



Deploying HCL Sametime v12 on Docker

A banner for the HCL Software Academy. It features a dark background with a blurred image of a person working at a desk with a laptop. Overlaid on this are several blue geometric shapes, including triangles and a large diagonal stripe. The text 'HCL Software Academy for HCL Digital Solutions' is written in white, bold, sans-serif font.

HCL Software Academy
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Creating a new generation of experts

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Bio

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Introduction

This document contains a step-by-step deployment of HCL Sametime 12.0 on Docker. The document is intended to help deploy HCL Sametime 12.0 for test or small-scale use in a relatively short time. Deployment, sizing, and additional considerations are required for production environments.

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

Prerequisites

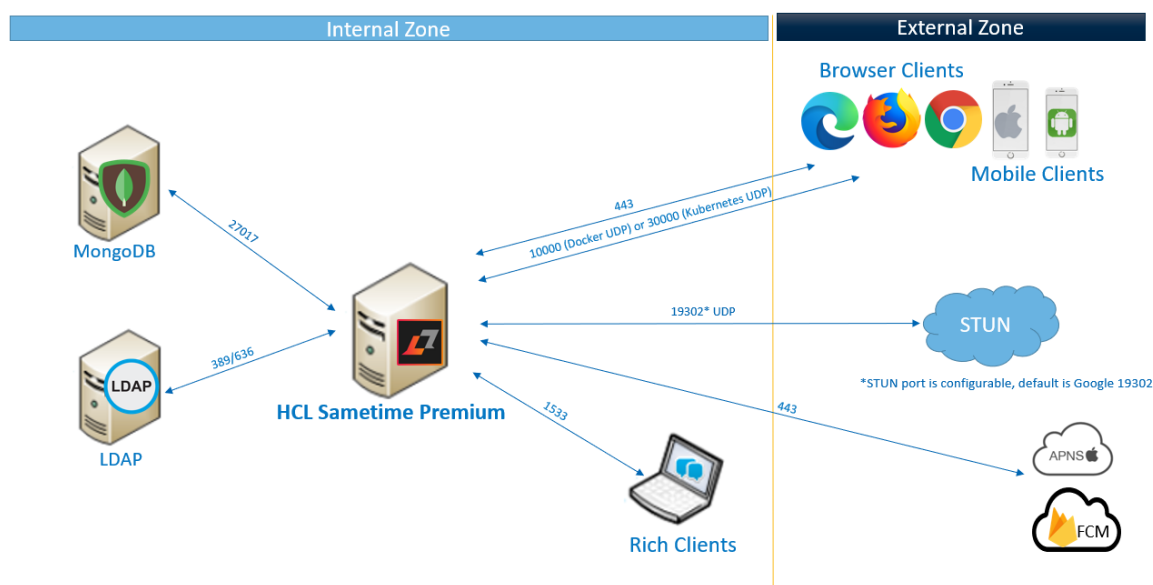
For details, see https://support.hcltechsw.com/csm?id=kb_article&sysparm_article=KB0073898.

Installed Components & Topology

- MongoDB
- Docker
- HCL Sametime 12.0 Premium
- LDAP (for example HCL Domino server)

HCL Sametime 12.0 Topology

HCL Sametime Premium with Internet



Hardware Requirements for this Pilot Deployment

Hardware:

- 4 core, 16GB RAM, 250 GB Hard Disk

Operation system:

- Linux Centos 7.x

Pre-Requisites

- MongoDB 4.4.x
- Docker and Docker Compose 1.29
- HCL Sametime 12.0 Premium or Standard (without Meetings)
- Functional LDAP server for user authentication

Download & Install MongoDB

[MongoDB](#) is used for saving HCL Sametime chat history, persistent chat, and meetings.

Supported version Mongo 4.4.x

Download the latest MongoDB 4.4.x version from MongoDB's download page:

<https://www.mongodb.com/download-center/community>

Follow the installation instructions located in the following resource links:

- <https://www.mongodb.com/docs/v4.4/administration/install-on-linux>
- https://help.hcltechsw.com/sametime/12/admin/installing_mongodb_linux.html

Use caution when copying commands from the Installation manuals (spaces, slashes) and carefully validate proper syntax.

Modify Configuration Files

You will need to edit the configuration files for the MongoDB installation. To edit the files, this whitepaper will provide instructions to use VI or Midnight Commander (MC) on CentOS. MC is a visual file manager that allows you to copy, move and delete files, search for files and run commands.

For the Midnight Commander User Guide, see <https://midnight-commander.org/wiki/doc>

