HCL Sametime V11.0
INSTALLATION
Step by Step
Ver. 1.0
This document contains a step-by-step deployment of HCL Sametime V11.0

The document does not replace official documentation, but is intended to help deploy HCL Sametime V11.0 in a relatively short time.

The document is divided into several chapters from system requirements, Domino server installation and all necessary components to make Sametime fully functional.

The implementation will be demonstrated on a specific example.

The document will be gradually supplemented and updated.
I am a technical consultant of HCL Digital Solutions software: Domino/Notes, Sametime, Nomad, Verse. I am a Member of Czech Lotus User Group = Sutol. I am a Blogger and a Speaker. I have been primarily engaged in the Lotus software family since 1994. I remember the era when these products were owned by Lotus, then IBM, and now I am looking forward to another successful years with HCL Software.

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Agenda

- HCL Sametime V11.0 – Resources
- Pilot example

- Step 1 - Installation and configuration HCL Domino V11 server
- Step 2 - Installation and configuration HCL Domino V11 Administrator client
- Step 3 - Installation and configuration MongoDB
- Step 4 - Installation and configuration HCL Sametime V11.0 Community server
- Step 5 - Installation and configuration HCL Sametime V11.0 Proxy server

- Post Install Tasks for the HCL Sametime V11.0 Server (Optional)
- Step 6 - Exchange self certificate for qualified SSL certificate
- Step 7 - HCL Sametime 11 Proxy server change the default ports
- Step 8 - How to view photos of your contacts HCL Sametime
- Step 9 - Upgrade to HCL Sametime V11.0 server FP1
- Step 10 - Upgrade HCL Sametime Community V11.0 server FP1
- Step 11 - Upgrade HCL Sametime Proxy V11.0 server FP1
HCL Sametime V11 – Resources

Current resources:

- Installation and Administration Guide
  https://help.hcltechsw.com/sametime/11.0.0/administrator_doc.html
  https://hclpnpsupport.hcltech.com/nav_to.do?uri=%2Fkb_view.do%3Fsyst_kb_id%3Dd55ebe1901b115c54086dc9c0a4bcb30

- HCL Customer Support
  https://hclpnpsupport.hcltech.com/csm

- Knowledge DB
  https://hclpnpsupport.hcltech.com/csm?id=search&spa=1&t=kb&q=sametime%20v11

- Documentation
  https://help.hcltechsw.com/sametime/11.0.0/administrator_doc.html

- Discussion HCL Sametime
  https://hclpnpsupport.hcltech.com/community?id=community_forum&sys_id=e3c9a6d01b80841077761fc58d4bcb04
Pilot example

Deployment will take place on Windows Server 2019 64-bit.

**Installed components:**
- HCL Domino server V11
- MongoDB
- HCL Sametime V11.0 Community server
- HCL Sametime V11.0 Proxy Server (Apache Tomcat)
- HCL Sametime V11.0 FP1

All components will be installed on one virtual machine.

*I recommended* using FQDN everywhere instead of IP address
- This will prevent, for example, the problem of an empty chat in the web client or mobile phone or a problem with the client's connection to the Sametime server

HCL Sametime 11 Administration and Installation Guide
https://hclpnpsupport.hcltech.com/nav_to.do?uri=%2Fkb_view.do%3Fsys_kb_id%3Dd55eb1901b115c54086dcbf0a4bcb30
Hardware required for this Pilot Example Deployment

Hardware:
✓ 4 core, 8GB RAM, 80 GB Hard disk

Operation system:
✓ Windows Standard 2019 64-bit

Pre-Requisites
✓ MongoDB 3.6.x
✓ HCL Domino V11.0.1
✓ HCL Sametime V11.0 Community server
✓ HCL Sametime Proxy Server (Apache Tomcat)
✓ HCL Sametime V11.0 FP1

✓ FQDN for my Pilot example server: „sametime11.kaiser.cz“
Topology HCL Sametime V11

Source: HCL Software
Installation Packages

• What we need to install a HCL Sametime V11.0 server
• All packages downloaded from Flexnet to folder „install“ (C:\install)

<table>
<thead>
<tr>
<th>File Description</th>
<th>File Size</th>
<th>File Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCL Domino Server 11.0.1 for Windows English</td>
<td>642MB</td>
<td>Domino_1101_Win_English.exe</td>
</tr>
<tr>
<td>HCL Notes, Domino Designer and Admin 11.0.1 for Windows English</td>
<td>932MB</td>
<td>Notes_Designer_Admin_1101_Win_English.exe</td>
</tr>
<tr>
<td>HCL Sametime 11.0 Community Server for Win64</td>
<td>307MB</td>
<td>Sametime_11.0_CommunityServer_Win64.zip</td>
</tr>
<tr>
<td>HCL Sametime 11.0 Proxy Server for Win64</td>
<td>84MB</td>
<td>Sametime_11.0_ProxyServer_Win64.zip</td>
</tr>
<tr>
<td>MongoDB V3.6.x</td>
<td>323MB</td>
<td>mongodb-win-32-x86_64-2008plus-ssl-3.6.17-signed.msi</td>
</tr>
<tr>
<td>HCL Sametime 11.0 FP1 Community Server for 64-bit Windows Multilingual</td>
<td>721MB</td>
<td>Sametime_11.0_FP1_CommunityServer_Win64.zip</td>
</tr>
<tr>
<td>HCL Sametime 11.0 FP1 Proxy Server for 64-bit Windows Multilingual</td>
<td>91.6MB</td>
<td>Sametime_11.0_FP1_ProxyServer_Win64.zip</td>
</tr>
</tbody>
</table>
Step 1

Installation and configuration
HCL Domino V11 server
Installation HCL Domino V11 server

In the first step, we will install the HCL Domino server as a future basis for the HCL Sametime V11.0 Community server and at the same time the users directory (instead of external LDAP).

We will perform the basic installation and configuration of the HCL Domino server.

