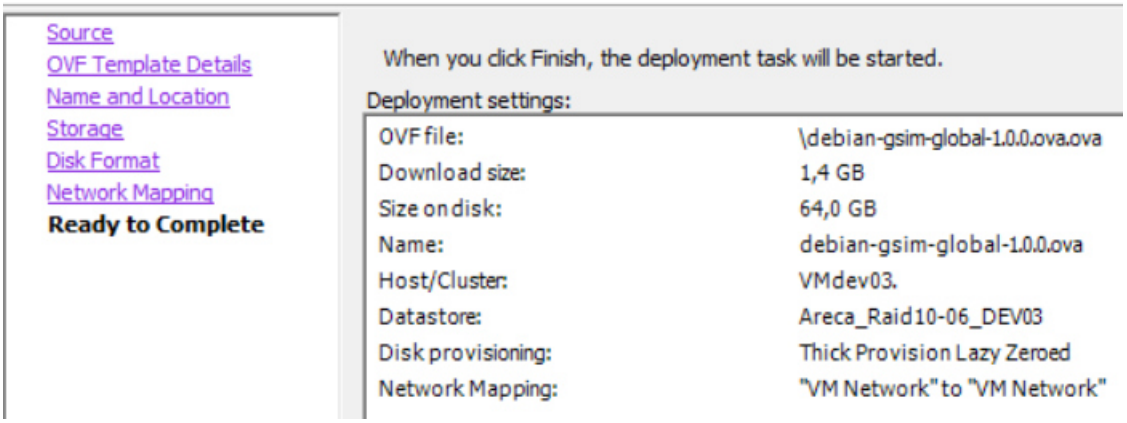
What networks should the deployed template use?



Deploy OVF Template

Ready to Complete

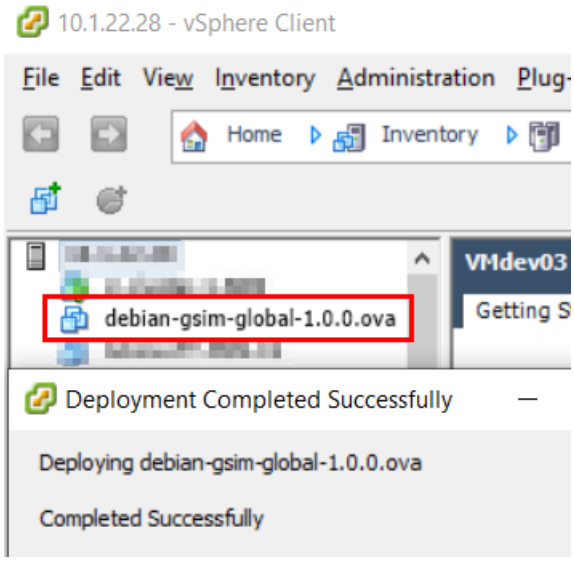
Are these the options you want to use?



Login Kafka VHD

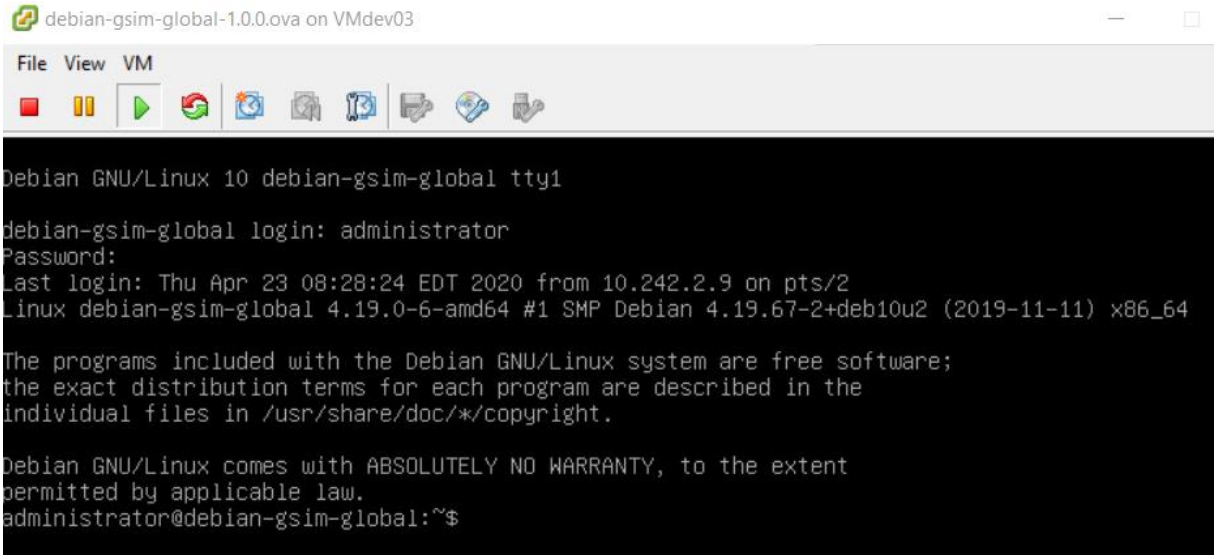
Note: **This part is optional and only needed for troubleshooting.**

Start the VM machine



Login: **administrator**

Password: **gsimglobal**

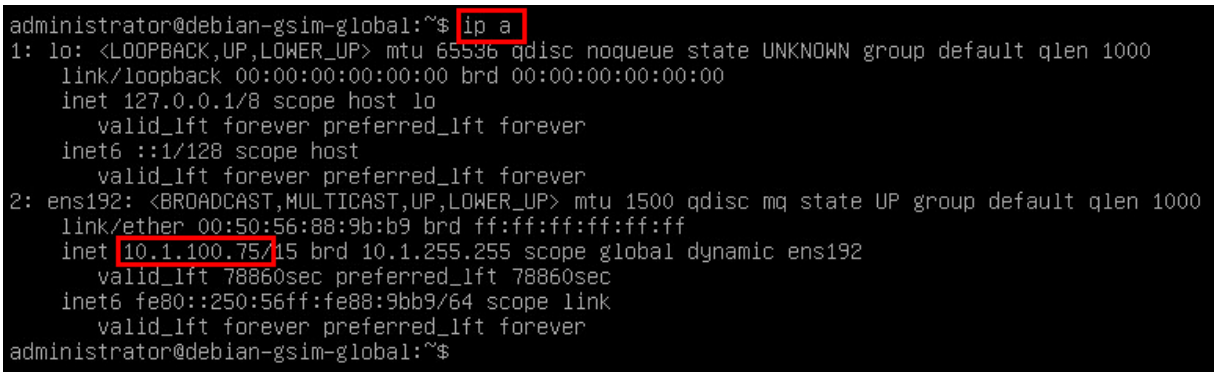


Commands

Check the Kafka IP address and use the following command:

ip a

e.g. 10.1.100.75



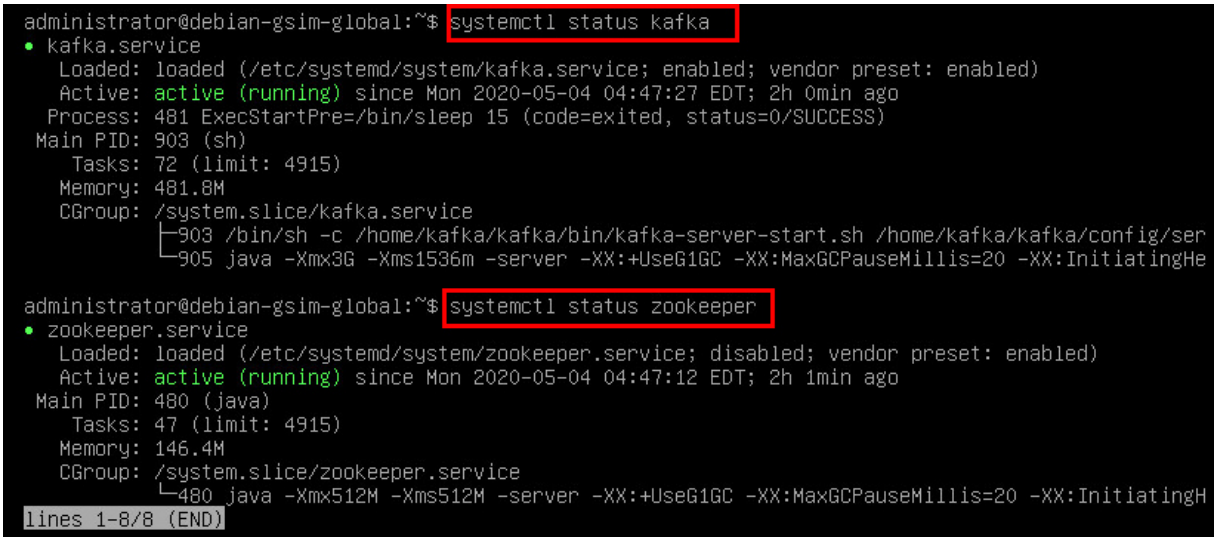
Notice! The virtual Machine is configured to use DHCP