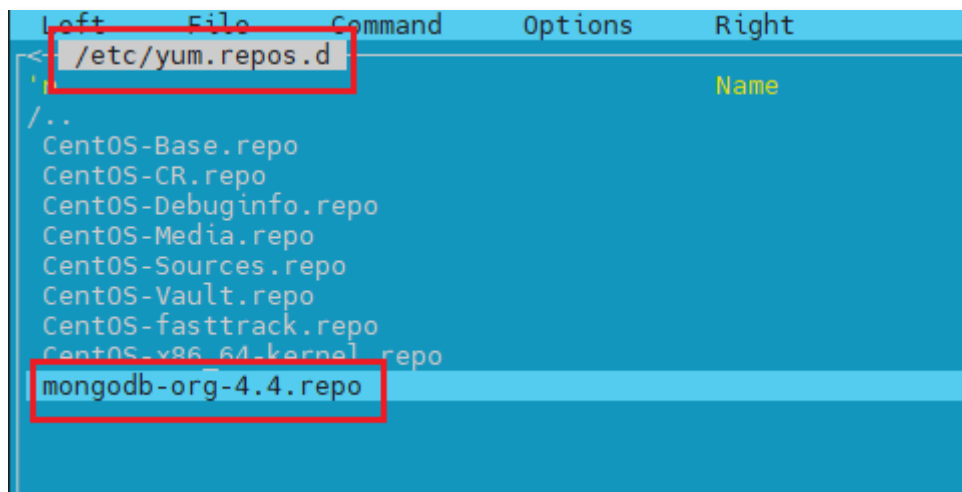
If using MC, execute the following command to install the utility:

```
yum install mc
```

- After installation, start Midnight Commander (MC) with the following command

```
mc
```

- Create a repository file for YUM to install MongoDB. Use the VI command or Midnight Commander (MC) to create and edit the ***mongodb-org-4.4.repo*** file



- To edit the file, use Insert (VI) or F4 (MC) and then copy and paste the following content:

```
[mongoddb-org-4.4]
name=MongoDB Repository
baseurl=https://repo.mongodb.org/yum/redhat/$releasever/mongoddb-
org/4.4/x86_64/
gpgcheck=1
enabled=1
gpgkey=https://www.mongodb.org/static/pgp/server-4.4.asc
```

```
mongoddb-org-4.4.repo [----] 0 L: [ 1+ 0 1/ 6] *(0 / 210b) 0091 0x05B
[mongoddb-org-4.4] ^M
name=MongoDB Repository ^M
baseurl=https://repo.mongodb.org/yum/redhat/$releasever/mongoddb-org/4.4/x86_64/ ^M
gpgcheck=1 ^M
enabled=1 ^M
gpgkey=https://www.mongodb.org/static/pgp/server-4.4.asc
```

If the repo baseurl is unavailable, manually download the rpm files from this location:
https://repo.mongodb.org/yum/redhat/7/mongoddb-org/4.4/x86_64/RPMS/

Delete the file created in step 1 and install manually.

- Press Esc to exit insert mode. To save and exit, use the wq command (VI) or F2 (MC)
- Run the MongoDB package installation

```
yum install mongoddb-org
```

```
[root@sametime12 yum.repos.d]# yum install mongoddb-org
```

- To confirm the download and installed size, type

y

```

=====
Package                                                    Arch
=====
Installing:
mongodb-org                                                  x86_64
Installing for dependencies:
cyrus-sasl                                                  x86_64
cyrus-sasl-gssapi                                           x86_64
cyrus-sasl-plain                                             x86_64
mongodb-database-tools                                     x86_64
mongodb-org-database-tools-extra                           x86_64
mongodb-org-mongos                                          x86_64
mongodb-org-server                                          x86_64
mongodb-org-shell                                           x86_64
mongodb-org-tools                                           x86_64

Transaction Summary
=====
Install 1 Package (+9 Dependent packages)

Total download size: 100 M
Installed size: 318 M
Is this ok [y/d/N]: y

```

- To accept the GPG key import, type

y

```

(6/10): mongodb-org-mongos-4.4.13-1.el7.x86_64.rpm
(7/10): mongodb-database-tools-100.5.2.x86_64.rpm
(8/10): mongodb-org-shell-4.4.13-1.el7.x86_64.rpm
(9/10): mongodb-org-tools-4.4.13-1.el7.x86_64.rpm
(10/10): mongodb-org-server-4.4.13-1.el7.x86_64.rpm
-----
Total
Retrieving key from https://www.mongodb.org/static/pgp/server-4.4.asc
Importing GPG key 0x90CFB1F5:
  Userid   : "MongoDB 4.4 Release Signing Key <packaging@mongodb.com>"
  Fingerprint: 2069 1eec 3521 6c63 caf6 6ce1 6564 08e3 90cf b1f5
  From      : https://www.mongodb.org/static/pgp/server-4.4.asc
Is this ok [y/N]: y

```

Installation complete message will be received.

```

Installed:
mongodb-org.x86_64 0:4.4.13-1.el7

Dependency Installed:
cyrus-sasl.x86_64 0:2.1.26-24.el7_9      cyrus-sasl-gssapi.x86_64 0:2.1.26-24.el7_9
mongodb-org-mongos.x86_64 0:4.4.13-1.el7  mongodb-org-server.x86_64 0:4.4.13-1.el7

Complete!
[root@sametime12 yum.repos.d]#

```

Configure MongoDB

These steps will install a single MongoDB instance. Sametime supports multiple types of MongoDB deployments. If your environment requires high availability, you can implement clustering. Other deployment models are outside of the scope of this document.

