* Git and GitHub 101

Prerequisites

* Linux Basics
* AWS/Azure account
* AWS EC2/ Azure VM
* GitHub Account

Version Control System (VCS):

* A system that keeps track of your changes like v1, v2, v3, …
* Allows collaborating development
* Track and revert changes
* **Git** is an example of VCS

Types of VCS:

1. **Local VCS**

* One Server, One Developer, No Backup
* Local VCS is the type of VCS which is inside your computer
* Most suitable for single developers
* Ex- If you’re working on your project alone, then you can opt this

1. **Centralized VCS:**

* One main server, Multiple developers, No Backup
* Collaborative as compared to local VCS, multiple developers can work at a time
* Ex- Multiple developers working on a project without worry of backup

1. **Distributed VCS:**

* One main server + Multiple local servers, Multiple developers, Backup Available
* Combination of Local + VCS
* Highly Collaborative
* Local Server is always accessible even if main server fails, highly available
* Ex- widely used across all organization for all kinds of projects