Use the following commands for control the kafka and zookeeper service:

systemctl status <service>

systemctl status kafka

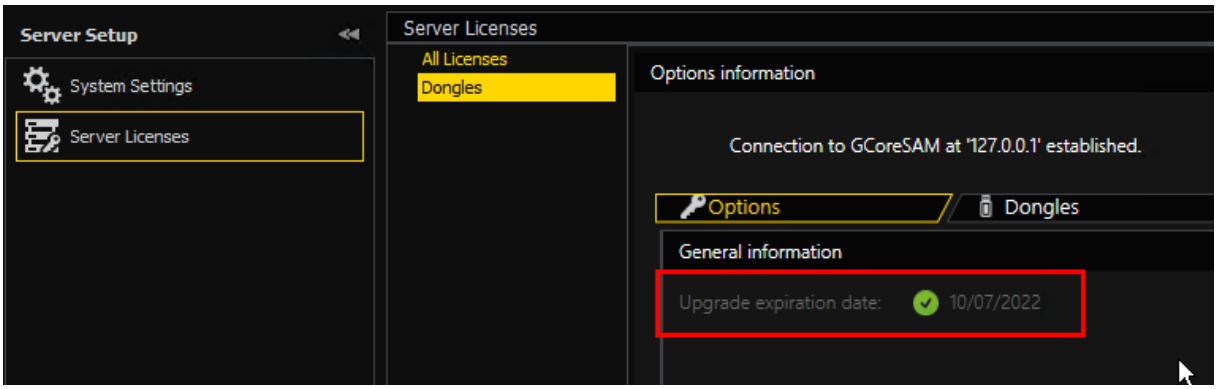
systemctl status zookeeper



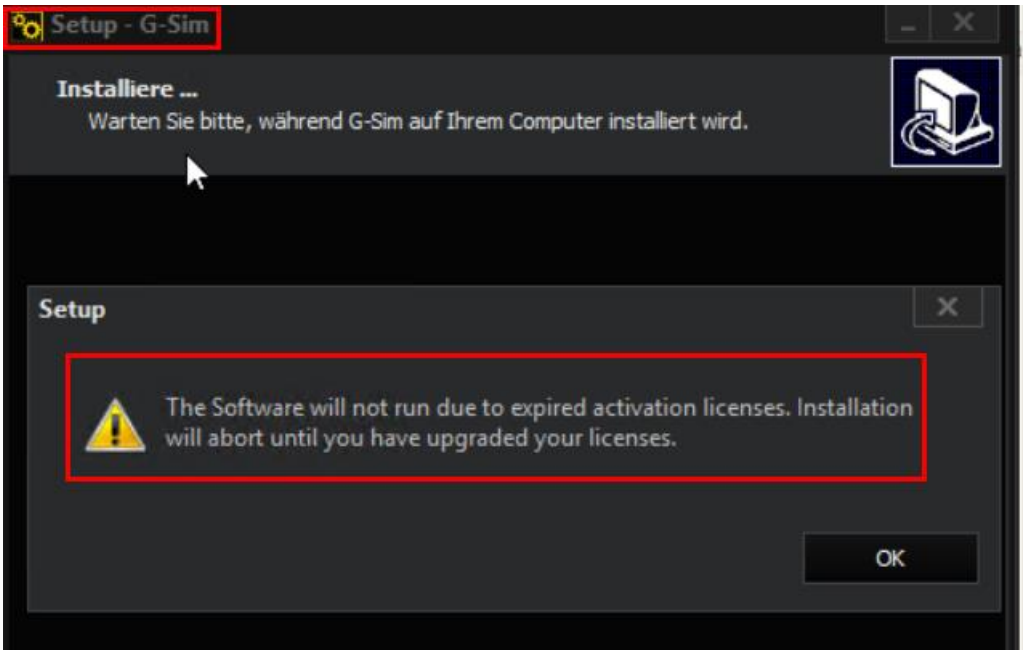
Update Information

1 Upgrade Licence

Check Upgrade licence in the ManCon -Server Licences – Upgrade expiration Date



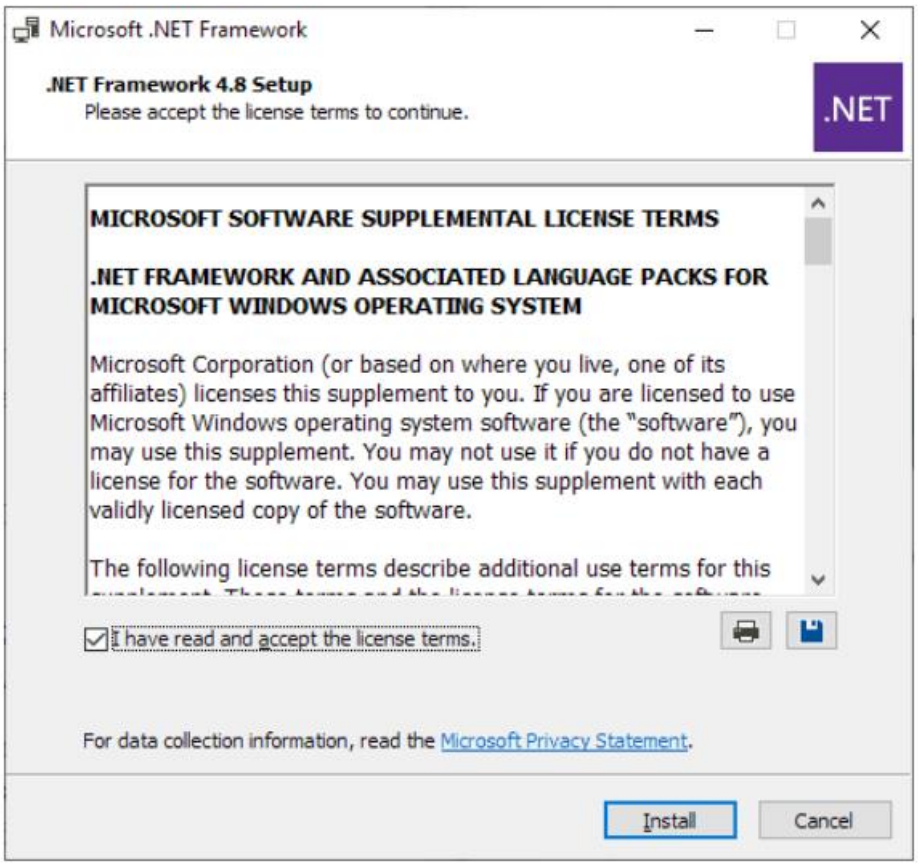
Upgrade licence is not valid, the GSIM Setup Software will be stopped