- Start the MongoDB server:

```
service mongod start
```

```
Complete!
[root@sametime12 yum.repos.d]# service mongod start
```

- Start the MongoDB console:

```
mongo
```

```
May 08 20:18:18 sametime12.alichtenberg.cz mongod
May 08 20:18:19 sametime12.alichtenberg.cz system
[root@sametime12 yum.repos.d]# mongo
```

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

```
use admin
```

```
To enable free monitoring, run the following
To permanently disable this reminder, run the
use admin
```

- From the MongoDB console, run the following commands:

```
db.createUser({user: "sametimeUser", pwd: "sametime", roles:[{role:"readWrite",
db:"chatlogging"},{ role:"readWrite", db:"mobileOffline"},{ role:"readWrite",
db:"meeting"},{role:"dbAdmin", db:"meeting"},{role:"userAdminAnyDatabase",
db:"admin"}]})
```

```
switched to db admin
> db.createUser({user: "sametimeUser", pwd: "sametime", roles:[{role:"readWrite", db:"chatlogging"},{ role:"readWrite", db:"mobileOffline"},{ role:"readWrite", db:"meeting"},{role:"dbAdmin", db:"meeting"},{role:"userAdminAnyDatabase", db:"admin"}]})
```


Successful result after the creation of a new user "sametimeUser"

```

> use admin
switched to db admin
> db.createUser({user: "sametimeUser", pwd: "sametime", roles:[{role:"readWrite", db:"sametime", db:"admin"}]})
Successfully added user: {
  "user" : "sametimeUser",
  "roles" : [
    {
      "role" : "readWrite",
      "db" : "chatlogging"
    },
    {
      "role" : "readWrite",
      "db" : "mobileOffline"
    },
    {
      "role" : "readWrite",
      "db" : "meeting"
    },
    {
      "role" : "dbAdmin",
      "db" : "meeting"
    },
    {
      "role" : "userAdminAnyDatabase",
      "db" : "admin"
    }
  ]
}

```

- 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"})

```

```

    {
      "role" : "readWrite",
      "db" : "ST_OFFLINE_DB"
    },
    {
      "role" : "userAdminAnyDatabase",
      "db" : "admin"
    }
  ]
}

```

use chatlogging_

```

> use chatlogging
switched to db chatlogging
> db.EVENTS.insertOne({"_id" : "dummy"})
{ "acknowledged" : true, "insertedId" : "dummy" }

```

```

> use chatlogging
switched to db chatlogging
> db.EVENTS.insertOne({"_id" : "dummy"})
{ "acknowledged" : true, "insertedId" : "dummy" }
> db.SESSIONS.insertOne({"_id" : "dummy"})
{ "acknowledged" : true, "insertedId" : "dummy" }

```

Stop the MongoDB server and exit the console

- To exit the MongoDB console, use the command

```
exit
```

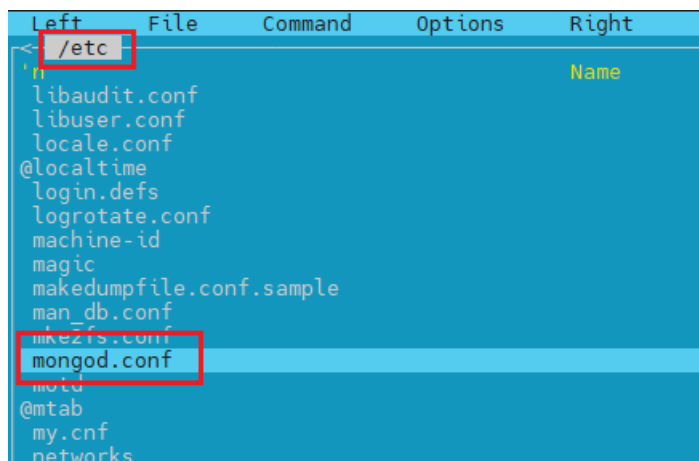
- To shut down the MongoDB server:

```
service mongod stop
```

```
> exit
bye
[root@sametime12 yum.repos.d]# service mongod stop
```

Edit the mongod.cfg file

- Open file “**mongod.cfg**” from path “/etc/mongod.conf”



- Under “**#network**” interfaces add

```
bindIpAll: true
```

- Uncomment the “**replication**” statement and add the following under it

```
replSetName: rs0
```

Important: Use 2 spaces before “replSetName: rs0”, not tabs

```
# how the process runs
processManagement:
  fork: true # fork and run in background
  pidFilePath: /var/run/mongodb/mongod.pid # location of pidfile
  timeZoneInfo: /usr/share/zoneinfo

# network interfaces
net:
  port: 27017
  bindIp: 127.0.0.1 # Enter 0.0.0.0,:: to bind to all IPv4 and IPv6
  bindIpAll: true

#security:

#operationProfiling:

replication:
  replSetName: rs0

#sharding:

## Enterprise-Only Options
```

- Save file “**mongod.cfg**”

Initiate the Replica Set in MongoDB from the MongoDB console

- Start the MongoDB service command prompt on Linux

```
service mongod start
```

```
root@sametime12 yum.repos.d]#
[root@sametime12 etc]# service mongod start
```

- Start the MongoDB console by execute

```
mongo
```

```
[root@sametime12 etc]# service mongod start
Redirecting to /bin/systemctl start mongod.service
[root@sametime12 etc]# mongo
```

- Enter the following command:

```
> rs.initiate()
```

```

To permanent
> rs.initiate()
```

- Press “**Enter**” and the prompt will change to: **rs0:Primary>**

```

> rs.initiate()
{
  "info2" : "no configuration specified. Using a default configuration for the set",
  "me" : "127.0.0.1:27017",
  "ok" : 1,
  "$clusterTime" : {
    "clusterTime" : Timestamp(1594151594, 1),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA"),
      "keyId" : NumberLong(0)
    }
  },
  "operationTime" : Timestamp(1594151594, 1)
}
rs0:SECONDARY>

```

