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**Cloud Computing**

All the resources (VM- virtual machine, Database, Website, Virtual network, storage etc.) can be stored and shared over the internet, so we can access globally.

**Benefits of Cloud:**

* On demand available
* Less cost
* No maintenance cost

**Cloud Network Type**

* Private Cloud : within company network (intranet)
* Public Cloud: can be access from anywhere (internet)
* Hybrid Cloud: Mix of above two

**Software Service Types**

* IaaS : Infra as a Services (Hardware, Operating System, VM, Database Server, Web Server e.t.c)
* PaaS: Plateform as a Services (.Net, Java, NodeJS, Salesforce etc.)
* SaaS: Software as a Services (Ready to use : Excel , Word etc.)

**Cloud Providers**

* AWS
* MS Azure
* Google Cloud etc.

There are following Tools and Application required:

* Git and GitHub
* .Net Framework
* VM : Virtual Machine
* MS SQL Server – Database
* IIS : Web Server
* PowerShell
* VNet (virtual network)
* CI – CD (Continuous Integration and Continous Deployment)
* MS Azure Portal
* Resource Group
* Storage etc.
* Git and GitHub

Git: is version control tool

GitHub: is version control and distributed portal over the internet (Cloud/Remote)

Environment Setup for Git and GitHub:

* Download and install the git on local machine

URL : https://git-scm.com/download/win

* Create the account on https://github.com portal

Git life cycle:

* Local: Untracked files/code/documents -> git init -> git add -> git commit

Git init : create new repository

Git add –A : add all files to git stage

Git commit : save stages files to git repository

* Remote

Git Commands

cd folder path : change directory

git init : create / initialize local repository

git status : show file status

git add –A : add all files for tracking

git commit –m “message…” : save the file to git repository

git diff filename: show differene / changes

git log : show commit log