

## **GIT Installation on Tata Innoverse server .**

Download the latest version of git (<http://git-scm.com/>)

```
git-1.7.7.tar.gz
```

```
tar -xzf git-1.7.7.tar.gz
```

```
cd git-1.7.7
```

```
./configure --prefix=/usr/local/GIT
```

```
make all doc
```

```
sudo make install
```

```
cd ~
```

```
echo "export PATH=/usr/local/GIT/bin/:$PATH" >> .bash_profile
```

Now git is installed in our server . Commit can be done locally and versions of code can be maintained easily .

Some basic commands to work with Local git are

```
git init
```

```
git commit -a -m "first production commit"
```

```
git add .
```

```
git branch -a
```

Now we have intergrated our GIT with web2labs (GERRIT)

For intergrating our git with gerrit following process has to be followed

```
$ ssh-keygen -t rsa
```

```
Enter file in which to save the key (/Users/karteek/.ssh/id_rsa): [Enter the file name] foobar
```

```
Enter passphrase (empty for no passphrase): [Enter password if you want to protect your key]
```

```
Enter same passphrase again:
```

```
Your identification has been saved in foobar.
```

```
Your public key has been saved in foobar.pub.
```

```
The key fingerprint is:
```

```
dc:ff:1f:26:3f:58:b4:01:08:46:f3:4d:3d:65:e0:b8 foobar@compname
```

This will generate a pub key and private key .

Open foobar.pub file, update your email in the ending "foobar@compname" to "foo.bar@tcs.com"

Copy/Move foobar and foobar.pub to ~/.ssh (if folder is not available, create)

```
$ mv foobar* ~/.ssh
```

From web2labs a private with rsa algorithm will be shared with you. (This is a secured key). Please keep it as safe. Now replace the private shared by web2labs in ~/.ssh folder.

Now, open ~/.ssh/config (if its not available, create) and add the following text

```
# gerrit
Host gerrit
HostName yama.web2labs.com
User sasidaran
IdentityFile ~/.ssh/sasidaran
Port 29418
```

OR

```
# gerrit
Host gerrit
HostName yama.web2labs.com
User rakshith
IdentityFile ~/.ssh/rakshith
Port 29418
```

```
$ git config --global user.name "Foo Bar"
$ git config --global user.email "foo.bar@tcs.com"
```

To check whether our server has connected with gerrit

```
ssh -vT rakshith@yama.web2labs.com
```

```
ssh -p 29418 rakshith@yama.web2labs.com
```



```
****      Welcome to Gerrit Code Review      ****

Hi Rakshith S, you have successfully connected over SSH.

Unfortunately, interactive shells are disabled.
To clone a hosted Git repository, use:

git clone ssh://rakshith@review.web2labs.com:29418/REPOSITORY_NAME.git

Connection to yama.web2labs.com closed.
[tiuser@TQMS3 ~]$
```

Clone our git repo with the following command

```
git clone ssh://rakshith@review.web2labs.com:29418/tata-innoverse.git
```

Push the code to the following branch is gerrit (tcs\_account)

```
git push ssh://rakshith@review.web2labs.com:29418/tata-innoverse HEAD/refs/for/tcs_account
```