```

}
rs0:SECONDARY>
rs0:PRIMARY>

```

- The replica set is now operational. Exit the console using the command

```
exit
```

```

}
rs0:SECONDARY>
rs0:PRIMARY> exit

```

Congratulations! You have installed and configured the MongoDB.

See [Configuring MongoDB for Sametime](#) for more information.

Install Docker

What is Docker?

Docker is an open-source lightweight containerization technology. It allows you to automate the deployment of applications in lightweight and portable containers and ship it all out as one package. It also allows you to run multiple operating systems on the same host.

How to install Docker Engine: <https://docs.docker.com/engine/install/centos>

How to install Docker Compose: <https://docs.docker.com/compose/install>

For more information, see the [HCL Product Documentation on Installing Docker for Sametime](#).

Important: All commands provided require you to run as ROOT or SUDO access.

- Run the following commands to add the docker repository for software downloads:

```
yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
```

```
root@sametime12 etc]# yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
```

- Install the latest version of Docker Engine and containers

```
yum install -y docker-ce docker-ce-cli containerd.io
```

```
grabbing file https://download.docker.com/linux/centos/docker-ce.repo to /
repo saved to /etc/yum.repos.d/docker-ce.repo
[root@sametime12 etc]# yum install docker-ce docker-ce-cli containerd.io
```

```
libseccomp                                x86_64
libsemanage-python                        x86_64
polycoreutils-python                     x86_64
python-IPy                               noarch
setools-libs                             x86_64
slirp4netns                              x86_64

Transaction Summary
=====
Install 3 Packages (+14 Dependent packages)

Total download size: 99 M
Installed size: 398 M
Is this ok [y/d/N y]
```

```
(8/17): libseccomp-2.5.1-4.el7.x86_64.rpm
(9/17): libsemanage-python-2.5-14.el7.x86_64.rpm
(10/17): fuse-overlayfs-0.7.2-6.el7_8.x86_64.rpm
(11/17): polycoreutils-python-2.5-34.el7.x86_64.rpm
(12/17): python-IPy-0.75-6.el7.noarch.rpm
(13/17): docker-ce-cli-20.10.15-3.el7.x86_64.rpm
(14/17): libcgrouper-0.41-21.el7.x86_64.rpm
(15/17): slirp4netns-0.4.3-4.el7_8.x86_64.rpm
(16/17): setools-libs-3.3.8-4.el7.x86_64.rpm
(17/17): docker-scan-plugin-0.17.0-3.el7.x86_64.rpm

Total
Retrieving key from https://download.docker.com/linux/centos/gpg
Importing GPG key 0x621E9F35:
  Userid : "Docker Release (CE rpm) <docker@docker.com>"
  Fingerprint: 060a 61c5 1b55 8a7f 742b 77aa c52f eb6b 621e 9f35
  From : https://download.docker.com/linux/centos/gpg
Is this ok [y/N]: y
```

```
containerd.io.x86_64 0:1.6.4-3.1.el7

Dependency Installed:
audit-libs-python.x86_64 0:2.8.5-4.el7      check
fuse-overlayfs.x86_64 0:0.7.2-6.el7_8      fuse:
polycoreutils-python.x86_64 0:2.5-34.el7    pytho

Complete!
[root@sametime12 etc]#
```

- Start the Docker Service

```
systemctl start docker
```

```
Complete!  
[root@sametime12 etc]# systemctl start docker
```

- Enable Docker auto start

```
systemctl enable docker
```

- Install Docker Compose on Linux systems:

```
curl -L "https://github.com/docker/compose/releases/download/1.29.0/docker-  
compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```

```
root@sametime12 etc]# curl -L "https://github.com/docker/compose/releases/download/1.29.0/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```

- Apply executable permissions to the binary

```
chmod +x /usr/local/bin/docker-compose
```

```

0          0          0          0          0          0      Dload    Upload    Total   Spent    Left  Speed
100  0     0  100  12.1M  0     0       7875k    0  --:--:--  --:--:--  0
[root@sametime12 etc]# chmod +x /usr/local/bin/docker-compose
```

- Use the command to start the Docker server