2 Install DotNet Framework 4.8

The GSIM Setup Software will be stopped when this Framework is not installed

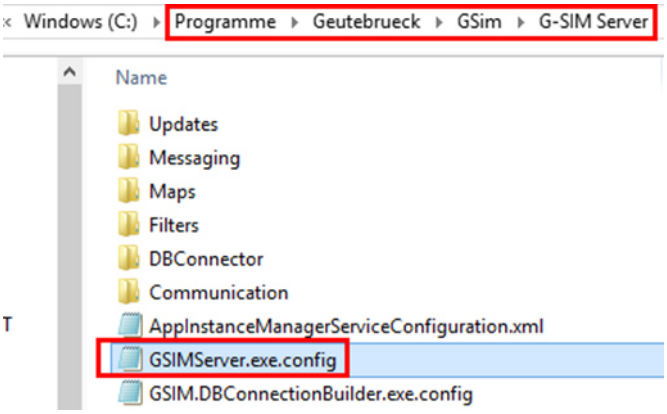
Microsoft .NET Framework 4.8 installers



3 Edit file GSimServer.exe.config

Open the following path: **C:\Program Files\Geutebrueck\GSim\G-SIM Server**

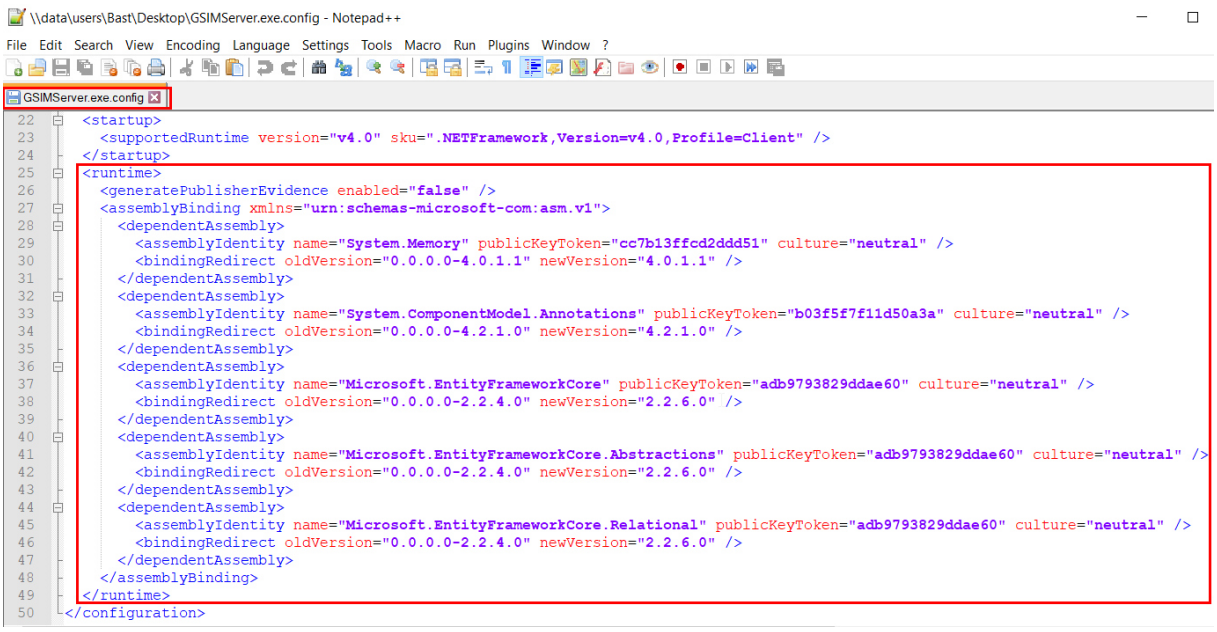
Select and edit the file: **GSimServer.exe.config**



Add manually the following parameters between within **<configuration>**and **</configuration>**

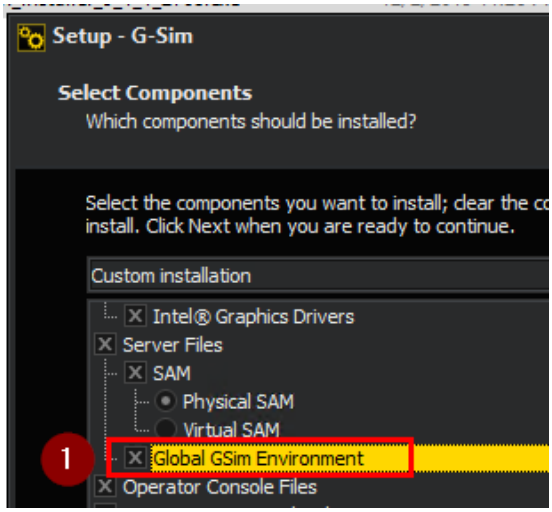
```
<runtime>
   <generatePublisherEvidence enabled="false" />
   <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
     <dependentAssembly>
      <assemblyIdentity name="System.Memory" publicKeyToken="cc7b13ffcd2ddd51" culture="neutral" />
      <bindingRedirect oldVersion="0.0.0.0-4.0.1.1" newVersion="4.0.1.1" />
     </dependentAssembly>
     <dependentAssembly>
      <assemblyIdentity name="System.ComponentModel.Annotations" publicKeyToken="b03f5f7f11d50a3a" culture="neutral" />
      <bindingRedirect oldVersion="0.0.0.0-4.2.1.0" newVersion="4.2.1.0" />
     </dependentAssembly>
     <dependentAssembly>
      <assemblyIdentity name="Microsoft.EntityFrameworkCore" publicKeyToken="adb9793829ddae60" culture="neutral" />
      <bindingRedirect oldVersion="0.0.0.0-2.2.4.0" newVersion="2.2.6.0" />
     </dependentAssembly>
     <dependentAssembly>
```

```
<assemblyIdentity name="Microsoft.EntityFrameworkCore.Abstractions" publicKeyToken="adb9793829ddae60" culture="neutral" />
<bindingRedirect oldVersion="0.0.0.0-2.2.4.0" newVersion="2.2.6.0" />
</dependentAssembly>
<dependentAssembly>
<assemblyIdentity name="Microsoft.EntityFrameworkCore.Relational" publicKeyToken="adb9793829ddae60" culture="neutral" />
<bindingRedirect oldVersion="0.0.0.0-2.2.4.0" newVersion="2.2.6.0" />
</dependentAssembly>
</assemblyBinding>
</runtime>
```