We will need these installation files:

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</table>
Installation HCL Domino V11 server

- In the File Explorer navigate to folder "C:\install"
- Open file "C:\install\Domino_1101_Win_English.exe" by "Run as administrator"
Installation HCL Domino V11 server

- Unzip the file to a directory: "C:\install\Domino"
- After unpacking, the Domino server installation will start automatically
Installation HCL Domino V11 server

• Select the language of the installation wizard and then select „OK“ for the next step
• As well as on the next screen, select „OK“ for the next step
Installation HCL Domino V11 server

- **Accept** the License Agreement and continue "**Next**"
Installation HCL Domino V11 server

- Select the directory for the program part and Domino data
  - Program folder: "C:\Program Files\HCL\Domino"
  - Data: "C:\Program Files\HCL\Domino\Data"
Installation HCL Domino V11 server

• Select type licence for HCL Domino server „Domino Enterprise Server“ and continue "Next."
• On the next screen, review the previous steps and continue „Install“
Installation HCL Domino V11 server

• On the next screen you can monitor the progress of the Domino server installation
• After successful installation, finish via the button „Done“
Installation HCL Domino V11 server

- After installation, the Domino server is added to Windows services with automatic startup
- Temporarily disable the service for the initial configuration of the Domino server
- Click the „Windows“ icon and enter „Services“
Installation HCL Domino V11 server

- Search for a service „HCL Domino Server....“
- Right-click and select „Properties“
Installation HCL Domino V11 server

- Change the option in the "Startup type" field from „Automatic“ to „Disabled“
- Continue with buttons „Apply“ and „OK“
Installation HCL Domino V11 server

• In the next few steps, we will setup the new Domino server and the Administrator user
• For our example, we will name of the Domino server "Domino11". Organization name will be "KAISER". The server will therefore be named "Domino11 / KAISER",
• Start the Domino server by the icon „HCL Domino Server" on the Windows desktop
Installation HCL Domino V11 server

- The Domino server setup wizard starts
- And continue "Next", on the "Welcome to Domino server Setup" screen
Installation HCL Domino V11 server

• For our example, we install the first server in the organization. So select an option „Set up the first server or a stand-alone server“
• And click „Next“ to continue
Installation HCL Domino V11 server

- In „Server name“ field enter name our Domino sever: „Domino11“
- And click „Next“ to continue
Installation HCL Domino V11 server

- On next screen in "Organization name" field enter "KAISER"
- Create a password for "Orgnazation Certifier". You will need this Certificate in the future, for example, to register new Domino users
- Password is "passw0rd"
- And click "Next" to continue
Installation HCL Domino V11 server

- On next screen fill in "Domino domain name" field. You can keep "kaiser"
- And click "Next" to continue
Installation HCL Domino V11 server

- Create new Notes user: "Administrator" and his password
- Password is: "passw0rd"
- And click "Next" to continue
Installation HCL Domino V11 server

• You can enable the „HTTP services“ and „LDAP services“ to start automatically with the Domino server. All you have to do is choose only „HTTP services“
• You can disable or enable these services again at any time
• Click „Next“ to continue
Installation HCL Domino V11 server

• Enter the hostname for the Domino server. Because everything will run on one machine, we can keep it „sametime11.kaiser.cz“
• And click „Next“ to continue
Installation HCL Domino V11 server

- Confirm the default options for "Secure Domino Server"
- Click "Next" to continue
Installation HCL Domino V11 server

• On the next screen, review the previous steps and continue by „Setup“
Installation HCL Domino V11 server

- On the next screen you can monitor the progress of the Domino server setup
- After successful server setup, finish by the button „Finish“
Installation HCL Domino V11 server

- You have completed the installation and setup of the Domino server
- Start the Domino server by the icon „HCL Domino Server“ on the Windows desktop
- Start the Domino server as regular application
- Later you can re-enable the start of the Domino server in the autorun services
Installation HCL Domino V11 server

• The Domino server now started. We can go to the next step - installation the HCL Domino Administrator client for the needs of further configuration of the Domino server.
Step 2

Installation and configuration
HCL Domino V11 Administrator
Installation Domino Administrator V11 client

- In the File Explorer navigate to the folder "C:\install"
- Open file "C:\install\Notes_Designer_Admin_1101_Win_English.exe" by "Run as administrator"
Installation Domino Administrator V11 client

- Unzip the file to a directory: "C:\install\Notes"
- Click "Next" to continue
- After unpacking, the Notes clients installation will start automatically
- Click "Next" to continue
Installation Domino Administrator V11 client

• Accept the License Agreement and continue "Next"
Installation Domino Administrator V11 client

• Select the clients for installation
• Notes client is selected automatically. Also select „HCL Domino Administrator“
• Click „Next“ to continue
Installation Domino Administrator V11 client

• On the next screen, you can set Notes to be the default client for email, calendar and contacts
• Click „Install“ to continue
Installation Domino Administrator V11 client

- On the next screen you can monitor the progress of the Notes clients installation
- After successful installation, finish by the "Finish" button
Installation Domino Administrator V11 client

• In the next few steps, we will setup the Notes client for Administrator user which we created during Domino server setup
• Start the HCL Domino Administrator client by the icon „HCL Domino Admin" on the Windows desktop
• The HCL Domino server must be running
Installation Domino Administrator V11 client

- Click "Next" on the "Welcome screen"
- On next screen enter "Administrator" in the field "Your Name" and your server name enter "Domino11/kaiser" (field "Domino server name")
- Click "Next" to continue
Installation Domino Administrator V11 client

- Select „Set up connection to a local area network (LAN)“ for connection to Domino server
- Click „Next“ to continue
Installation Domino Administrator V11 client

• Select „TCP/IP“ and enter host name (or IP)
• Enter your Domino server host name „sametime11.kaiser.cz“
• Click „Next“ to continue
Installation Domino Administrator V11 client

• If the client connects to the server, it will ask you for the password you entered when registering the Administrator user. Password is „\texttt{passw0rd}“
• Click „\texttt{Log In}“ to continue
Installation Domino Administrator V11 client