```
service docker start
```

```
root@sametime12 etc]# chmod +x /usr/local/bin
root@sametime12 etc]# service docker start
```

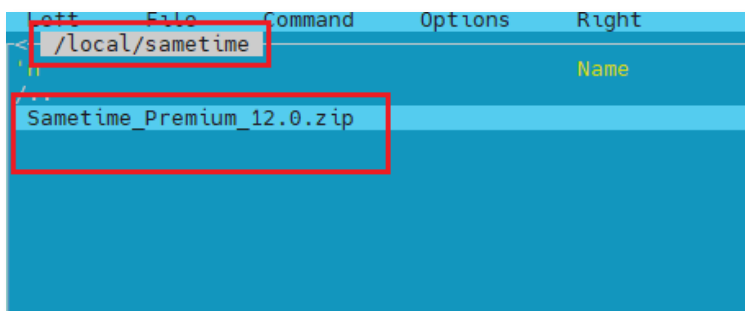
Congratulations! You have now installed Docker and Docker Compose.

See [Installing Docker](#) for more information.

Install & Configure Sametime 12.0 Premium

We will now install HCL Sametime Premium 12.0 on Docker.

- Download HCL Sametime Premium 12.0 file from Flexnet and copy this file for my example to directory “/local/ sametime”



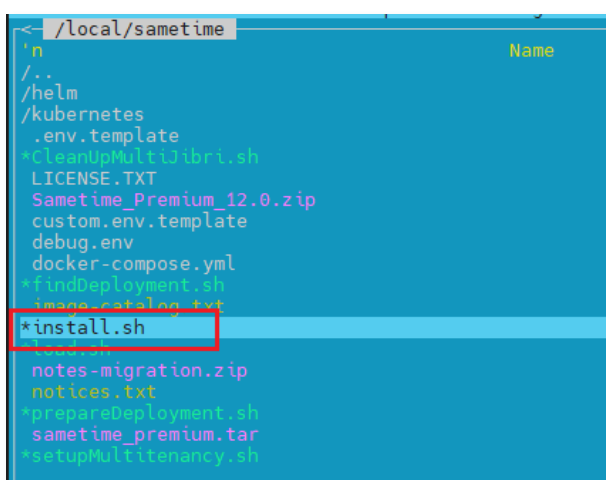
- Extract the zip file Sametime_Premium_12.0.zip:

```
unzip Sametime_Premium_12.0.zip
```

 A terminal window screenshot showing the command `unzip Sametime_Premium_12.0.zip` being executed. The output shows "Complete!" and the prompt changes from `[root@sametime12 etc]#` to `[root@sametime12 sametime]#`. The command line is highlighted with a red box.

- After extracting the Sametime_Premium_12.0.zip file, run the below command to load and initialize the docker images in the directory where you have extracted the zip file and

```
./install.sh
```

 A terminal window screenshot showing the command `./install.sh` being executed. The output shows "inflating: kubernetes/storage/single-node/persistent-volume" and "inflating: kubernetes/storage/single-node/storage-class.". The command line is highlighted with a red box.


Note: The Sametime Premium 12 requires access to a MongoDB server and an LDAP server. For example, you can use an existing Domino LDAP server.

- You will be prompted to enter the following information:

```
Fully qualified name of the Sametime server
Sametime domain name
Mongo host
Mongo port
Mongo admin user name
Mongo admin user password
Mongo Connection URL
LDAP server host name or IP address
Use TLS to access LDAP
LDAP server port
LDAP Base DN for resolving users and groups
Configure advanced LDAP settings needed for binding
Base64 encoded JWT SECRET
TURN server address
Configure TCP over 4443
Configure LTPA
```

- You can now proceed according to the individual images or enter your own company data.

Note: Ensure that you provide a fully qualified domain name when prompted for the Sametime server hostname. If you do not provide an FQDN, you will not be able to successfully login.

- Enter: Fully qualified name of the Sametime server and Sametime domain name
(Just confirm the default values with the "Enter" key)

```
HCL Sametime Premium 12.0
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Installing Sametime server...
Enter fully qualified Sametime server Name: sametime12.alichtenberg.cz
```

```
Installing Sametime server...
Enter fully qualified Sametime server Name: sametime12.alichtenberg.cz
Enter server domain name [alichtenberg.cz]:
```

- Enter:

```
Mongo host and Mongo port
Mongo admin user name and Mongo admin user (sametimeUser) password
Mongo Connection URL
```



```
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Installing Sametime server...
Enter fully qualified Sametime server Name: sametime12.alichtenberg.cz
Enter server domain name [alichtenberg.cz]:
Enter Mongo host []: 192.168.1.112
```

```
Installing Sametime server...
Enter fully qualified Sametime server Name: sametime12.alichtenberg.cz
Enter server domain name [alichtenberg.cz]:
Enter Mongo host []: 192.168.1.112
Enter Mongo port [27017]:
```

```
LICENSED MATERIALS PROPERTY OF HCL. ©Copyright HCL Technologies Limited 2020,2022
Installing Sametime server...
Enter fully qualified Sametime server Name: sametime12.alichtenberg.cz
Enter server domain name [alichtenberg.cz]:
Enter Mongo host []: 192.168.1.112
Enter Mongo port [27017]:
Enter Mongo admin user name: [] sametimeUser
```

```
LICENSED MATERIALS PROPERTY OF HCL. ©Copyright HCL Technologies Limited 2020,2022
Installing Sametime server...
Enter fully qualified Sametime server Name: sametime12.alichtenberg.cz
Enter server domain name [alichtenberg.cz]:
Enter Mongo host []: 192.168.1.112
Enter Mongo port [27017]:
Enter Mongo admin user name: [] sametimeUser
Enter Mongo admin user password: []
```

```
LICENSED MATERIALS PROPERTY OF HCL. ©Copyright HCL Technologies Limited 2020,2022
Installing Sametime server...
Enter fully qualified Sametime server Name: sametime12.alichtenberg.cz
Enter server domain name [alichtenberg.cz]:
Enter Mongo host []: 192.168.1.112
Enter Mongo port [27017]:
Enter Mongo admin user name: [] sametimeUser
Enter Mongo admin user password: []
Mongo connection URL is computed as [mongodb://sametimeUser:*****@192.168.1.112:27017]. Would you like to override this (Y/N)? [N]
```

- Enter:

LDAP server host name or IP address (for example LDAP on Domino server)
Use TLS to access LDAP
LDAP server port