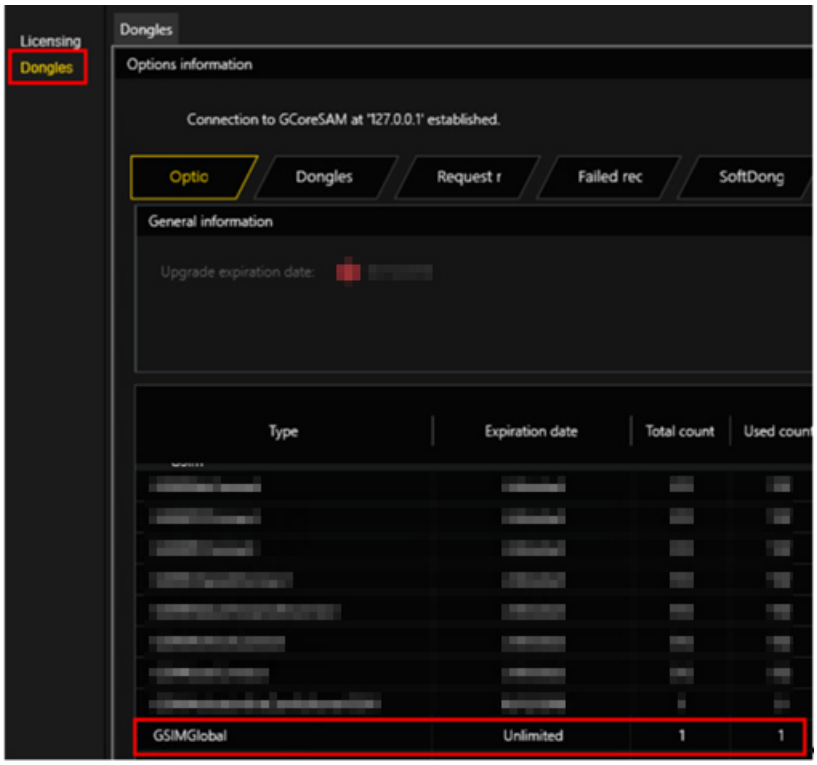
Installation G-SIM Software

Setup: select under server files G-SIM Global Environment



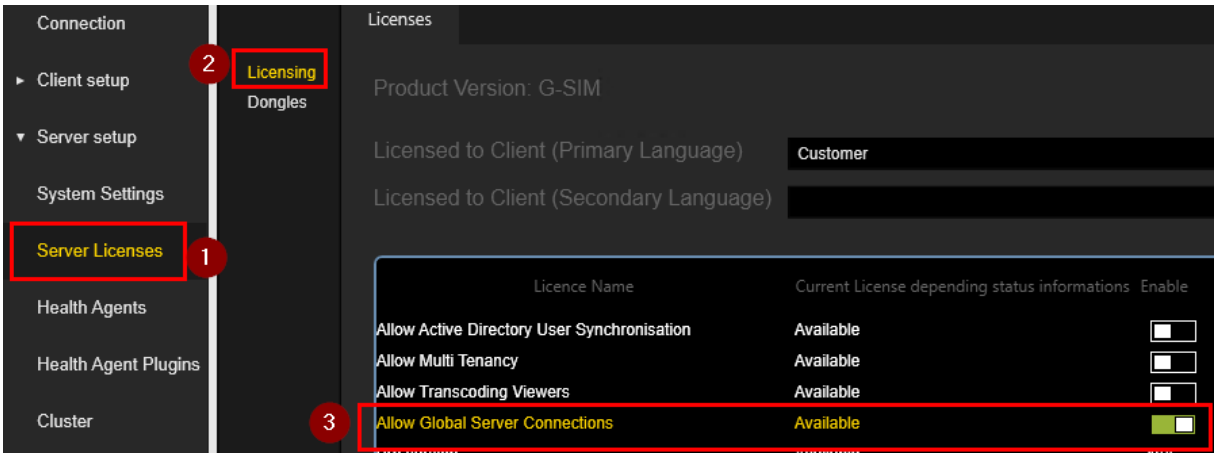
Global option

Start the ManCon and verify the option **GSIMGlobal.**



Server Licenses

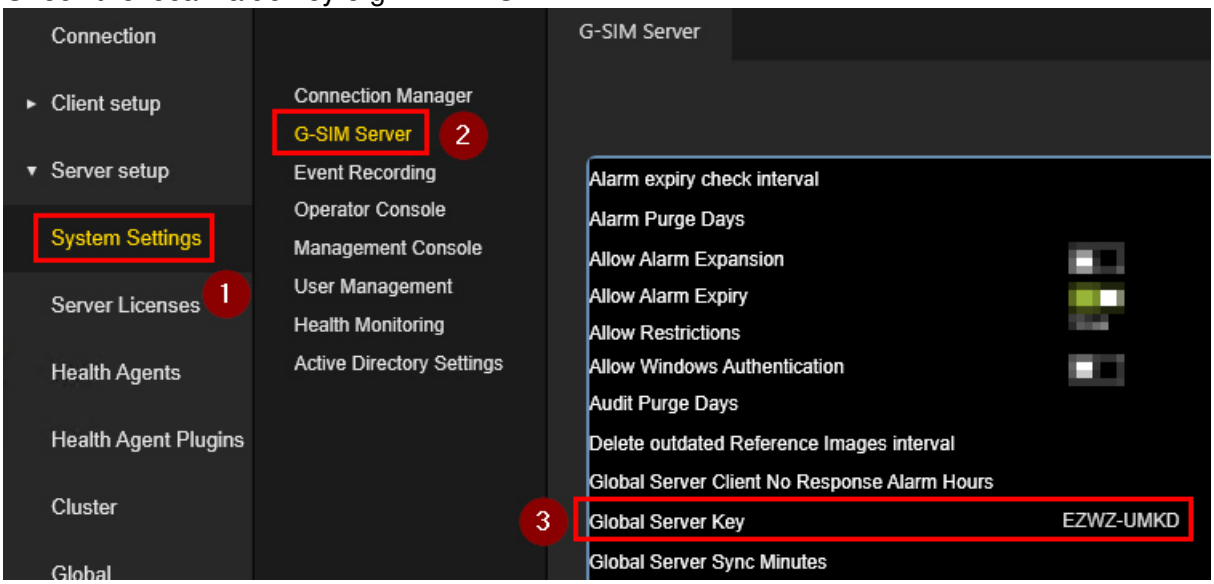
Start the ManCon and enable the licence name: **Allow Global Server Connections**



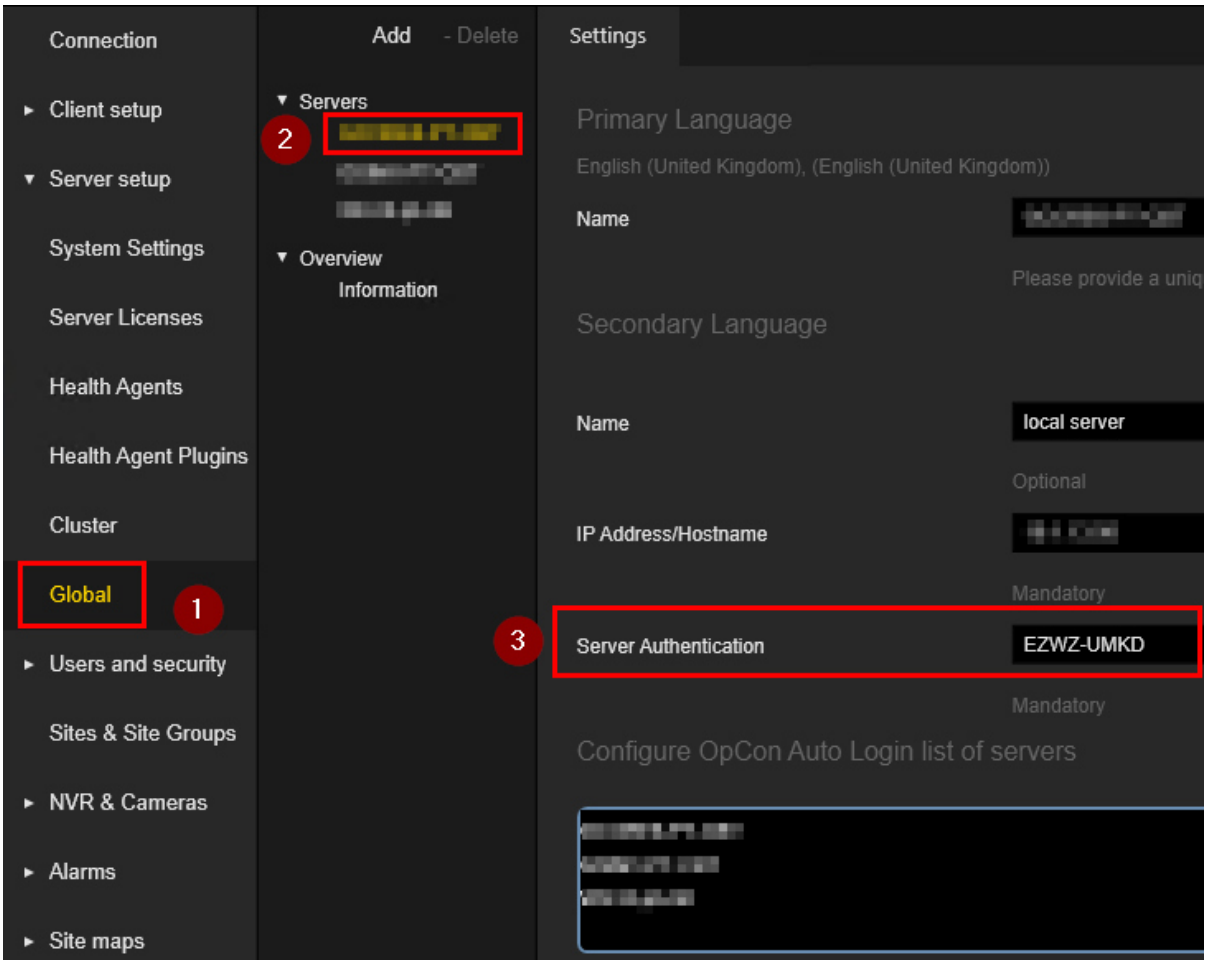
Global Server Key

Start the ManCon and add the **Global Server Key** from each G-SIM Global server into the filed **Server Authentication**.

Check the local value key e.g. **EZWZ-UMKD**



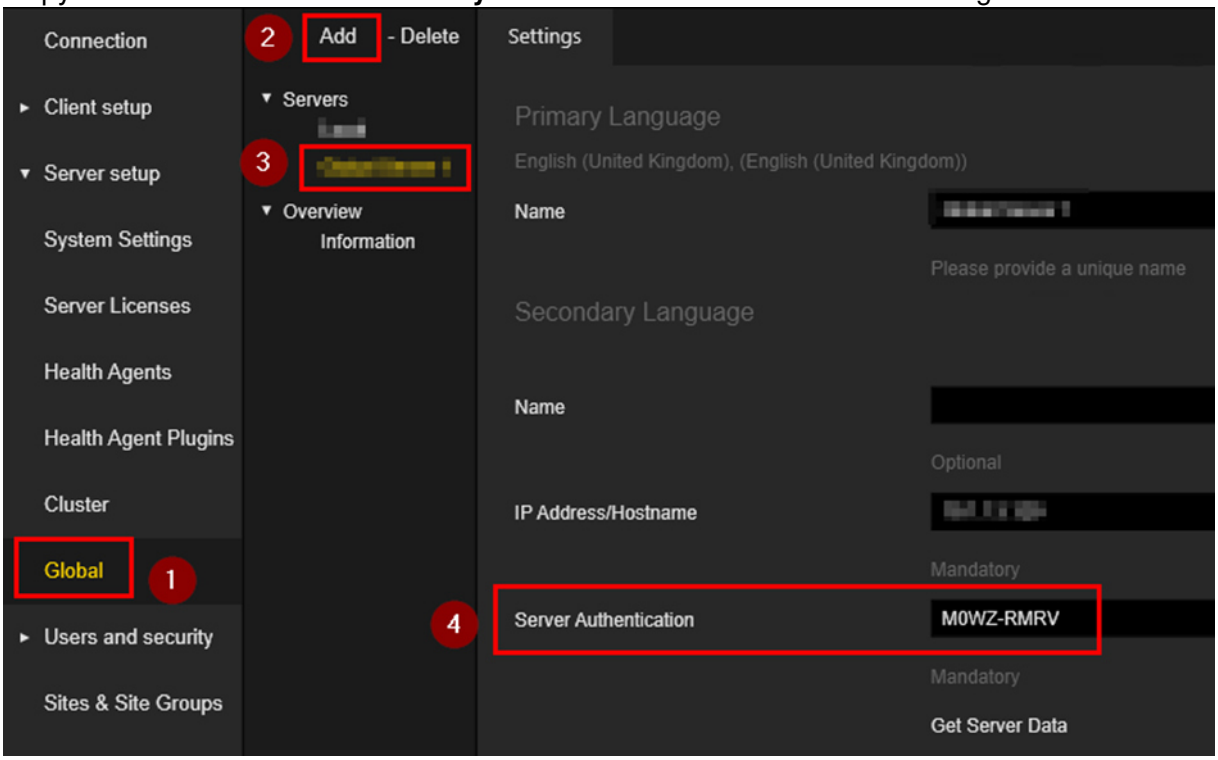
Verify the **local** value key in the field **Server Authentication** e.g. **EZWZ-UMKD**



