LAB 1: Installing & Configuring Git

Step 1: Create a Github Account

1. Go to **https://github.com** and click on **Sign up for GitHub**
2. Provide with your details - username, email address, password & click on **Create Account**

Step 2: Create a Repository

1. Click on **Create a new repository**
2. Create a Public Repository by name **centralrepo**

Step 3: Launch two EC2 instances in two regions (Mumbai & London).

Run below commands in both machines

- sudo su -
- yum update –y
- yum install git –y
- git –-version
- git config –-global user.name "Ram/Shyam"
- git config –-global user.email ram/shyam@gmail.com
- git config --list
- git remote add origin https://github.com/RST-10/centralrepo.git

Step 4: Git Commands in Mumbai EC2

Create directory & go inside that

- mkdir mumbaigit
- cd mumbaigit
- git init (to initialize git)

Create new file, see status, put in staging area & commit into local repo

- touch myfile (put some content)
- git status
- git add .
- git commit –m "1st commit from Mumbai"
- git log
- git show <commit-id>

- git push origin master

Step 5: Git Commands in London EC2

Create directory & go inside that

- mkdir londongit
- cd londongit
- git init (to initialize git)
- git remote add origin <centralgit repo url>
- git pull origin master
- git log
- git show <commit-ID>
- cat >> file1 (append with some content)
- git status
- git add .
- git commit –m "1st commit from London"
- git push –u origin master

Step 6: Git Log

Git log options

- **git log**
- **git log –1**
- **git log --oneline**

To pic commit based on commit message

- **git log --grep "any word of commit msg"**

To see the content of particular commit

- **git show <commit-ID>**