```
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Installing Sametime server...
Enter fully qualified Sametime server Name: sametime12.alichtenberg.cz
Enter server domain name [alichtenberg.cz]:
Enter Mongo host []: 192.168.1.112
Enter Mongo port [27017]:
Enter Mongo admin user name: [] sametimeUser
Enter Mongo admin user password: []
Mongo connection URL is computed as [mongodb://sametimeUser:*****@192.168.1.112:27017].
Enter LDAP server host name or IP address: domino12.alichtenberg.cz
```

```
[root@sametime12 ~]# ./installation
HCL Sametime Premium 12.0
LICENSED MATERIALS PROPERTY OF HCL. ©Copyright HCL
Installing Sametime server...
Enter fully qualified Sametime server Name: same
Enter server domain name [alichtenberg.cz]:
Enter Mongo host []: 192.168.1.112
Enter Mongo port [27017]:
Enter Mongo admin user name: [] sametimeUser
Enter Mongo admin user password: []
Mongo connection URL is computed as [mongodb://s
Enter LDAP server host name or IP address: 192.1
Use TLS to access LDAP (Y/N)? [N]: N
```

```
Enter server domain name [alichtenberg.cz]:
Enter Mongo host []: 192.168.1.112
Enter Mongo port [27017]:
Enter Mongo admin user name: [] sametimeUse
Enter Mongo admin user password: []
Mongo connection URL is computed as [mongod
Enter LDAP server host name or IP address:
Use TLS to access LDAP (Y/N)? [N]: N
Enter LDAP server port [389]:
```

- Enter:

LDAP Base DN for resolving users and groups
Configure advanced LDAP settings needed for binding

```
Use TLS to access LDAP (Y/N)? [N]: N
Enter LDAP server port [389]:
Default LDAP settings are:
No user required for bind
BaseDN for resolving users: []
BaseDN for resolving groups: []
etc...
Configure advanced LDAP settings (Y/N)? [N]: Y
```

```
No user required for bind
BaseDN for resolving users: []
BaseDN for resolving groups: []
etc...
Configure advanced LDAP settings (Y/N)? [N]: Y
Enter DN for binding []: LDAPbind
```

```
etc...
Configure advanced LDAP setti
Enter DN for binding []: Admin
Enter bind password []:
```

```
Enter DN for binding []:   
Enter bind password []:   
Enter BaseDN for resolving users []:   
Enter BaseDN for resolving groups []: █
```

- Enter:

Base64 encoded JWT SECRET
TURN server address
Configure TCP over 4443
Configure LTPA

```
Enter BaseDN for resolving users []:  
Enter BaseDN for resolving groups []:  
Enter the Base64 encoded JWT_SECRET from an existing Sametime deployment: [Empty to generate a new one]  
TURN server address [None]:
```

```
Enter bind password []:  
Enter BaseDN for resolving users []:  
Enter BaseDN for resolving groups []:  
Enter the Base64 encoded JWT_SECRET from an existing Sametime deployment: [Empty to generate a new one]  
TURN server address [None]:  
Configure TCP over 4443 (Y/N) [N]: N
```

```
Enter bind password []:  
Enter BaseDN for resolving users []:  
Enter BaseDN for resolving groups []:  
Enter the Base64 encoded JWT_SECRET from an existing Sametime deployment: [Empty to generate a new one]  
TURN server address [None]:  
Configure TCP over 4443 (Y/N) [N]: N  
Configure LTPA (Y/N) [N]:
```

- The installation is now in progress

```
Loading images...
1a058d5342cc: Loading layer [=====>] 5.886MB/5.886MB
d4c27786f702: Loading layer [=====>] 14.59MB/14.59MB
d5535ab46c02: Loading layer [=====>] 231.7MB/231.7MB
7cbf6941f557: Loading layer [=====>] 13.9MB/13.9MB
a962b8399b7d: Loading layer [=====>] 21.38MB/21.38MB
Loaded image: hclcr.io/st/meetings-jpe:20220422-1520
13f414425f62: Loading layer [=====>] 160MB/160MB
17c7cb9c9d9c: Loading layer [=====>] 7.807MB/7.807MB
291200a56550: Loading layer [=====>] 3.584kB/3.584kB
dd3fa5e1a8ea: Loading layer [=====>] 237.1kB/237.1kB
f09b85ab3ead: Loading layer [=====>] 4.608kB/4.608kB
6412439030a8: Loading layer [=====>] 353.3kB/353.3kB
08d0bed4a937: Loading layer [=====>] 10.75kB/10.75kB
befa8636f7fb: Loading layer [=====>] 65.99MB/65.99MB
223139e056b1: Loading layer [=====>] 4.096kB/4.096kB
681ceea19cfc: Loading layer [=====>] 2.56kB/2.56kB
a6c507af55bb: Loading layer [=====>] 20.48kB/20.48kB
Loaded image: hclcr.io/st/meetings-appregistry.node:20220422-1520
ad6b69b54919: Loading layer [=====>] 72.55MB/72.55MB
9f387291d483: Loading layer [=====>] 338.4kB/338.4kB
930f81d955e2: Loading layer [=====>] 26.62kB/26.62kB
307b2a6410ac: Loading layer [=====>] 420.4MB/420.4MB
Loaded image: hclcr.io/st/sametime-clamav:20220422-1520
cce6dd721fe3: Loading layer [=====>] 72.42MB/107MB
```

Installation successfully completed

