MODULE 3: CONFIGURING TFS

Team Project

- A boundary for defining following
  - Scope of requirements
  - Process to be followed
  - Code – Root of version control
  - Users and Teams
  - Build and Release Scope
 - Quality standards and rules related to code quality

Team Project

Roles
- Groups
- Teams

Work Items
- Requirements
- Tasks
- Test Cases
- Bugs

Source
- Version Control Repositories
- Rules

Build and Release
- Build Definitions
- Artifacts
- Release Definitions

Reports
- Status
- Trends

Classification
- Iterations
- Areas

Lab 2: Team Projects Creation

- Open TFS Web Access using URL (In Chrome) –
  https://tfs-server:8080/tfs/defaultcollection
- Click the button to create new team project
- Create new team project with name Demo 1 and GIT as version control repository
- Create another team project with name Demo 2 and TFVC version control and CMMI process template.

Team Project Collection (TPC)

- Collection of one or multiple team projects for
  - Isolation of data
  - Independent administration
  - Organizational rationalization
- Default Collection is (optionally) created at the time of installation of TFS. We can create additional collections as per strategic decisions
- A database is created for each TPC, isolating its data from other collections

Team Project Collection
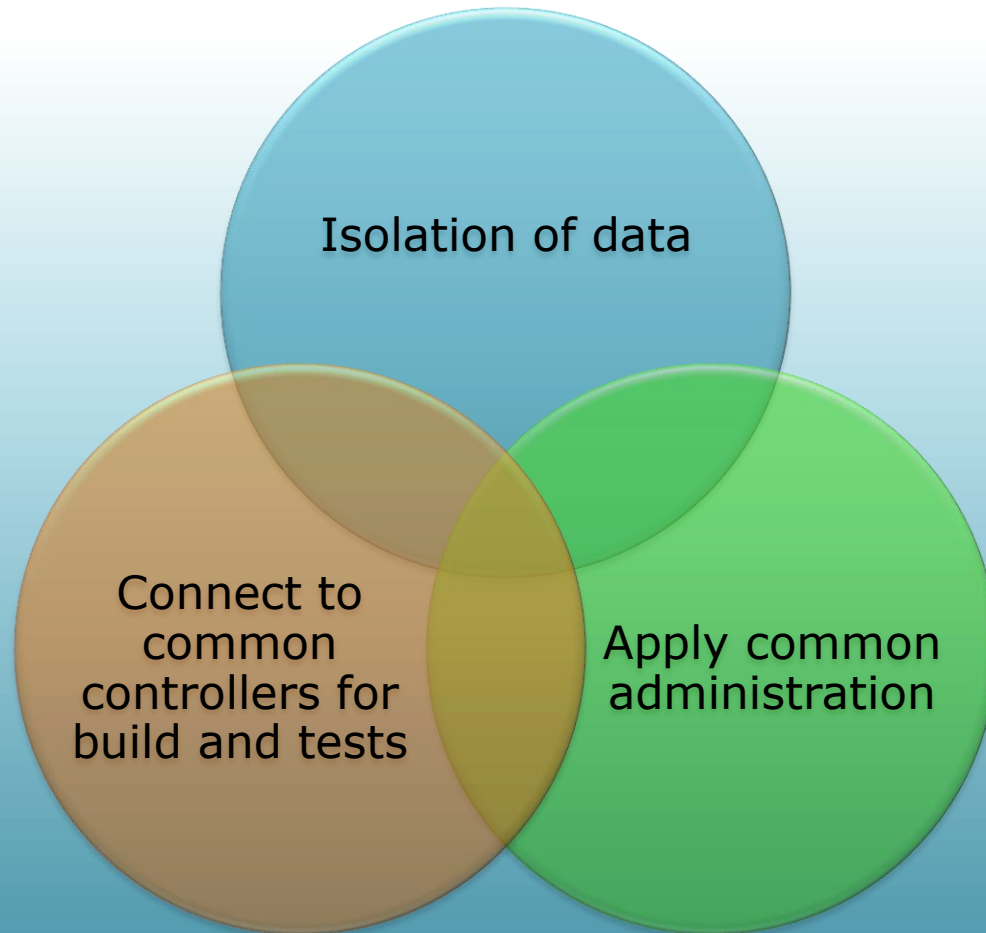
Team Project Collection

General
- Start / Stop Collection
- Administer Groups and Security
- Detach Collection