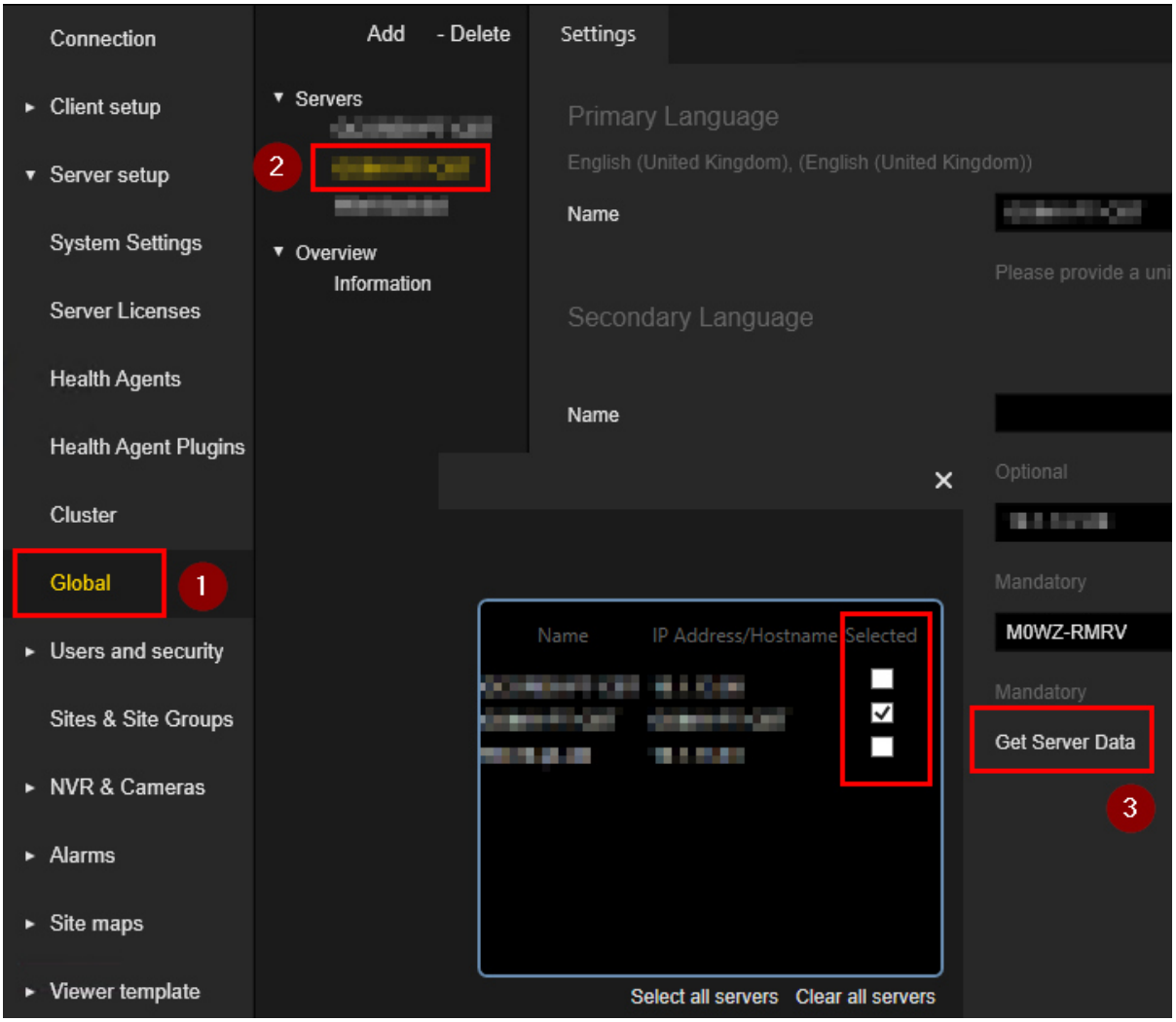
Add the **remote** Global servers

Notice! Use in the field IPAddress / Hostname only IP Address

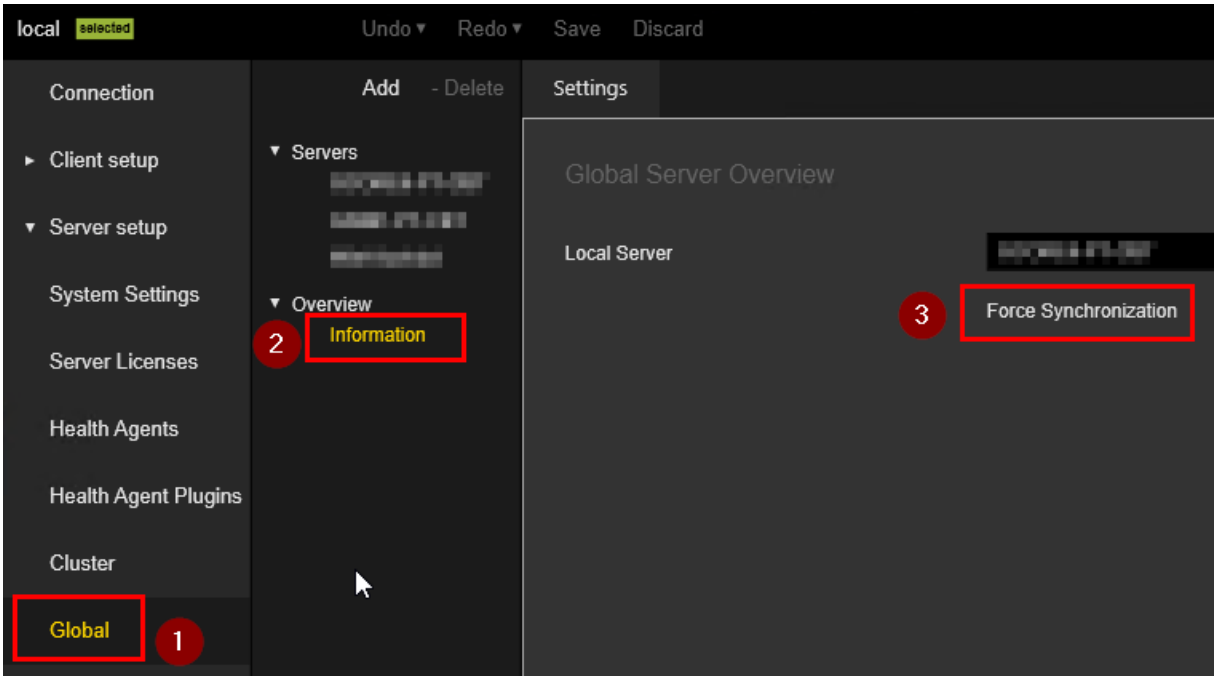
Copy the **remote Global Server Key** in the field **Server Authentication** e.g. **M0Wz-RMRV**



Select the button **Get Server Data** for **remote** Global servers



The synchronization will be started immediately by select **Force Synchronization**



The same setting must be made on all G-SIM Global master, but no for the G-SIM Cluster!

Network Interface

Notice! Start the Windows PowerShell on each GSIM Global Server for port mapping between Kafka service. This configuration has only be done during setup to enable the firewall and allow communication.