- Uncheck „Setup instant messaging“ on the next screen
- Click „Next“ to continue
Installation Domino Administrator V11 client

• You do not have to fill in anything on the next screen
• Click „Next“ or „Finish“ to continue
Installation Domino Administrator V11 client

- After successful installation, finish via the button „OK“

- So we have the HCL Domino Administrator and HCL Notes client installed. We can test once again that everything is fine and the client connects to the Domino server
Installation Domino Administrator V11 client

- When the Domino Administrator client starts, the name of the server you are connected to is displayed
- You can now exit the Notes client
Installation Domino Administrator V11 client

- You can still try if the http task is running on the Domino server
- In the web browser enter „sametime11.kaiser.cz“
- If the http task is running, you will see a page „HCL Domino“
• You can now shut down the Domino server
• Open a window with a Domino server
• To shutdown the Domino server, enter „quit“ and confirm with „Enter“ key
Congratulations!

Now you have a HCL Domino V11 server and HCL Notes clients environment for the next steps in implementing HCL Sametime V11.0. Mainly for HCL Sametime V11.0 Community server.
Step 3

Installation and configuration
MongoDB
Installation and configuration MongoDB

- MongoDB use for saving chat history
- Supported version Mongo 3.6.x
- Installation instructions:

**Windows**

[https://docs.mongodb.com/v3.6/tutorial/install-mongodb-on-windows](https://docs.mongodb.com/v3.6/tutorial/install-mongodb-on-windows)
[https://help.hcltechsw.com/sametime/11.0.0/admin/installing_mongodb.html](https://help.hcltechsw.com/sametime/11.0.0/admin/installing_mongodb.html)

!!! Be careful when copying commands and configuration lines from the manual (spaces, slashes)
Installation and configuration MongoDB

- In the File Explorer navigate to folder "C:\install"
- Open file: "C:\install\mongodb-win32-x86_64-2008plus-ssl-3.6.17.-signed.msi"
Installation and configuration MongoDB

- Click "Next" to continue
- Accept the License Agreement and continue "Next"
Installation and configuration MongoDB

• Select „Complete“ setup type
Installation and configuration MongoDB

- Uncheck „Install MongoDB Compass“. MongoDB Compass is optional and not required. This is a Graphical User Interface used to administrate MongoDB.
- Click „Next“ to continue
- On the next screen click „Install“ to continue
Installation and configuration MongoDB

- After complete installation click „Finish“ to continue
- On the next screen click „Install“ to continue
- MongoDB is now installed
Installation and configuration MongoDB

- From a Windows Command Prompt or File Explorer, create the default MongoDB directory path "C:/data/db" because MongoDB will not start without this default data/db directory created.
- Right-click and select "New" and "Folder". Enter "data"
Installation and configuration MongoDB

- Open „data“ folder
- Right-click and select „New“ and „Folder“. Enter „db“
Installation and configuration MongoDB

- From a Windows Command Prompt or File Explorer, create the default MongoDB logs directory path "C:/Program Files/MongoDB/logs"
- Open "C:/Program Files/MongoDB"
- Right-click and select "New" and "Folder". Enter "Logs"
Installation and configuration MongoDB

• Open a Windows Command Prompt navigate to „C:\Program Files\MongoDB\Server\3.6\bin“
• Enter „cd C:\Program Files\MongoDB\Server\3.6\bin“
• Click „Windows“ icon and enter „cmd“. Open „Command Prompt“ application
Installation and configuration MongoDB

• Start the MongoDB server by executing "mongod.exe"
Installation and configuration MongoDB

• Open next Windows Command Prompt navigate to „C:\Program Files\MongoDB\Server\3.6\bin“
• Enter „cd C:\Program Files\MongoDB\Server\3.6\bin“
• Click „Windows icon and enter „cmd“. Open „Command Prompt“ application
Installation and configuration MongoDB

• Start the MongoDB console by execute „mongo.exe“
Installation and configuration MongoDB

- Update the MongoDB schema version to version = 3. Depending on the version of MongoDB, this value may not be present.
- From the MongoDB console, run the following commands:

  > use admin
  > db.system.users.remove({})
Installation and configuration MongoDB

• From the MongoDB console, run the following commands:
  > db.system.version.find()
Installation and configuration MongoDB

- The featureCompatibilityVersion is returned, without authSchema
  
  {"_id": "featureCompatibilityVersion", "version": "3.6"}

- Use the following command to insert the correct authSchema value:
  
  > db.system.version.insert({ "_id": "authSchema", "currentVersion" : 3 })
Installation and configuration MongoDB

• From the MongoDB console, run the following commands:
  > `db.system.version.find()`
• The result of the correct scheme is displayed
Installation and configuration MongoDB

- Restart the MongoDB server and exit the console (to the new schema version change)
- To exit the MongoDB console, use the command “exit”
- To shut down the MongoDB server use “CTRL+C” or close the window with „mongod”
Installation and configuration MongoDB

• Start the MongoDB server backup by execute „mongod.exe“

![.command prompt](image1.png)
![command prompt output](image2.png)
Installation and configuration MongoDB

• Start the MongoDB console by execute „mongo.exe“
Installation and configuration MongoDB

- Create "sametimeUser" in MongoDB from the MongoDB console
- From the MongoDB console, run the following commands:

> use admin
Installation and configuration MongoDB

- From the MongoDB console, run the following commands:
  
  ```bash
  > db.createUser({user: "sametimeUser", pwd: "sametime", roles:[{role:"readWrite", db:"chatlogging"}, { role:"readWrite", db:"mobileOffline"},{role:"userAdminAnyDatabase", db:"admin"}]})
  ```
Installation and configuration MongoDB

