SCale Tech
10 week 2019

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02_Class

6-08-19

Some context about Git

CVCs:

Centralized version control systems are based on the idea that there is a single "central" copy of your project somewhere (probably on a server), and programmers will "commit" their changes to this central copy.

DVC:

Distributed Version Control: These systems do not necessarily rely on a central server to store all the versions of a project's files. Instead, every developer "clones" a copy of a repository and has the full history of the project on their own hard drive. This copy (or "clone") has all of the metadata of the original.

GIT is a version of DVC:

A distributed version collaboration language. Highly recommended to learn this language to use on the command land. Keeps you vendor neutral and not dependent on a commercial platform.

Platforms with GIT:

Read about branching and workflows at [GitHub](#) or [Atlassian](#),

Other sources: https://git-scm.com/book/en/v2/Git-Branching-Branches-in-a-Nutshell

Before Git there was CVS

Concurrent Versions System, To read more about the history and evolution:

https://twobithistory.org/2018/07/07/cvs.html

Tools:

SSH keygen:

Uses RSA algorithm. Share public key with Github. (See Github tutorial on creating your ssh key)

Key rings:

Allows you to group your keys. Stored in home directory for ssh. Passphrase allows access. A password manager.

Resources:

The SCale-network repo :

https://github.com/socallinuxexpo/scale-network

The SCale-network repo contributors guide:
https://github.com/socallinuxexpo/scale-network/blob/master/CONTRIBUTING.md

Open-SSH Cookbook:

OpenSSH/Cookbook/Proxies and Jump Hosts---A proxy is an intermediary that forwards requests from clients to other servers. Performance improvement, load balancing, security or access control are some reasons proxies are used.

https://trunkbaseddevelopment.com/

The guide to the Trunk based workflow that scale-network repo is based on.

MAN giteveryday

A useful minimum set of commands for Everyday Git

Homework:

Vim Adventures (more practice with VIM)

Complete the GitHub SSH tutorial and upload public key to your GitHub account

Videos:

How SSH works:

https://www.youtube.com/watch?v=U62S8SchxX4

AT&T Archives: The Unix Operating System

https://www.youtube.com/watch?v=tc4ROCJYbm0

Odds and Ends:

XClip

xclip is a command line utility that is designed to run on any system with an

X11 implementation. Cleans clipboard for inadvertent characters.