

Git basics

How to install git

Fedora:

```
sudo yum install git
```

Ubuntu:

```
sudo apt-get install git git-core giggle
```

giggle is a GUI tool, others are gitk git-gui

Repositories

eg:

first.last@izenesoftware.com:/git/StringSort.git

first.last@izenesoftware.com:/git/StringSort-doc.git

first.last is the same with the account you used in the eGroupWare, so is the password.

Process

1. Ask IT to create repository for new project and tell IT the project name.
2. IT create repository on server and inform engineer the git location.
3. Engineer manages the repository by himself/herself.

Get started Guide On git:

1. Clone repository to local machine

```
git-clone firstname.lastname@izenesoftware.com:/git/projectname.git
```

2. Work in the local machine

```
cd projectname
```

```
work work work
```

```
git-add newfile
```

```
git-commit -m 'commit message'
```

```
git-commit -i changedfile
```

3. Sync your work to server

```
git-push firstname.lastname@izenesoftware.com:/git/projectname.git
```

4. Use branch
git-branch newbranch
git-checkout newbranch # switch to the branch

And this is a tiny [Chinese tutorial\(http://www.bitsun.com/documents/gittutorcn.htm\)](http://www.bitsun.com/documents/gittutorcn.htm)

Source version control system **git** is used in all projects by default.

Note

- Use ssh protocol to connect the repository on server, the username and password is the same with the one you used to login eGroupWare.
- All projects are under the folder /git.
- You can navigates the summary of all projects though the web interface.

<https://www.izenesoftware.com/cgi/gitweb.cgi>

Pay attention that https is required and you need username "izenesoftware" and password "izene123" to login.

Example

- 1. Clone repository from server
eg: \$ git clone ian.yang@izenesoftware.com:/git/project.git

until (finish)
{

2. Add new files in local machine
\$ git add file

3. Commit all modified and new added files to local machine
\$ git commit -a -m 'commit log'

4. Push them to server
\$ git push

```
if (I decide to work at home for a while)
{
```

```
    4.1 clone a local repository in my home
```

```
    $ git clone ian.yang@izensoft.com:/git/project.git
```

```
    4.2 work and commit just the same with 2, 3, 4
```

```
    4.3 When I come back to office, pull changes first in my local repository
```

```
    $ git pull
```

```
    } // end if
```

```
} // end until
```

This is a basic scenario to use git as a server/client vc tool.