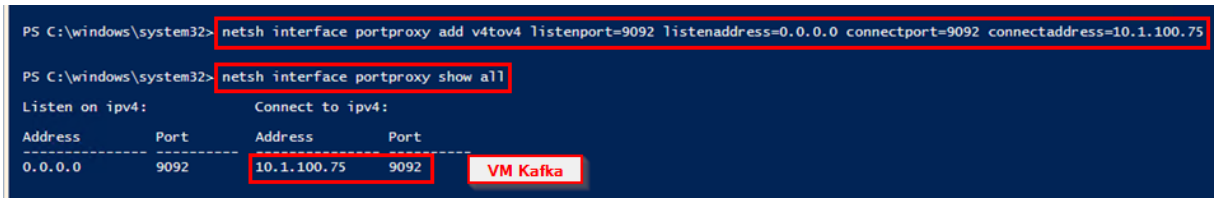
Default Port 9092

Use the following commands:

netsh interface portproxy add v4tov4 listenport=9092 listenaddress=0.0.0.0 connectport=9092 connectaddress=<<IP VM Kafka>>

netsh interface portproxy show all

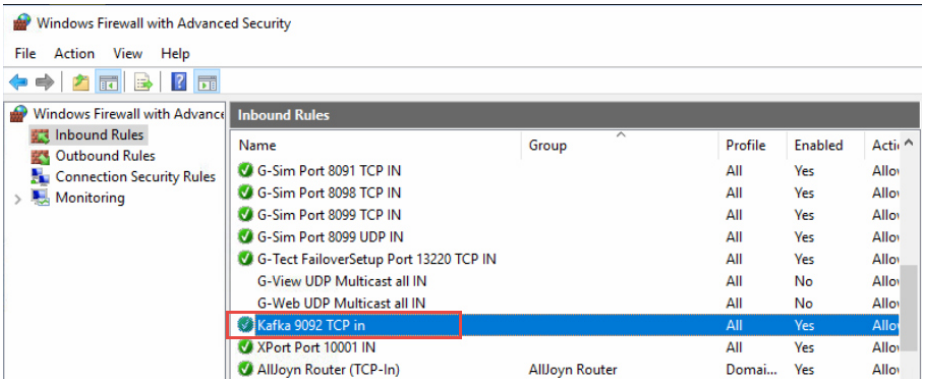
e.g. netsh interface portproxy add v4tov4 listenport=9092 listenaddress=0.0.0.0 connectport=9092 connectaddress=*10.1.100.75*



If you want to delete the interface:

netsh interface portproxy delete v4tov4 ***listenport=9092 listenaddress*=0.0.0.0**

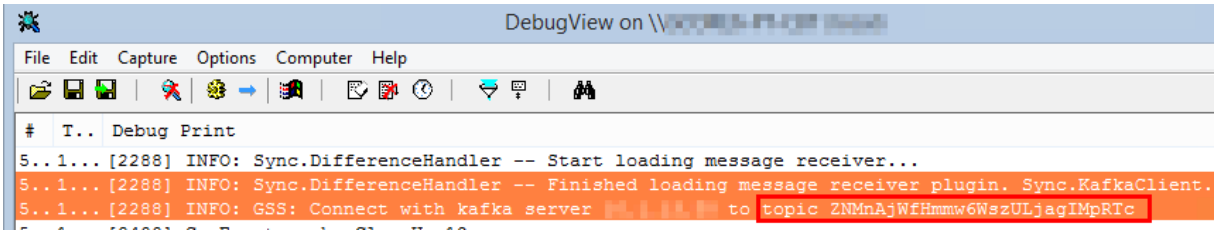
Notice! Setup the Firewall:



G-SIM connect with Kafka

Each GSIM Global Server will be connected with one Kafka server (Topic). This output will be logged by the tool **DeBugView**

e.g. topic: **ZNMnAj……**



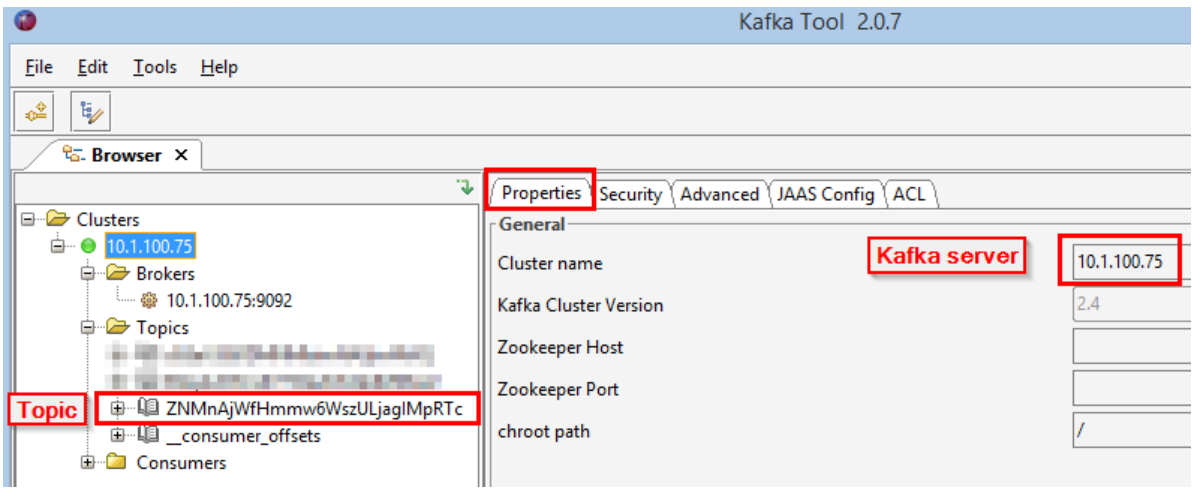
Kafka client

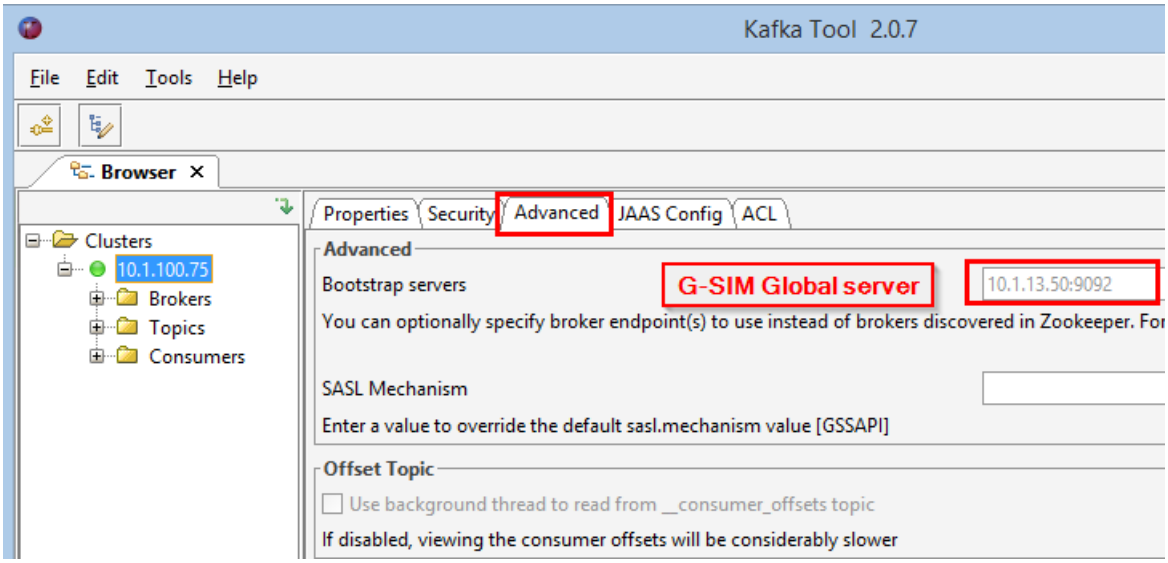
Install Kafka desktop client for testing the GSIM Kafka messages. Theese and the following tools are only needed for debugging / testing and not needed for operation. However it might make sense to install them to have the tools available in case of debugging.

Default Port 9092

Kafka Tool

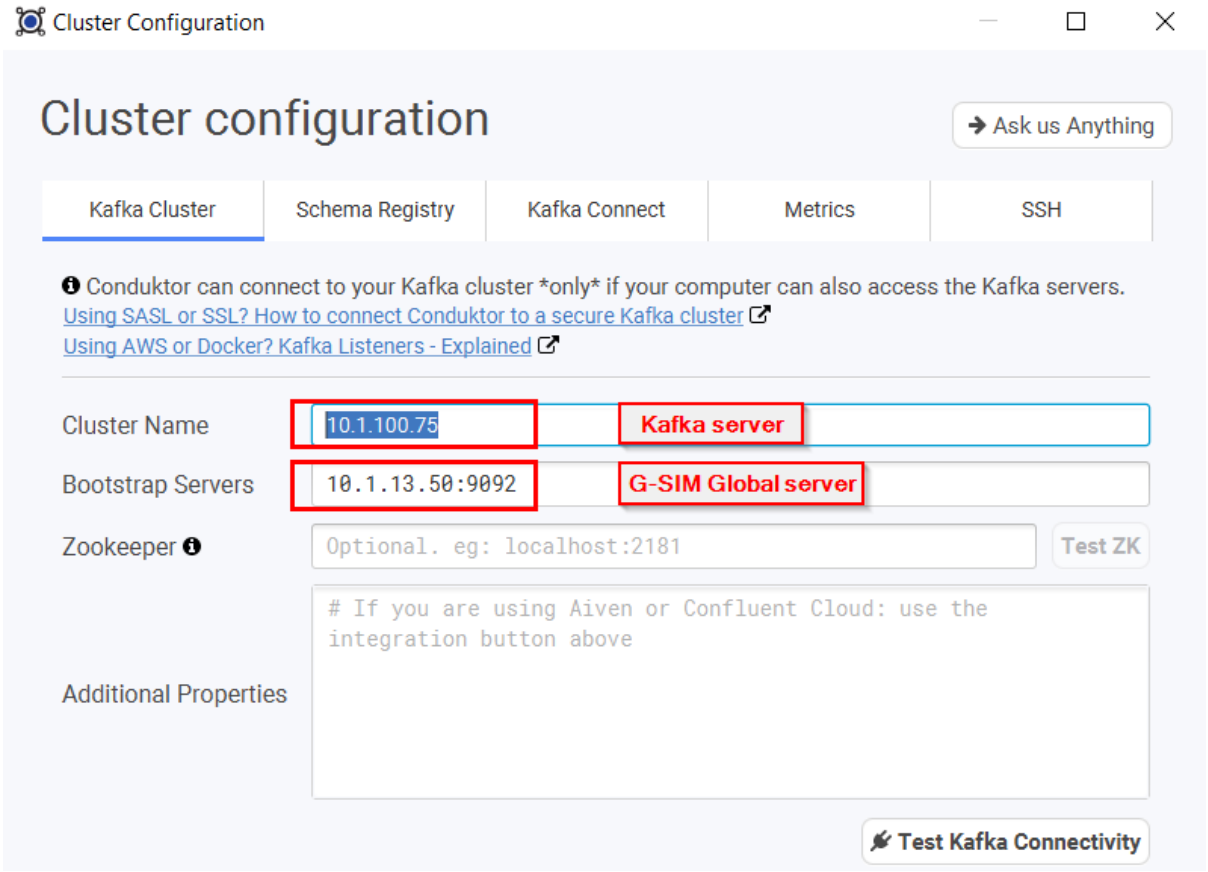
Download: http://www.kafkatool.com/download.html