• The result of creating a new user „SametimeUser“

```javascript
use admin
switched to db admin
db.createUser({user: "sametimeUser", pwd: "sametime", roles:[{role: "readWrite", db: "chatlogging"}, { role: "readWrite" db: "mobileOffline"}, {role: "userAdminAnyDatabase", db: "admin"}]})
Successfully added user:
  "user": "sametimeUser",
  "roles": [
    {
      "role": "readWrite",
      "db": "chatlogging"
    },
    {
      "role": "readWrite",
      "db": "mobileOffline"
    },
    {
      "role": "userAdminAnyDatabase",
      "db": "admin"
    }
  ]
```
Installation and configuration MongoDB

- Create the "chatlogging" database with "events" and "sessions" collections in MongoDB
- From the MongoDB console, run the following commands:
  - > use chatlogging
  - > db.events.insertOne({"_id" : "dummy"})
  - > db.sessions.insertOne({"_id" : "dummy"})
Installation and configuration MongoDB

- Stop the MongoDB server and exit the console
- To exit the MongoDB console, use the command "exit"
- To shut down the MongoDB server use "CTRL+C" or close the window with "mongod"
Installation and configuration MongoDB

An alternative way to create a "chat logging" database using MongoDB Compas

MongoDB Compas

• Tool for administration MongoDB
  Compass--->https://www.mongodb.com/download-center/compass
• The "chatlogging" database is used to store persistent chat

Detailed instructions for installation and configuration
https://support.hcltechsw.com/csm?id=kb_article&sysparm_article=KB0078330&sys_kb_id=82d228a01bd0d898c1f9759d1e4bcb96
Installation and configuration MongoDB

• On Windows, create the configuration file „mongod.cfg“ in the path referenced in the MongoDB installation path „C:\Program Files\MongoDB\Server\3.6“

• Right-click and select „New“ and „Text Document“ and enter „mongod.cfg“
Installation and configuration MongoDB

• Open file „mongod.cfg“ and add the following contents:

```plaintext
systemLog:
  destination: "file"
  path: "c:\Program Files\MongoDB\logs\log.txt"
storage:
  dbPath: "c:\data\db"
net:
  bindIpAll: true
replication:
  replSetName: rs0
```

You can copy/paste the instructions from the document.

However, the format of the instructions is critical and must remain the same.
The indentations are two spaces, not a “tab” and there can be no trailing spaces at the end of each line.
Installation and configuration MongoDB

- Save file "mongod.cfg" and make sure the file is not saved as a "txt"
Installation and configuration MongoDB

- If the file is saved as ".txt", rename it correctly
- Right-click and select "Rename" and delete "txt"
Installation and configuration MongoDB

- Setup cannot create a autorun service, it must be created manually
  [https://support.hcltechsw.com/csm?id=kb_article&syparm_article=KB0078330](https://support.hcltechsw.com/csm?id=kb_article&syparm_article=KB0078330)
- Create MongoDB service using the Windows sc.exe. This can be run from any location
- Open a Windows Command Prompt
- Click „Windows“ icon and enter „cmd“.
- Open „Command Prompt“ application
Installation and configuration MongoDB

- Create MongoDB service
- Enter:
  
  `sc.exe create MongoDB binPath="\"C:\Program Files\MongoDB\Server\3.6\bin\mongod.exe\" "--service --config="\"C:\Program Files\MongoDB\Server\3.6\mongod.cfg\"" DisplayName="MongoDB" start= "auto"`
Installation and configuration MongoDB

- You can now start the "MongoDB" service
- Click „Windows“ icon and enter „services“: Open „Services“ application
Installation and configuration MongoDB

- Result of the start of the "MongoDB" service
- MongoDB - Running
Installation and configuration MongoDB

• Now....Initiate the Replica Set in MongoDB from the MongoDB console.
• Open next Windows Command Prompt navigate to "C:\Program Files\MongoDB\Server\3.6\bin"
• Enter: "cd C:\Program Files\MongoDB\Server\3.6\bin"
• Click "Windows“ icon and enter "cmd". Open "Command Prompt“ application
Installation and configuration MongoDB

- Start the MongoDB console by execute „mongo.exe“
Installation and configuration MongoDB

- Enter on the following command:
  > rs.initiate()
- Hit “Enter“ it will change to: rs0:Primary>
The replica set is now operational. To view the replica set configuration, use:
> rs.conf()

Notice what the hostname was displayed: „sametime11“

I recommend changing to valid: „sametime11.kaiser.cz“
Installation and configuration MongoDB

- On the MongoDB console use command:
  > `cfg = rs.conf()`
- Now enter correct FQDN:
  > `cfg.members[0].host = "sametime11.kaiser.cz:27017"
- And enter:
  > `cfg.members(cfg)`
Installation and configuration MongoDB

- Exit the mongo shell. Enter "exit"
- And restart service MongoDB
Installation and configuration MongoDB

Congratulations!

Now you have a MongoDB.
Step 4

Installation and configuration
Sametime V11.0 Community server
Installation Sametime V11.0 Community server

• In the File Explorer navigate to folder „C:\install“
Installation Sametime V11.0 Community server

- Extract file "C:\install\Sametime_11.0_CommunityServer_Win64.zip"
- Right-click and select "Extract All" and select path "C:\install\Sametime_11.0_CommunityServer_Win64"
Installation Sametime V11.0 Community server

• After unpacking open folder:
  „C:\install\Sametime_11.0_CommunityServer_Win64\Server“
Installation Sametime V11.0 Community server

- Start installation Sametime Community server
- Open file „install.exe“ by „Run as administrator“
Installation Sametime V11.0 Community server

- Click „OK“ on „Welcome Page“ to continue
- And „Next“ on „Introduction“ page
Installation Sametime V11.0 Community server

- Accept the License Agreement and continue "Next"
Installation Sametime V11.0 Community server

- Select the Directory type you wish to use
- We will use "Domino Directory"
- Click "Next" to continue
Installation Sametime V11.0 Community server

• Select the type of your license to install.
• Here you must select according to your valid license!
• Let's choose this time: „Standard“ and click „Next“ to continue
Installation Sametime V11.0 Community server

- Click „Install“ to continue on the Pre-Installation Summary displays
Installation Sametime V11.0 Community server