Status
- Recent Activities
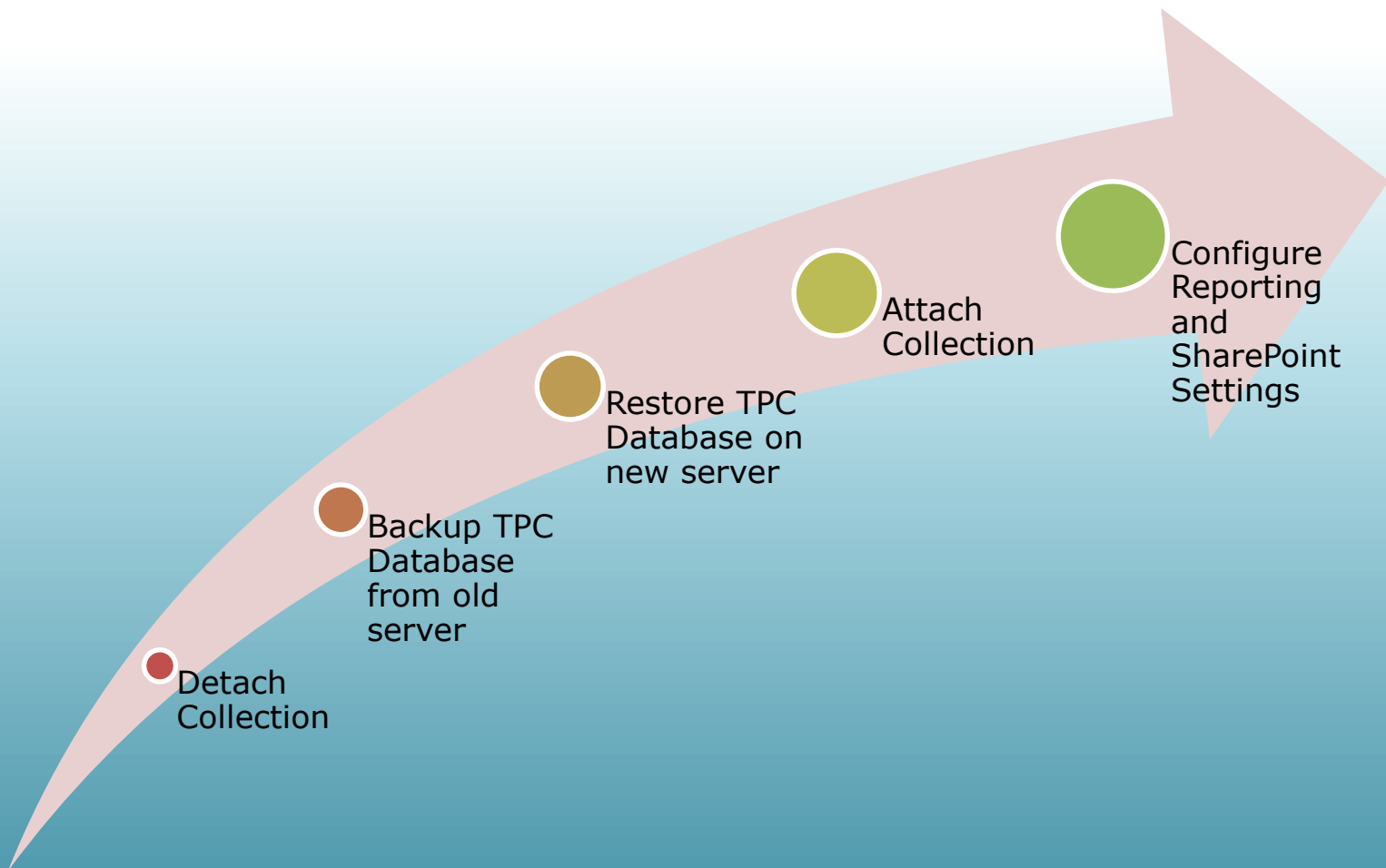
Team Projects
- List of existing Team Projects