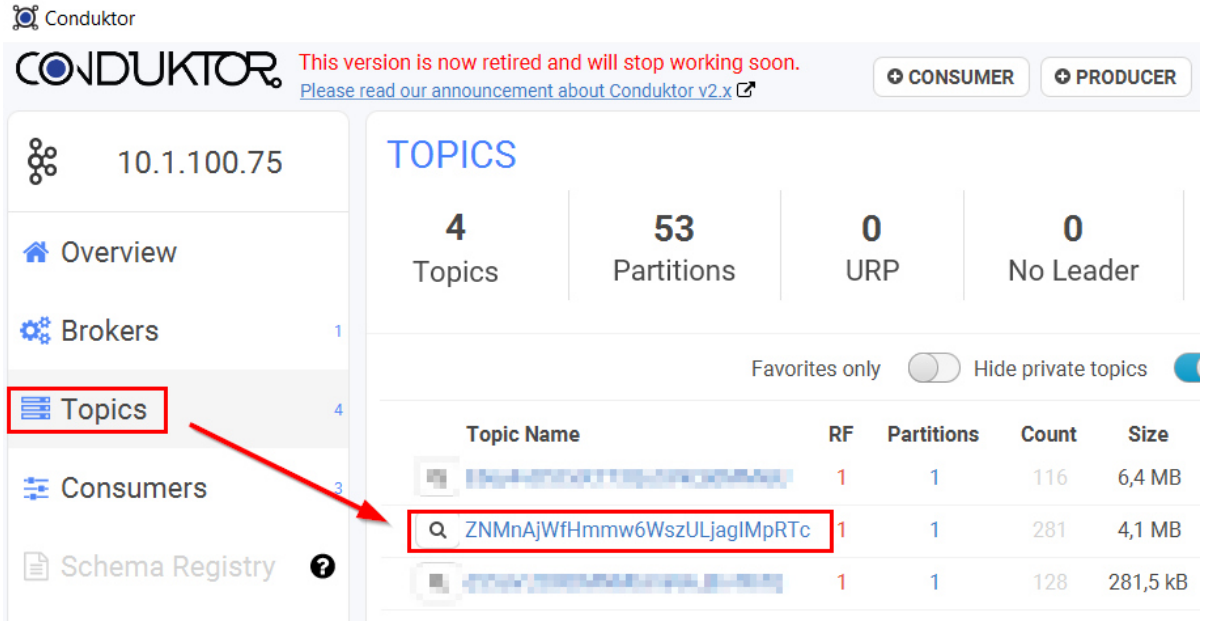




Conduktor

Download: https://www.conduktor.io/download/




Conduktor
CONDUKTOR
This version is now retired and will stop working soon.
Please read our announcement about Conduktor v2.x
CONSUMER
PRODUCER
10.1.100.75
Overview
Brokers 1
Topics 4
Consumers 3
Schema Registry
TOPICS
4 Topics
53 Partitions
0 URP
0 No Leader
Favorites only
Hide private topics
Topic Name
RF
Partitions
Count
Size
1 1 116 6,4 MB
ZNMnAjWfHmmw6WszULjagIMpRTc 1 1 281 4,1 MB
1 1 128 281,5 kB

GEUTEBRÜCK

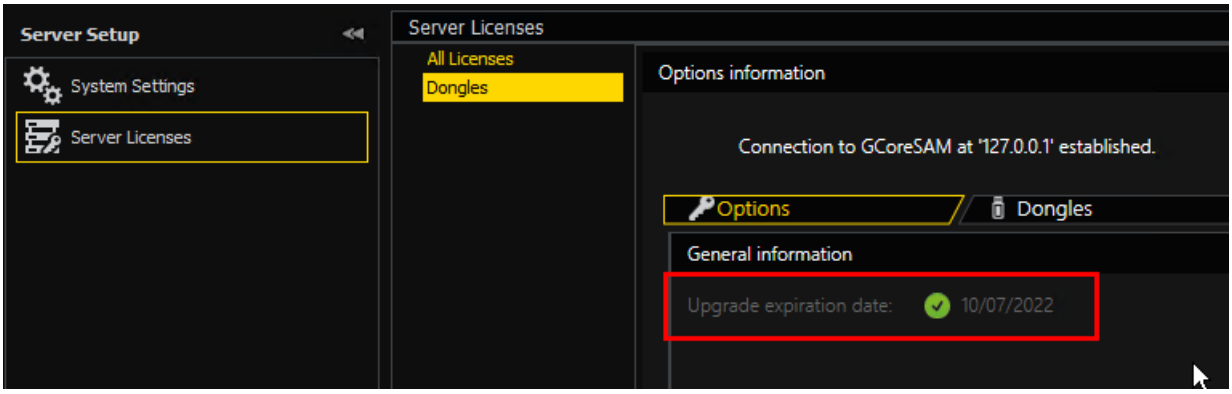
Christoph Bast

Update Information Enterprise-Global

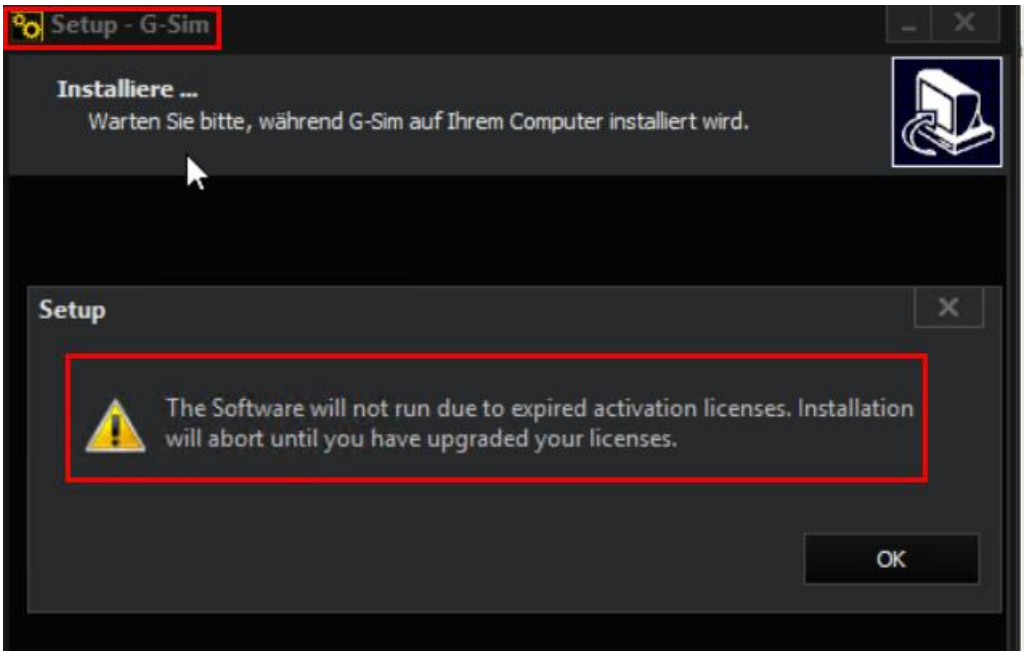
Install Update Test from Release 7.10.1 (old Enterprise version) to the current Global version