- After successful installation, finish by the „Done“ button
Configuring Sametime Community Chat Logging with MongoDB

- This configuration is required to support Persistent Chat. HCL Sametime Web and Mobile clients will not function without Persistent Chat enabled.
- You need to edit the files „sametime.ini“ and „chatlogging.ini“
- Open folder „C:\Program Files\HCL\Domino“
- Find the file: „sametime.ini“
- Right-click and select „Edit“
Configuring Sametime Community Chat Logging with MongoDB

- Find the parameter line „MONGO_URI“
- Change IP to FQDN: „sametime11.kaiser.cz“
- Close and save this file
Configuring Sametime Community Chat Logging with MongoDB

- Open folder "C:\Program Files\HCL\Domino"
- Find the file: "chatlogging.ini"
- Right-click and select "Edit"
Configuring Sametime Community Chat Logging with MongoDB

- Find the parameter line `CL_MONGO_HOST`
- Change IP to FQDN: `sametime11.kaiser.cz`
- Close and save this file
Configuring Sametime Community Chat Logging with MongoDB

- Now you need edit "stconfig.nsf" on the HCL Sametime Community server
- You need start HCL Domino server
- You need start HCL Domino Administrator client

- Open Windows Services
- Click "Windows" icon and enter "services".
- Open "Services" application
Configuring Sametime Community Chat Logging with MongoDB

- Start the HCL Domino server service
- Before that, you can set the service to start automatically
- Find „HCL Domino server“ service
- Right-click and select „Properties“
Configuring Sametime Community Chat Logging with MongoDB

- Select option "Automatic"
- Before that, you can set the service to start automatically
- Find "HCL Domino server" service
- Right-click and select "Properties"
- Click "OK" to save
Configuring Sametime Community Chat Logging with MongoDB

- Start the HCL Domino server service
- Right-click and select "Properties"
- Select "Start"
Configuring Sametime Community Chat Logging with MongoDB

• Start the „HCL Domino Administrator“ client by the icon „HCL Domino Admin" on the Windows desktop
• Enter password for Administrator user: „passw0rd“
Configuring Sametime Community Chat Logging with MongoDB

- Open tab „Files“
- Find and open „Sametime Configuration“ application „stconfig.nsf“
Configuring Sametime Community Chat Logging with MongoDB

- Double-click inside the "CommunityServices" document to place in edit mode
- Change the "Chat Logging Flag" value to "relax" and confirm "OK"
Configuring Sametime Community Chat Logging with MongoDB

- Close and save this document
Configuring Sametime Community Chat Logging with MongoDB

- Restart "HCL Domino server" services to reflect the configuration change. At the same time, the HCL Community server is completely restarted.
Installation Sametime V11.0 Community server

Congratulations!

Now you have complete HCL Sametime V11.0 Community server.
Step 5

Installation and configuration
HCL Sametime V11.0 Proxy server
Installation HCL Sametime V11.0 Proxy server

- Installation and configuration HCL Sametime V11.0 Proxy server
  - During installation, only a self-cert is created
    [How to change a qualified certificate for a self certificate](https://alichtenberg.cz/hcl-sametime-v11-proxy-server-exchange-self-certificate-for-qualified-ssl-certificate)
  - Sametime proxy server cannot be started as a service after installation
    How to automatically start Sametime Proxy server
    - Windows: [https://tinyurl.com/ycfzgnby](https://tinyurl.com/ycfzgnby)
    - Linux: [https://tinyurl.com/y7nh9ece](https://tinyurl.com/y7nh9ece)
Installation HCL Sametime V11.0 Proxy server

• In the File Explorer navigate to folder „C:\install“
Installation HCL Sametime V11.0 Proxy server

- Right-click and select „Extract All“ and select path „c:sametimeproxy“
- And confirm „Extract“
Installation HCL Sametime V11.0 Proxy server

- Open a command prompt and navigate to the location „c:\sametimeproxy“
- Enter „cd C:\sametimeproxy“
Installation HCL Sametime V11.0 Proxy server

- Run the command „install.bat“
- Accept the License, enter „Y“ and continue by „Enter“
Installation HCL Sametime V11.0 Proxy server

- Enter Sametime Server Host: „sametime11.kaiser.cz“
- Accept Sametime Server Port: „1516“
Installation HCL Sametime V11.0 Proxy server

• Enter MongoHost: „sametime11.kaiser.cz“
• Accept Sametime Server Port: „27017“
Installation HCL Sametime V11.0 Proxy server

- Enter Mongo Admin User Name: "SametimeUser"
- Enter Mongo Admin User Passwords: "sametime"
Installation HCL Sametime V11.0 Proxy server

- Enter "Y" to create new self-signed certificate
- If everything is fine, you will see: "Proxy server configured successfully"
Installation HCL Sametime V11.0 Proxy server

- Now start Sametime Proxy server
- Open „bin“ folder. Enter „cd bin“
- Enter „startup.bat“ to start Proxy server
Installation HCL Sametime V11.0 Proxy server

- Sametime Proxy server started
Installation HCL Sametime V11.0 Proxy server

• Now it's time to test if the Sametime server works. We can use Sametime Web client.
• The default ports for the Sametime Proxy are 8080 (http) and 8443 (https).
• The server will automatically redirect users from http to https.
• Open web browser (for example Firefox) and open webpage:
  "https://sametime11.kaiser.cz:8443/chat"
Installation HCL Sametime V11.0 Proxy server

- Because you have only a self-signed certificate a security alert is displayed
- Select „Advanced“ to continue
- Select „Accept the Risk and Continue“
Installation HCL Sametime V11.0 Proxy server

- You will see a HCL Sametime Login page
Installation HCL Sametime V11.0 Proxy server

• Because we used the Domino Directory as the directory, log in to HCL Notes using the login
• Enter „Administrator“ and „passw0rd“
• Click on „LOGIN“ to continue
Installation HCL Sametime V11.0 Proxy server

- Yes. You are now logged in to the working HCL Sametime V11.0
Installation HCL Sametime V11.0 Proxy server