```

Generating secrets...
Starting composition...
Creating network "sametime_sametime.test" with the default driver
Creating network "sametime_default" with the default driver
Creating volume "sametime_proxy-workspace" with default driver
Creating volume "sametime_backgrounds" with default driver
Creating volume "sametime_reports" with default driver
Creating volume "sametime_recordings" with default driver
Creating volume "sametime_files" with default driver
Creating volume "sametime_queue" with default driver
Creating volume "sametime_quarantine" with default driver
Creating sametime_clamav_1 ... done
Creating sametime_recordings_1 ... done
Creating sametime_catalog_1 ... done
Creating sametime_jibri-web_1 ... done
Creating sametime_lobby_1 ... done
Creating sametime_nginx_1 ... done
Creating sametime_files_1 ... done
Creating sametime_backgrounds_1 ... done
Creating sametime_activity_1 ... done
Creating sametime_community_1 ... done
Creating sametime_location_1 ... done
Creating sametime_auth_1 ... done
Creating sametime_prosody_1 ... done
Creating sametime_proxy_1 ... done
Creating sametime_app-registry_1 ... done
Creating sametime_mux_1 ... done
Creating sametime_click2call_1 ... done
Creating sametime_jvb_1 ... done
Creating sametime_jibri_1 ... done
Creating sametime_jicofo_1 ... done
Creating sametime_jigasi_1 ... done
[root@sametime12 sametime]#

```

Test your Server

Test to confirm that your server is running and working as expected.

- Run the command below to check if meetings server is running. Show all the loaded docker images:

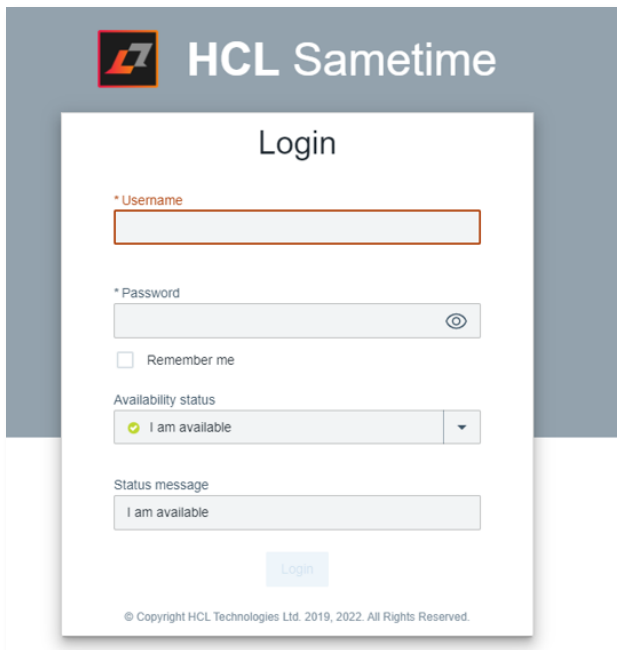
```
docker images
```

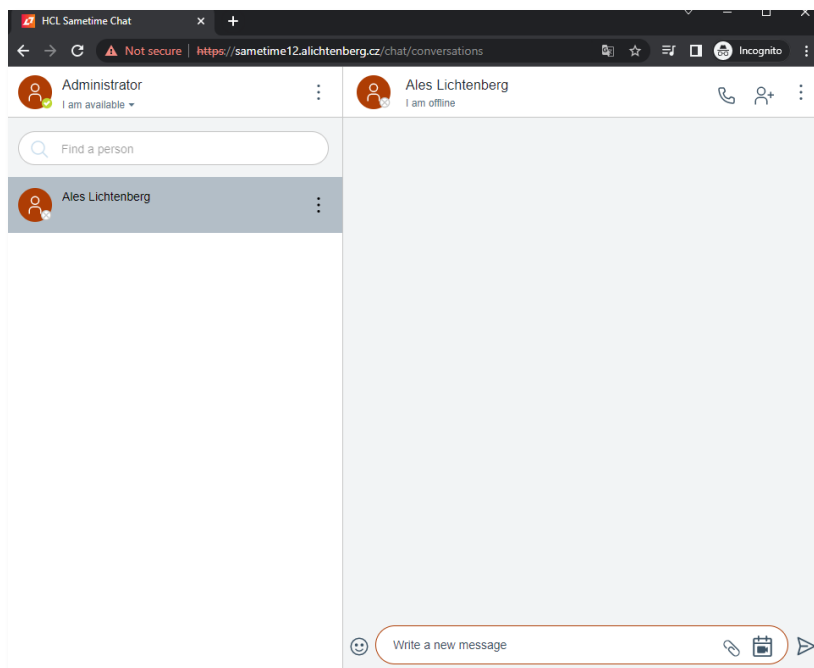
```
[root@sametime12 sametime]# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
hclcr.io/st/sametime-init	20220422-1520	8b53e9d9e7df	2 weeks ago	18.2MB
hclcr.io/st/sametime-clamav	20220422-1520	2406b225af96	2 weeks ago	487MB
hclcr.io/st/meetings-jpe	20220422-1520	7d27959fa21f	2 weeks ago	287MB
hclcr.io/st/meetings-jibri	20220422-1520	29a667fb0800	2 weeks ago	1.32GB
hclcr.io/st/meetings-jibri-web	20220422-1520	db07f3cb8a14	2 weeks ago	304MB
hclcr.io/st/meetings-jigasi	20220422-1520	8c6442d06189	2 weeks ago	341MB
hclcr.io/st/meetings-jvb	20220422-1520	83a6e48ccf70	2 weeks ago	419MB
hclcr.io/st/meetings-web	20220422-1520	4c0d3f612873	2 weeks ago	406MB
hclcr.io/st/sametime-click2call.node	20220422-1520	ca09aa18c05b	2 weeks ago	230MB
hclcr.io/st/sametime-files.node	20220422-1520	1d8326cf6984	2 weeks ago	230MB
hclcr.io/st/meetings-lobby.node	20220422-1520	ccdc5f00b52d	2 weeks ago	230MB
hclcr.io/st/meetings-backgrounds.node	20220422-1520	f76a500d076b	2 weeks ago	230MB
hclcr.io/st/meetings-activity.node	20220422-1520	7e8fa0c7fee1	2 weeks ago	310MB
hclcr.io/st/meetings-recordings.node	20220422-1520	aa1e21150f43	2 weeks ago	230MB
hclcr.io/st/meetings-location.node	20220422-1520	3c7e17d97790	2 weeks ago	229MB
hclcr.io/st/meetings-appregistry.node	20220422-1520	156f0f32c483	2 weeks ago	229MB
hclcr.io/st/meetings-auth.node	20220422-1520	ecaff28fab84	2 weeks ago	234MB
hclcr.io/st/meetings-prosody	20220422-1520	f06951235844	2 weeks ago	124MB
hclcr.io/st/meetings-persistence.node	20220422-1520	105352f94209	2 weeks ago	229MB
hclcr.io/st/chat-mux	20220422-1520	42b3dadff9cf	2 weeks ago	197MB
hclcr.io/st/chat-server	20220422-1520	80132536322f	2 weeks ago	889MB
hclcr.io/st/meetings-outlook	20220422-1520	c070d5e9ab9c	2 weeks ago	257MB
hclcr.io/st/meetings-jicofo	20220422-1520	402433635cd9	4 months ago	374MB
hclcr.io/st/sametime-pushgateway	20220422-1520	a0ebc6b7eba3	6 months ago	19.9MB
hclcr.io/st/chat-proxy	20220422-1520	21b45073a005	42 years ago	318MB