1 Upgrade Licence

Check Upgrade licence in the ManCon -Server Licences – Upgrade expiration Date



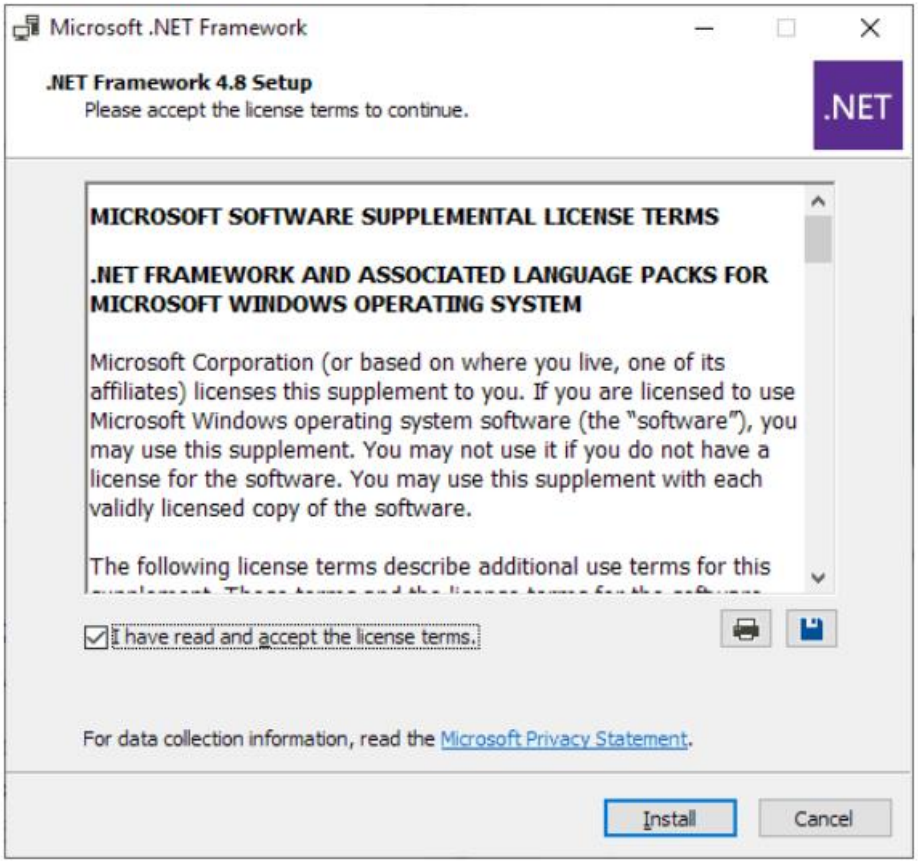
Upgrade licence is not valid, the GSIM Setup Software will be stopped



2 Install DotNet Framework 4.8

The GSIM Setup Software will be stopped when this Framework is not installed

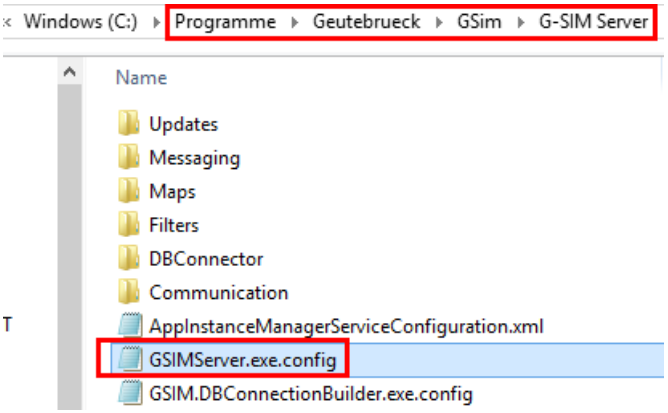
Microsoft .NET Framework 4.8 installers



3 Edit file *GSimServer.exe.config*

Open the following path: **C:\Program Files\Geutebrueck\GSim\G-SIM Server**

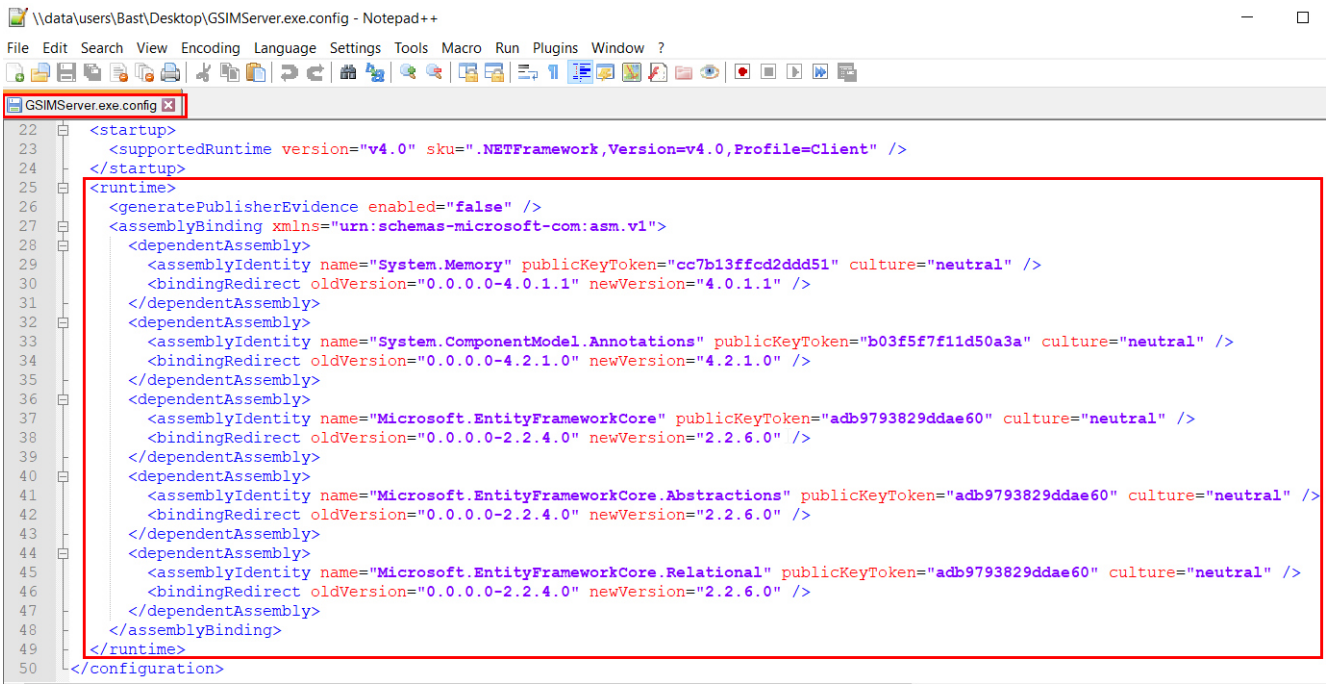
Select and edit the file: **GSimServer.exe.config**



Add manually the following parameters between within **<configuration>**and **</configuration>**

```
<runtime>
   <generatePublisherEvidence enabled="false" />
   <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
     <dependentAssembly>
       <assemblyIdentity name="System.Memory" publicKeyToken="cc7b13ffcd2ddd51"
culture="neutral" />
       <bindingRedirect oldVersion="0.0.0.0-4.0.1.1" newVersion="4.0.1.1" />
     </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="System.ComponentModel.Annotations"
publicKeyToken="b03f5f7f11d50a3a" culture="neutral" />
       <bindingRedirect oldVersion="0.0.0.0-4.2.1.0" newVersion="4.2.1.0" />
     </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="Microsoft.EntityFrameworkCore"
publicKeyToken="adb9793829ddae60" culture="neutral" />
       <bindingRedirect oldVersion="0.0.0.0-2.2.4.0" newVersion="2.2.6.0" />
     </dependentAssembly>
```

```
    <dependentAssembly>
      <assemblyIdentity name="Microsoft.EntityFrameworkCore.Abstractions"
publicKeyToken="adb9793829ddae60" culture="neutral" />
      <bindingRedirect oldVersion="0.0.0.0-2.2.4.0" newVersion="2.2.6.0" />
    </dependentAssembly>
    <dependentAssembly>
      <assemblyIdentity name="Microsoft.EntityFrameworkCore.Relational"
publicKeyToken="adb9793829ddae60" culture="neutral" />
      <bindingRedirect oldVersion="0.0.0.0-2.2.4.0" newVersion="2.2.6.0" />
    </dependentAssembly>
  </assemblyBinding>
 </runtime>
```



G-SIM 9.1.2_RN_EN_31.08.2020

TECHNICAL ALTERATIONS RESERVED.

GEUTEBRÜCK GmbH
Im Nassen 7-9 | D-53578 Windhagen | Tel. +49 (0)2645 137-0 | Fax-999 | E-mail: info@geutebrueck.com | Web: **www.geutebrueck.com**