## Lab 4: Git Hooks for forcing local auto-testing

## Configuration

By Default you can find git hooks in .git/hooks

```
git config --local core.hooksPath "$GIT_DIR/hooks"
```

## Git Hooks

1. Start with the usual cration of a lab repo.

```
mkdir ./lab4
cd ./lab4
git init
```

2. Now create a test.sh file for the git commit

```
echo -e "#/bin/bash\necho \"test works\";" > ./test.sh
chmod 700 ./test.sh
./test.sh || echo "debug test.sh"
git add ./test.sh
git commit -m "added a basic test script"
```

3. find the sample template hooks and copy the pre-commit template located at...

```
.git/hooks/pre-commit.sample
```

... and create a copy at .git/hooks/pre-commit:

```
ls -alp .git/hooks
cp -vf .git/hooks/pre-commit.sample .git/hooks/pre-commit
```

- 4. edit the file .git/hooks/pre-commit and CAREFULLY add an if-then-else to run the test.sh script we already created.
- 4a. Find the 2 lines (should be around line 21-22 in the default sample):

```
# Redirect output to stderr.
exec 1>&2
```

4b. and replace those with the following (note the two lines are included in the replacement text to simplify changes)

5. Now enable tests with the new hook:

```
git config --local hooks.forcecommittest true
```

6. Now test that is works

```
echo "change to test." > ./testfile.txt
git add./testfile.txt
git commit -m "test git hook"
```