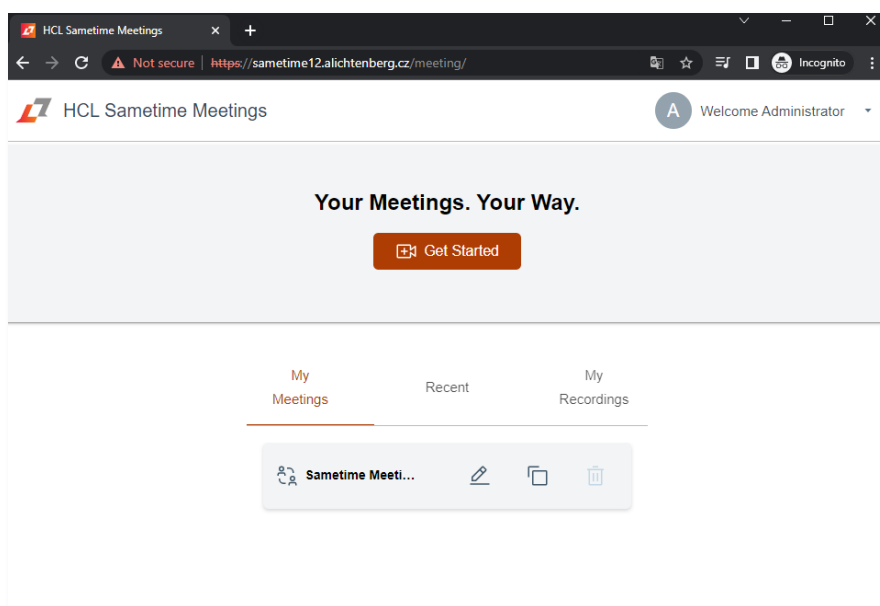
```
[root@sametime12 sametime]#
```

- Use Google Chrome to try your HCL Sametime Chat URL: "<https://yoursametimeserver/chat>"





- Use Google Chrome to try your HCL Sametime Meetings URL:
"https://yoursamtimeserver/meeting"



Congratulations! You have installed the HCL Sametime 12.0 Server on Docker.

User Guides

[Sametime iOS User Documentation](#)

[Sametime Android User Documentation](#)

[HCL Webchat Client Users Guide](#)

[Sametime Meetings Client Guide](#)

Conclusion

In these few steps, you were able to install and configure everything you need to start testing HCL Sametime 12.0 Premium server in your organization. Here are some additional resources for review.

Resources

- **Installation and Administration Guide**
<https://help.hcltechsw.com/sametime/12/admin/index.html>
- **HCL Customer Support**
<https://hclpnpsupport.hcltech.com/csm>
- **Knowledge DB**
<https://hclpnpsupport.hcltech.com/csm?id=search&spa=1&t=kb&q=sametime%20v11>
- **Discussion HCL Sametime**
https://hclpnpsupport.hcltech.com/community?id=community_forum&sys_id=e3c946d01b80841077761fc58d4bcb04

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