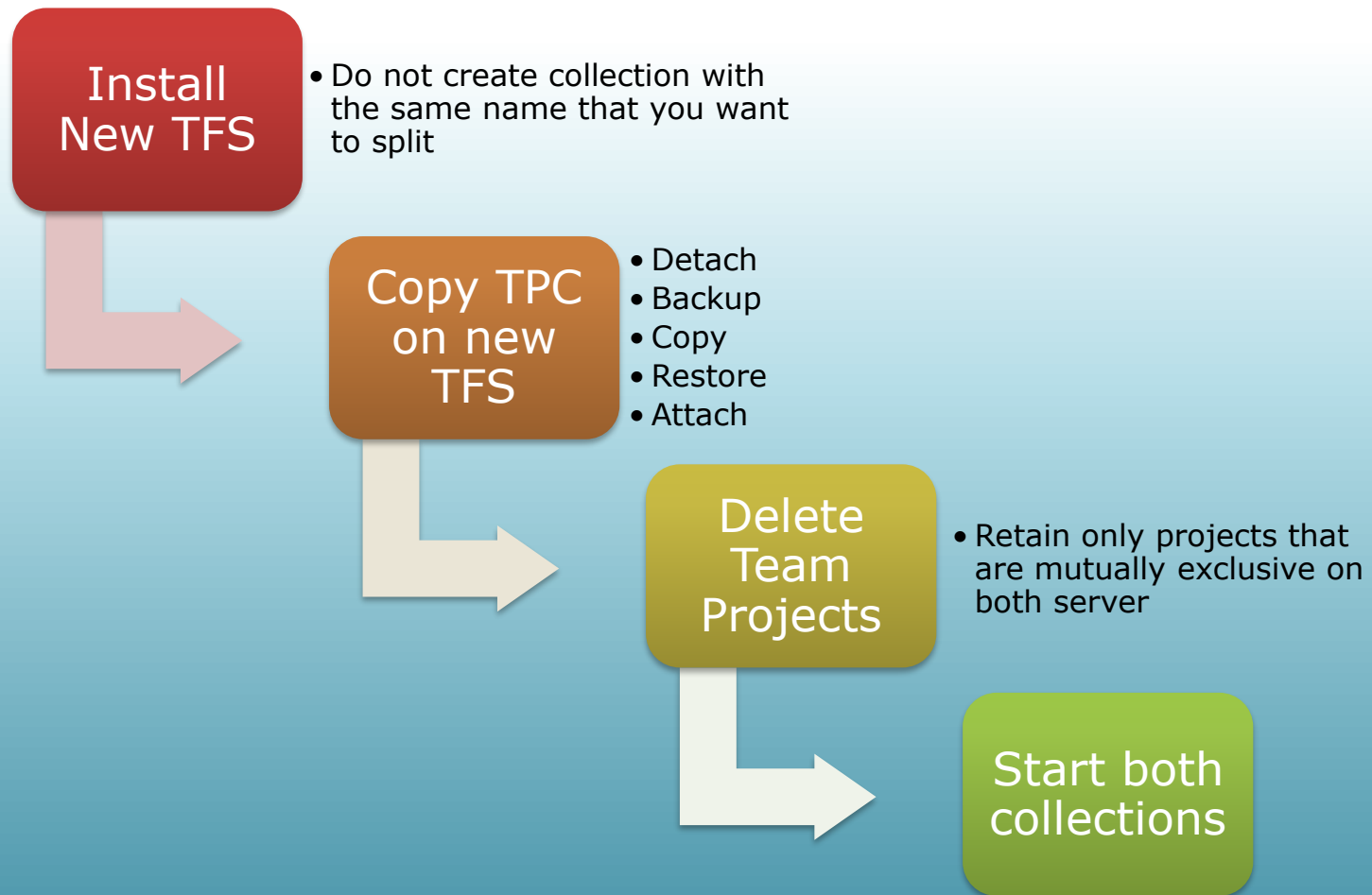## Reports Folder
- View and Change Reports Folder

SharePoint
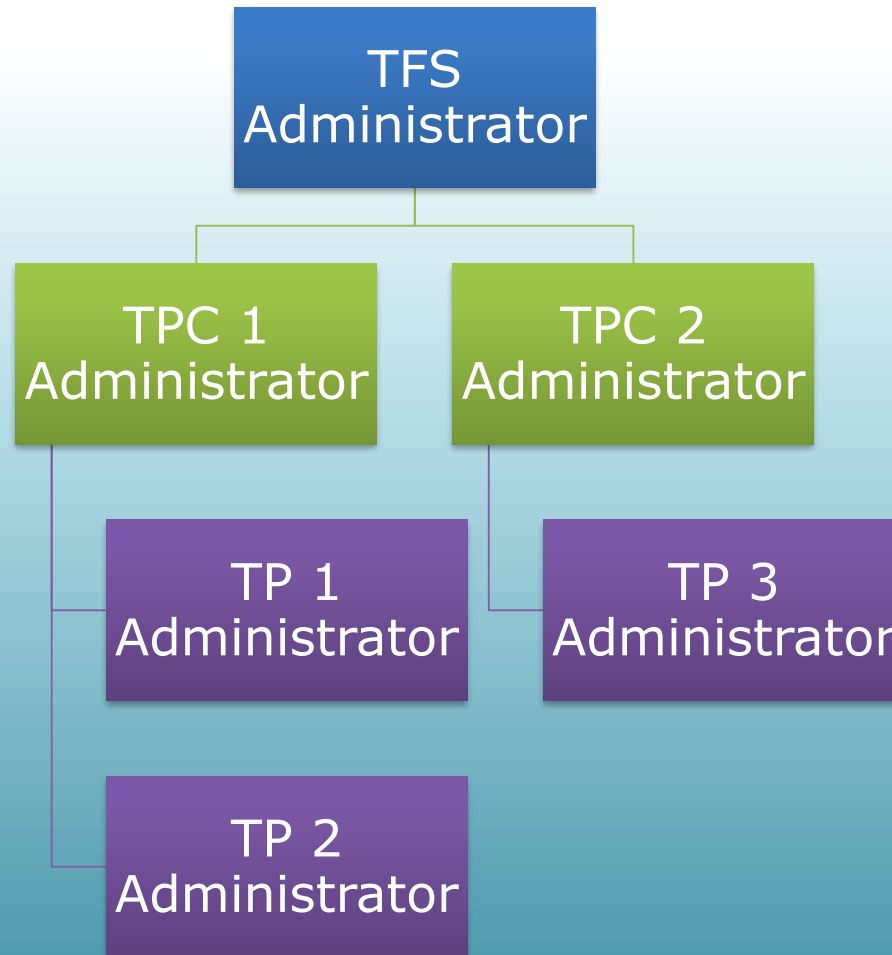- View and Change SharePoint Settings

