

Upgrade to OpenTUSK 5.0

Your current version is opentusk-4.x.x which is based on RedHat / CentOS 5. The following guidelines will help you install OpenTUSK on RedHat / CentOS 7

Required OS: RedHat / CentOS 7

Upgrade/Install Guidelines

- If your database is setup as localhost, please move your database to this new server. Otherwise, your database setting in tusk.conf should take care of remote DB server.
- Git clone OpenTUSK 5.0 from GitHub into /usr/local/tusk as either root user or a user with sudo privilege. We will change ownership to tusk user in the 'create_system_account' script.

```
> sudo mkdir -p /usr/local/tusk/conf    ### We create both tusk and tusk/conf directories as yourself
> sudo chown -R <your_user_id> /usr/local/tusk
> cd /usr/local/tusk
> git clone git://github.com/opentusk/opentusk.git opentusk
```

- Git clone tusk, apache, shibboleth configurations into "/usr/local/tusk/conf" directory if you have "conf" repository. Otherwise, copy them from the old server.

```
> git clone your-git-conf-repo:opentusk/conf.git conf
```

- Symbolic link the cloned directory to current and setup install settings in a YML file

```
> cd /usr/local/tusk
> ln -s opentusk current
> cd current/install
> cp templates/conf/tusk/tusk_install.yml /usr/local/tusk/conf/tusk_install.yml
# Modify conf/tusk_install.yml appropriately. This will be used for installation setup.
> cd centos
```

- Run install script. This will create tusk/apache users if not yet created, install required yum packages and install Perl/CPAN modules. The Perl /CPAN installation takes some time but be careful to enter your passwords a few times correctly.

```
sudo ./tusk_install_run
```

- Create data directories IF you need data/content directories (Optional)

```
sudo ../scripts/create_directories.sh
```

- Create SSL certificates IF you need to generate ones. Be sure to put some info including domain, country, state, etc in install_tusk.yml (Optional)

```
sudo ./create_ssl_cert
```

- Install shib IF you use Shibboleth authentication (Optional)

```
> sudo ./install_shib

## if your shib settings are in /usr/local/tusk/conf/etc/shibboleth
> cd /etc/shibboleth

## Remove or rename these files before soft linking them to /etc/shibboleth directory.
> sudo ln -s /usr/local/tusk/conf/etc/shibboleth/shibboleth2.xml .
> sudo ln -s /usr/local/tusk/conf/etc/shibboleth/tusk-idp.xml .

## start shib
> sudo systemctl start shibd.service

## troubleshooting
> shibd -t    ## find any shib errors
> LD_LIBRARY_PATH=/opt/shibboleth/lib64 shibd -t    ## get a critical message about libcurl
### error messages are in /var/log/shibboleth/shibd.log
```

- Setup Apache configurations

```
> cd /etc/httpd/conf.d/
> sudo mv ssl.conf ssl.conf.orig
> sudo ln -s /usr/local/tusk/conf/etc/httpd/conf.d/ssl.conf .
> sudo ln -s /usr/local/tusk/conf/etc/httpd/conf.d/tusk_base.conf .
> sudo ln -s /usr/local/tusk/conf/etc/httpd/conf.d/tusk_http.conf .
> sudo ln -s /usr/local/tusk/conf/etc/httpd/conf.d/tusk_https.conf .
> sudo ln -s /usr/local/tusk/conf/etc/httpd/conf.d/tusk_common .
> sudo ln -s /usr/local/tusk/conf/etc/httpd/conf.d/tusk_logging .
```