

Zimbra Build, Installation and Configuration

Building code and dependency for ZCS

Zimbra is used to provide the mail server configuration and support.

To build the Zimbra Collaboration Suit (ZCS), we need to clone the “zm-build” package.

This package will clone and build the other required packages.

For installation, we need to build the thirdparty applications as well,

As these packages are interdependent, we need to create a local repo, and copy each rpm into the local repo. The added rpm might be used for building the next coming application/package (as a dependency). Process is mentioned in `zimbra_rhel7.sh` file.

`Zimbra_rhel7.sh`: This is the build script which build the entire ZCS along with its dependencies.

- Install the pre-requisites
- Clone the zm-build repo.
- Clone the packages repo
- Create a local rpm repo, copy each rpm generated from packages to the local repo.
- Apply patches on packages, build each package according to the build order and copy the rpm to local repo directory.
- Clone and apply patches on `unixsocket`, `zm-mail`, `zm-build`, `zm-zcs-lib` and build the `zm-build` package.

`Zimbra_packages.patch` : These patches will allow us to build the third-party applications build for `ppc64le`. Made required changes to build it perfectly.

`Unixsocket.patch` : Patch required to build the `unixsocket_native` package.

`zm-zcs-lib.patch` : `zm-zcs-lib`, will get and generate the required core component libraries (JAR) file.

For PPC64LE, we need following changes:

- `JNA.jar`, JNA version 3.4.0, does not support PPC64le, hence using JNA 4.4.0.
- `Jython.jar`, `jython 2.5.2`, does not have the api, `os.getpid()`, which is used for logging, hence using `jython 2.7.2`
- `Syslog4j.jar`, `syslog4j 0.9.46` is not compatible with JNA 4.4.0, hence using the 0.9.61-SNAPSHOT.
 - o Commented the `syslog4j.jar` copy in the perl script.
 - o Building it by cloning the code from GIT in the build script (`Zimbra_rhel7.sh`)

zm-mail.patch : Updated mailboxd_thread_stack_size to 512k, earlier it was 256k, due to this JAVA throws error and not able to start the mailbox daemon.

zm-build.patch : Updated the installation scripts for PPC64LE and made changes to fix the git clone issues.

zm-jython.patch : As syslog4j is no more supported by the actual owners, using the graylog's jar, hence replaced the namespace and class names.

ZCS installation

- In the build script, we have added all the third party dependency packages into the installer package, hence there is no need of Zimbra repo.
- Following command is required pre-requisites to install the ZCS:

```
yum install -y file libaio sudo sysstat unzip perl-Socket6 nmap-ncat perl-core  
libX11 libXext libXi libXtst libXrender alsa-lib freetype java-1.8.0-openjdk  
net-tools
```

- Follow the steps mentioned in this [link](#) to setup the machine.
- Extract the tgz file using **tar xzf <TGZ file>**
- Install & Configure by running **./install.sh** script.

Note: All the required third packages are available in the installer Zip, so no need to use the Zimbra repo for installing third party dependent packages.