

Role STORE - Install Applications and Data

Installing the Meta-Role Software

In a standard installation scenario, a copy of the software repositories is also stored in the central share of the **STORE** role. This is therefore accessible from all machines of the jtel system. Access to the software repositories serves various purposes:

1. All machines in the **TEL** role can execute the telephony applications (R5 scripts) directly from this central share. Alternatively, these components of the software can also be copied locally from the central share to the Windows machines to reduce network traffic during operation. However, this requires additional care when updating the system, since in this case, after updating the repository, the corresponding directories with the R5 scripts must be copied on all Windows machines.
2. In case of initial installation or later updates, the database initialization or database update scripts are executed from here.
3. Additional software components that are installed locally on different machines (e.g. connectors, plugins, UDP listener) are copied and updated from here

Installation of required additional software

Note: for redundant systems, do this on BOTH storage nodes.

Additional software must be installed to provide and update the jtel software repository. Since this can not only be obtained from the official CentOS package sources, other software sources must be configured:

Install additional software sources - MySQL 8.x.

```
yum -y install https://dev.mysql.com/get/mysql80-community-release-el7-3.noarch.rpm
```

Install additional software sources - MySQL 5.6

```
yum -y install http://dev.mysql.com/get/mysql-community-release-el6-5.noarch.rpm
```

The required software can then be installed and configured. The configuration is done under the user jtel.

Install and configure GIT

```
yum -y install git222 mysql-community-client
su jtel
cd
git config --global user.name "jtel Support"
git config --global user.email "support@jtel.de"
```

If you need a proxy for GIT:

Proxy for GIT

```
git config --global http.proxy http://<proxy_server>:<port>
```

Downloading the jtel software for the first time

Note: for redundant systems, do this on the ACTIVE storage nodes.

The following operations are no longer performed in the context of the *root* user but **must** be performed in the context of the *jtel* user. To do this, you can either log in as user *jtel* in a separate SSH session or, if you are already logged in as user *root*, you can switch to the context of the *jtel* user. This is done with the following command:

Change user context

```
su jtel
cd
```

After entering these commands you can recognize the user change at the system prompt, which is now *[jtel@acd-lb ~]\$* (the system prompt consists of username@hostname current directory) The next step is to download the two software repositories with the jtel standard software.

This is done by entering the following commands:

New Repository Locations



Attention: new repository URLs - see here: [New Repository Locations](#)

Download the development repositories

```
cd /srv/jtel/shared
git clone https://bitbucket.org/jtelgmbh/jtel.git JTEL
git clone https://bitbucket.org/jtelgmbh/jtelcarrierportal.git JTELCarrierPortal
```

In the event that specific adaptations or extensions have been programmed for the customer, the customer-specific software repository must also be downloaded. This is done exemplarily by a command which is structured as follows:

Download a custom repository

```
cd /srv/jtel/shared
git clone https://bitbucket.org/jtelgmbh/cacme/software.git cacme
```

Both the source URL and the target directory are customer-specific in this case and differ from case to case.

In the downloaded software repositories, the software release to be installed at the customer must now be selected. In this case it is release 3.14:

Select the desired release

```
cd /srv/jtel/shared/JTELCarrierPortal
git checkout release/stable-3.18
cd /srv/jtel/shared/JTEL
git checkout release/stable-3.18
cd /srv/jtel/shared
```

The last step is to create the directories for central logging, standard data import and the central data directory:

Prepare data directories

```
cd /srv/jtel/shared
mkdir -p LogFiles LogFilesCall Import/{Clients,ServiceNumbers}/{Done,In,Problems}
cp -a JTELCarrierPortal/Data .
cp -a JTEL/Data/system/gui Data/system
cd /srv/jtel/shared/JTELCarrierPortal/Update
bash ./get_binaries.sh
```

Cleaner processes

A CRON job is required to clean up the directories of the portal.

With redundancy, on both STORE. Since the directory is only mounted on one, but we don't know which one, the command must be executed on both.

Caution: as **ROOT**.

Cleaner processes in /etc/cron.daily

```
cat <<EOFF > /etc/cron.daily/jtel_portal_cleaner.sh
find /srv/jtel/shared/Data/clients/*/reports -type f -mtime +2 -delete
EOFF
chmod +x /etc/cron.daily/jtel_portal_cleaner.sh
```