- Sametime proxy server cannot be started as a service after installation
- How to automatically start Sametime Proxy server as a service?
- Click „Windows“ icon and enter „schedule task“. Open „Schedule tasks“ application
Installation HCL Sametime V11.0 Proxy server

- Click on "Create Task"
Installation HCL Sametime V11.0 Proxy server

- Enter name task "Autostart HCL Sametime Proxy"
- Click "OK" to continue
Installation HCL Sametime V11.0 Proxy server

- Change „Security options“ to start As "SYSTEM"
- Click on „ChangeUser or Group“
- Enter „system“ in „Enter the object name select“ field
- Click „Check Names“ to continue
Installation HCL Sametime V11.0 Proxy server

• Click „OK“ to continue
Installation HCL Sametime V11.0 Proxy server

- On the next steps select **Run with highest privileges** and select **Windows Server 2019** in **Configure for** field
- Click **OK** to finish
Installation HCL Sametime V11.0 Proxy server

- Now create New Triggers
- Select „At startup“ on „Begin the task“ field
- Click „OK“ to continue
Installation HCL Sametime V11.0 Proxy server

- Continue with creation New Actions
- Select „Start a program“ in a filed „Action“
- Enter „cmd“ in a field „Program/script“
- „Add arguments“ field enter: "/c C:\SametimeProxy\bin\startup.bat"
- Click „OK“ to continue
Installation HCL Sametime V11.0 Proxy server

- Click "OK" to finish
Installation HCL Sametime V11.0 Proxy server

- Now set environment variable "CATALINA_HOME" with "C:\SametimeProxy"
- Click "Windows" icon and enter for example "comp". Open "This PC" application
- Click on "Advanced system settings"
Installation HCL Sametime V11.0 Proxy server

- Select "Advanced" tab
- Click on "Environment Variables"
Installation HCL Sametime V11.0 Proxy server

- Click „New“ System variables
- Enter „CATALINA_HOME“, in „Variable name“ field and "C:\SametimeProxy" in „Variable value „ field
- Click „OK“ to continue
Installation HCL Sametime V11.0 Proxy server

• Click „OK“ to Finish

• The Sametime Proxy Server will now start automatically when the server is started
• You can try the automatic start of all components: HCL Domino server, MongoDB, HCL Sametime Community server and HCL Sametime Proxy server.
• Restart the machine with your HCL Sametime server
Installation HCL Sametime V11.0 Proxy server

Congratulations!

Now you have complete HCL Sametime V11.0 Proxy server.

and you have a complete

HCL Sametime V11.0 Server
Post Install Tasks for the Sametime V11.0 Server (Optional)
Post Install Tasks

In the following steps you will do:

• Exchange self certificate for qualified SSL certificate
• How to view photos of Sametime contacts
• Upgrade Sametime Community and Proxy server to V11.0 FP1
Step 6

Exchange self certificate for qualified SSL certificate
Exchange self certificate for qualified SSL certificate

The Sametime Proxy Server installation section describes how to automatically create a new self-cert for SSL without any configuration changes. If you use self-cert, it is possible that some web browsers or mobile devices may have problems with this certificate, you will have to create exceptions, rules and so on.

For this example I used a qualified certificate from a Certificate Authority RapidSSL from GeoTrust
Exchange self certificate for qualified SSL certificate

• Open a command prompt and navigate to the location „C:\sametimeproxy\jdk8u222-b10-jre\bin“

• Enter “cd C:\sametimeproxy\jdk8u222-b10-jre\bin“
Exchange self certificate for qualified SSL certificate

- Now we will create a new Certificate Keystore using “keytool”, where we will then import the necessary certificates. We name the new keystore “st.keystore”. Create it “C:sametimeproxy\cfg\”. Use the command:

  "keytool -genkey -alias tomcat -keyalg RSA -keystore C:sametimeproxy\conf\st.keystore"
Exchange self certificate for qualified SSL certificate

- Enter a new password for the your „st.keystore“. Tomcat default uses “changeit”
- Confirm the password again

```
C:\Users\Administrator>cd C:\sametimeproxy\jdk8u222-b10-jre\bin
C:\sametimeproxy\jdk8u222-b10-jre\bin>keytool -genkey -alias tomcat -keyalg RSA -keystore C:\sametimeproxy\conf\st.keystore
Enter keystore password:
R-e-enter new password:
```
Exchange self certificate for qualified SSL certificate

• Fill in basic information about new keystore. In “First and Last name” use “sametime11.kaiser.cz” and gradually filled in further data (Company, City, Country...).
• Finally, agree with the information you entered „yes“
Exchange self certificate for qualified SSL certificate

• Enter password „changeit” for the tomcat.
• Confirm the password again

You have now created a new keystore: „st.keystore“
Exchange self certificate for qualified SSL certificate

• Now you create a new a local Certificate Signing Request (CSR). In order to obtain a Certificate from the Certificate Authority of your choice you have to create a so called Certificate Signing Request (CSR).
• That CSR will be used by the Certificate Authority to create a Certificate that will identify your website as “secure”.
• The CSR is then created with:

```
"keytool -certreq -keyalg RSA -alias tomcat -file certreq.csr -keystore C:\sametimeproxy\conf\st.keystore"
```

Warning:
The JKS keystore uses a proprietary format. It is recommended to migrate to PKCS12 which is an industry standard format using "keytool -importkeystore -srckeystore C:\sametimeproxy\conf\st.keystore -destkeystore C:\sametimeproxy\conf\st.keystore -deststoretype pkcs12".

