

# Module 4: TFS Version Control Concepts

# Types of Version Controls

## **TFVC**

- Centralized Repository
- Gets only one version at a time
- Check-in is to the server directly

## **git**

- Distributed repository
- Clones all versions in the repository
- Local commits

# Workspace

- Add, Edit and Remove
- Advanced
  - Location
    - Local
    - Server
  - Permission
    - Private (Single Developer)
    - Public (Team Collaboration)

# Features

- Get files on the client
  - Check-out – Multiple / Exclusive, Lock
  - Get Latest
  - Get Specific Version based upon ChangeSet Number, Label, Date, Workspace
- Send files back to server
  - Check-in

# Features

- Parallel Working
  - Branching / Merging
  - Multiple Check-out

# Unique Features

- Shelving
- Check-in policies
- Gated Check-in
- Branch Structure Visualization

# TFVS vs Git

TFVC	Git
Centralized	Distributed
workspace	clone
Branching & Merging	Heavy on branching & merging
Check-out file	Check-out branch
	Sync

# Source Control : Git

- Clone
- Commit
- Pull
- Push
- Branch
- Merge