Move Team Projects Collection

Detach Collection

Backup TPC Database from old server

Restore TPC Database on new server

Attach Collection

Configure Reporting and SharePoint Settings

Splitting Team Projects Collection

Install New TFS
- Do not create collection with the same name that you want to split

Copy TPC on new TFS
- Detach
- Backup
- Copy
- Restore
- Attach

Delete Team Projects
- Retain only projects that are mutually exclusive on both server

Start both collections

Administrator Roles

Lab 3: TPC Management

- Open TFS Admin Console
- Create new TPC
- Create 2 team projects in the newly created TPC
- Detach TPC
- Take backup of TPC database
- Attach TPC
- Restore backed-up TPC database with a different name
- Attach collection with a different name
- Delete 1 TP from first TPC and 2nd TP from other TPC
- Make 2nd TPC online
- Configure reports folder for 2nd TPC

Process Templates

- Agile
- Scrum
- CMMI

- Process Template Manager allows us to export and import process templates. Exported process template is stored in the form of set of XML files.
- Process Template editor is a Visual Studio extension that provides GUI based editing of:
  – Work Item Type Definitions
  – Groups and Teams
  – Areas and Iterations
  – Reports

Manage TFS Security

Version Control,
Build and
Release Security

Areas and Iterations
Security

Groups and Teams

SQL Server Security

Active Directory / Windows Security

Groups

TFS Groups — TFS Admin Console

- TFS Admin
- TFS, Proxy and Web App Service Accounts
- TF Valid Users

TPC Groups — TFS Admin Console / TF Control Panel

- TPC Admin, Build Admin
- Build, Proxy, Test and TPC Service Accounts
- TPC Valid Users

Project Groups — TF Control Panel

- Project, Build Admin
- Contributors
- Readers

Web Access Permissions

Stakeholder
- Create and modify all work items
- Create and save queries on all work items under their My Queries folder
- Create and modify work items using Team Foundation clients

Basic
- Basic & Advanced backlog and sprint planning tools
- Request and manage feedback 1
- Chart viewing & Chart authoring
- Code: Git and TFVC
- Build
- Administer account 2
- Advanced home page 3
- Author release pipelines 4
- Advanced portfolio management
- Team rooms 5
- Analyze test results and manage machine groups

VS Enterprise
- All as Basic
- Test Plan
- Extensions under plan

Team

Collection of people for a specific area.

- Default team consists of all members of team project
- Non-Default teams created for better management
- An area can be bound to the team
- Used for SCRUM planning with capacity balancing and running
- Set Security at the level of

Rename a Team Project

- Team project can be renamed from web access.
- Open the Organization Setting and select projects node.
- Select the project to rename.
- From … selector options select the Rename option and change the name of team project.
- Reconnect to the newly named team project from all clients. You may also have to reconnect to version control repository

Delete a team project

- Team project can be deleted from web access or TFS Admin Console.
- Open the Organization Setting and select projects node.
- Select the project to delete.
- From … selector options select the Delete option and confirm when asked.

- In TFS Admin Console select the TPC which contains the team project to be deleted. Select Team Projects tab.
- Select the Team Project that is to be deleted, right click on it and from context menu select Delete. Confirm.

Lab 4: Securing TFS

- Open TFS Admin Console
- Add users in TFS Admin and TPC Admin (Default TPC) groups
- Open TFS Web Access
- Go to the page of TPC settings and open the page of Web Access
- Make VS Enterprise as the default web access
- Open the team project Demo 1
- In settings open security and add User 1 and User 2 to the "Demo 1 Team". View that this team is a member of Contributors group of that team project.
- Repeat the above step for the TP Demo 2 also
- From Visual Studio add some code to Demo 2. From Source Control Explorer set permissions to files and folders under the source control.
- Add the User 1 in the Build Administrators group.