C:\sametimeproxy\jdk8u222-b10-jre\bin\keytool -certreq -keyalg RSA -alias tomcat -file certreq.csr -keystore C:\sametimeproxy\conf\st.keystore"
Exchange self certificate for qualified SSL certificate

- The generated Certificate Signing Request (CSR) file: "certreq.csr" is in "c:\sametimeproxy\jsk8u222-b10-jre\bin" folder
- Now you have a file called certreq.csr that you can submit to the Certificate Authority. In return you get a Certificate.
Exchange self certificate for qualified SSL certificate

- The certificate must be installed to the keystore where the CSR was created
- Prepare a certificate file and both Intermediate certificates
- Create a new folder: "C:\cert" and save the files with certs to this folder
Exchange self certificate for qualified SSL certificate

• Import Primary Intermediate Trust CA cert
• Open a command prompt and navigate to the location "C:\sametimeproxy\jdk8u222-b10-jre\bin"
• Enter "cd C:\sametimeproxy\jdk8u222-b10-jre\bin"
Exchange self certificate for qualified SSL certificate

- Import Primary Intermediate cert
- Open a command prompt and navigate to the location "C:\sametimeproxy\jdk8u222-b10-jre\bin"
- Enter “cd C:\sametimeproxy\jdk8u222-b10-jre\bin“
- Use the command:

```
keytool -import -alias primary -trustcacerts -file C:\cert\primary.pem -keystore C:\sametimeproxy\conf\st.keystore
```
Exchange self certificate for qualified SSL certificate

• Enter keystore password: „changeit“
• In our case, the keystore already contains the certificate. Still, we'll add it. Enter „yes“ in question “Do you still want do add it to your own keystore?“
• Certificate was added to keystore
Exchange self certificate for qualified SSL certificate

• Now import Secondary Trust CA cert
• Use the command:

```
"keytool -import -alias secondary -trustcacerts -file C:\cert\secondary.pem -keystore C:\sametimeproxy\conf\st.keystore"
```

• Enter keystore password: “changeit”
• Certificate was added to keystore
Exchange self certificate for qualified SSL certificate

• Now import certificate for „sametime11.kaiser.cz“
• Use the command:

```
, keytool -import -alias -trustcacerts -file C:\cert\certificate.txt -keystore C:\sametimeproxy\conf\st.keystore
```

• Enter keystore password: „changeit“
• Certificate was added to keystore
Exchange self certificate for qualified SSL certificate

• Enter keystore password: „changeit“
• Confirm the password again
Exchange self certificate for qualified SSL certificate

- Enter „yes“ in question “Trust this certificate?“
- And certificate was added to keystore
- You now have all the necessary certificates in keystore „st.keystore“
Exchange self certificate for qualified SSL certificate

- Now you need to configure the SSL Connector. Open the “server.xml” file located in the “c:sametimeproxy\conf” folder.
- Edit this file
Exchange self certificate for qualified SSL certificate

• In the configuration, find the connector that should work for the new keystore and uncomment it if necessary.
• In the connector configuration, specify the correct file location and passphrase. The correct configuration looks like this:

```
<Connector protocol="org.apache.coyote.http11.Http11NioProtocol" port="8443" maxThreads="200" scheme="https" secure="true" SSLEnabled="true"
keystoreFile="conf/st.keystore" keystorePass="changeit" clientAuth="false" sslProtocol="TLS"/>
```
Exchange self certificate for qualified SSL certificate

- Save "server.xml" file
- Now restart the HCL Sametime proxy server and your web browser should already see the imported certificate
Exchange self certificate for qualified SSL certificate

- Alternative Solution by Roberto Boccadoro:
  http://www.robertoboccadoro.com/2020/06/22/use-a-ssl-certificate-for-the-sametime-proxy-a-very-easy-way/

- Once you have the pfx file, and the relative password, is very easy to configure Tomcat to use it.
- Open the "server.xml" file in the "sametimeproxy\conf" directory
- Edit it and change the connector from this:

```
<Connector
  port="8443" maxThreads="200"
  scheme="https" secure="true" SSLEnabled="true"
  keystoreFile="conf/stproxy.keystore" keystorePass="samet1me"
  clientAuth="false" sslProtocol="TLS"/>
```

 change to:

```
<Connector
  port="8443" maxThreads="200"
  scheme="https" secure="true" SSLEnabled="true"
  keystoreFile="YOURCERT.pfx" keystorePass="YOURPASS" keystoretype="PKCS12"
  clientAuth="false" sslProtocol="TLS"/>
```
Exchange self certificate for qualified SSL certificate

Congratulations!

You have implemented your own qualified certificate for HCL Sametime server
Step 7

HCL Sametime 11 Proxy server
change the default ports
HCL Sametime 11 Proxy server - change the default ports

- The HCL Sametime V11.0 Proxy Server default configuration uses port 8080 and 8443 for HTTP and HTTPS. If you want to change them to use the standard 80 and 443, follow this procedure
- Open the "server.xml" file located in the "c:sametimeproxy\conf" folder.
- Edit this file
HCL Sametime 11 Proxy server - change the default ports

- In the Connector port change port „8080“ to „80“ and port „8443“ to „443“:

```
<Connector port="8080" protocol="HTTP/1.1" connectionTimeout="20000" redirectPort="8443"/>

<Connector port="80" protocol="HTTP/1.1" connectionTimeout="20000" redirectPort="443"/>
```
HCL Sametime 11 Proxy server - change the default ports

- In the Connector protocol change port „8443“ to „443“

```xml
```

```xml
```

- Close and Save „server.xml“ file
HCL Sametime 11 Proxy server - change the default ports

• Now restart the HCL Sametime proxy server
• Open web browser and open Sametime web client without „8443“ :
Congratulations!

The default ports for HTTP and HTTPS are changed.
Step 8

How to view photos of your contacts
Sametime
View photos of your contacts Sametime

Do you want to display their photos for contacts instead of icons?
View photos of your contacts Sametime

1) Save photos e.g.
C:\HCL\Domino\Data\domino\html\Photo

2) Add the link to the photo. Save photos e.g.
C:\HCL\Domino\Data\domino\html\Photo

3) Add to UserInfoConfig.xml in the section <Details>:
   <Detail FieldName="PhotoURL" Id="PhotoURL" Type="text/plain"/>
   <Detail FieldName="ImagePath" Id="ImagePath" Type="text/plain"/>

4) Add to UserInfoConfig.xml in the section <ParamsSets>:
   <Set SetId="0" params="MailAddress,Name,Title,Location,Telephone,PhotoURL,ImagePath,Company"/>
   <Set SetId="1" params="MailAddress,Name,Title,Location,Telephone,PhotoURL,ImagePath,Company"/>

5) Add to UserInfoConfig.xml between sections <UserInformation> and <Resources>:
   <ReadStConfigUpdates value="false"/>
   This tells the UserInfoServlet to use only the configuration
View photos of your contacts Sametime

- Create folder “Photo” in “C:\Program Files\HCL\Domino\Data\domino\html”
View photos of your contacts Sametime

• Copy contact photo files to folder:
  „C:\Program Files\HCL\Domino\Data\domino\html\Photo“
View photos of your contacts Sametime

• Start the „HCL Domino Administrator“ client by the icon „HCL Domino Admin" on the Windows desktop
• Enter password for Administrator user: „passw0rd“
View photos of your contacts Sametime

- Open „People and Groups“ tab and edit „Administrator“ Person document (Click to „Edit Person“ button)
View photos of your contacts Sametime

- Open „Miscellaneous“ tab and enter link to users photo: „http://sametime11.kaiser.cz/Photo/Photo1.jpg“
- Save Person document (Click to „Save & Close“ button)
- Edit other Person documents in the same way
View photos of your contacts Sametime

• In the File Explorer navigate to folder „C:\Program Files\HCL\Domino“
• Edit „UserInfoConfig.xml“ file
View photos of your contacts Sametime

• Add two lines in section `<Details>`:

```
<Detail FieldName="PhotoURL" Id="PhotoURL" Type="text/plain"/>
<Detail FieldName="PhotoURL" Id="ImagePath" Type="text/plain"/>
```
View photos of your contacts Sametime

- Add two Detail IDs to the `<ParamsSets>` section:

```
<Set SetId="0", params="MailAddress,Name,Title,Location,Telephone,PhotoURL,ImagePath,Company"/>
<Set SetId="1", params="MailAddress,Name,Title,Location,Telephone,PhotoURL,ImagePath,Company"/>
```
View photos of your contacts Sametime

• Add a line between `<UserInformation>` and `<Resources>`:
  `<ReadStConfigUpdates value=“false”/>`

• Close and Save „UserInfoConfig.xml“ file
• Restart server to make changes
View photos of your contacts Sametime

View photos of your contacts Sametime

- Login to web client
- Enter "Administrator“ and "passw0rd“
- Click on "LOGIN“ to continue
View photos of your contacts Sametime

• Yes. The contact's photo is now displayed
View photos of your contacts Sametime

Congratulations!

The contact's photos is complete.
Step 9

Upgrade to
HCL Sametime V11.0 server FP1
HCL Sametime V11.0 – deployment FP1

➢ Upgrade HCL Sametime Community server 11.0 FP1
  • Follow the instructions
    https://tinyurl.com/y7y94eaj

➢ HCL Sametime V11.0 FP1 does not require any change in Mongo DB

➢ Make a backup files:
  Backup the following files Domino and Data directories on the HCL Sametime V11.0 Community server.
  C:\Program Files\HCL\Domino\Data: stconfig.nsf, vpuserinfo.nsf
  C:\Program Files\HCL\Domino: sametime.ini, UserInfoConfig.xml, policies.user.xml, policies.server.xml, chatlogging.ini
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

• Stop „sametime“ services: Domino server, Sametime Community server, Sametime Proxy server
• Open Windows Services
• Click „Windows“ icon and enter „services“.
• Open „Services“ application
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

• Find „HCL Domino server“ service
• Right-click and select „Stop“
• The service stops
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

• Stop „Sametime Proxy server“
• Click „Windows“ icon and enter „schedule tasks“.
• Open „Schedule tasks“ application
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- Find „Autostart HCL Sametime Proxy“ task
- Click „End“ and confirm „Yes“
- The task stops
Step 10

Upgrade
HCL Sametime Community V11.0
server FP1
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- In the File Explorer navigate to folder "C:\install"
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- Extract file “C:\install\Sametime_11.0_FP1_CommunityServer_Win64.zip”
- Right-click and select „Extract All“ and select path „c:\install\Sametime_11.0_FP1_CommunityServer_Win64“
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- Navigate to folder "c:\install\Sametime_11.0_FP1_CommunityServer_Win64\server"
- Open "install.exe" file
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- Continue with FP1 installation by „OK“ button
- And on „Introduction“ screen by „Next“ button
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

• Accept the License Agreement and continue "Next"
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

• Click „Upgrade“ to continue on the Pre-Installation Summary displays
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- You can watch the progress of the installation
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- After successful upgrade, finish by the „Done“ button
Step 11

Upgrade
HCL Sametime Proxy V11.0
server FP1
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

• In the File Explorer navigate to folder „C:\install“
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

• Extract file “C:\install\Sametime_11.0_FP1_ProxyServer_Win64.zip”
• Right-click and select „Extract All“ and select path „c:\sametimeproxy-UPG“

• **Important:** Do not extract 11.0 FP1 in the same location 11.0 is already installed. Doing this would overwrite the existing 11.0 files. Extract 11.0 FP1 in a temporary directory and run install.bat, selecting 'upgrade' to replace the files correctly.
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- Open a command prompt and navigate to the location “c:sametimeproxy-UPG”
- Enter: “cd C:sametimeproxy-UPG”
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- Run the command "install.bat" to upgrade Sametime Proxy server
- Accept the license, enter "Y" and continue by "Enter"
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

• Use “U” to upgrade Sametime Proxy server
• And enter installed proxy server directory “c:\sametimeproxy”
Upgrade HCL Sametime V11.0 to Sametime V11.0 FP1

- Everything is fine if you see: „Proxy server upgraded successfully“
- Restart your server to make changes
Congratulations!

You have now completed the upgrade of Sametime V11.0 to FP1.
HCL Sametime V11.0
INSTALLATION
Step - by - Step

The END