

MODULE 2: PLANNING AND DEPLOYING TFS

Installation Options

Installation Type	Max. No. of Concurrent Users Supported	Hardware (Suggested)	Software Platform (Suggested)	Used in
Basic	5	64 Bit, 4GB, 500MB	Win 10 / Win Server 2016 / Win 2012 (Installs SQL Express)	Demonstrations or Trial
Single Server	250	64 Bit / Quad Core, 8GB, 1TB	Win Server 2016, SQL 2014 / 2016	Small Shops, Departmental
Dual Server	500			Medium Size Org.
- Data Tier		Quad Core, 8GB, 1TB	Win Server 2016, SQL 2014 / 2016	
- App Tier		64 Bit, 8GB, 500GB	Win Server 2016, IIS	
Multiple	2000+			Large Organizations
- Data Tier		Cluster of Quad Core, 8GB, 1TB	Win Server 2016, SQL 2014 / 2016	
- App Tier		Cluster of Quad Core, 8GB, 1TB	Win Server 2016, SQL 2014 / 2016 Reporting Service	

TFS – Supported OS

TFS Version	Supported server operating systems
TFS 2018	Windows Server 2016 Windows Server 2012 R2 (Essentials, Standard, Datacenter) Windows Server 2012 (Essentials, Standard, Datacenter)
TFS 2017	Windows Server 2016 Windows Server 2012 R2 (Essentials, Standard, Datacenter) Windows Server 2012 (Essentials, Standard, Datacenter) Windows Server 2008 R2 (minimum SP1) (Standard, Enterprise, Datacenter)
TFS 2015	Windows Server 2016 Windows Server 2012 R2 (Essentials, Standard, Datacenter) Windows Server 2012 (Essentials, Standard, Datacenter) Windows Server 2008 R2 (minimum SP1) (Standard, Enterprise, Datacenter)

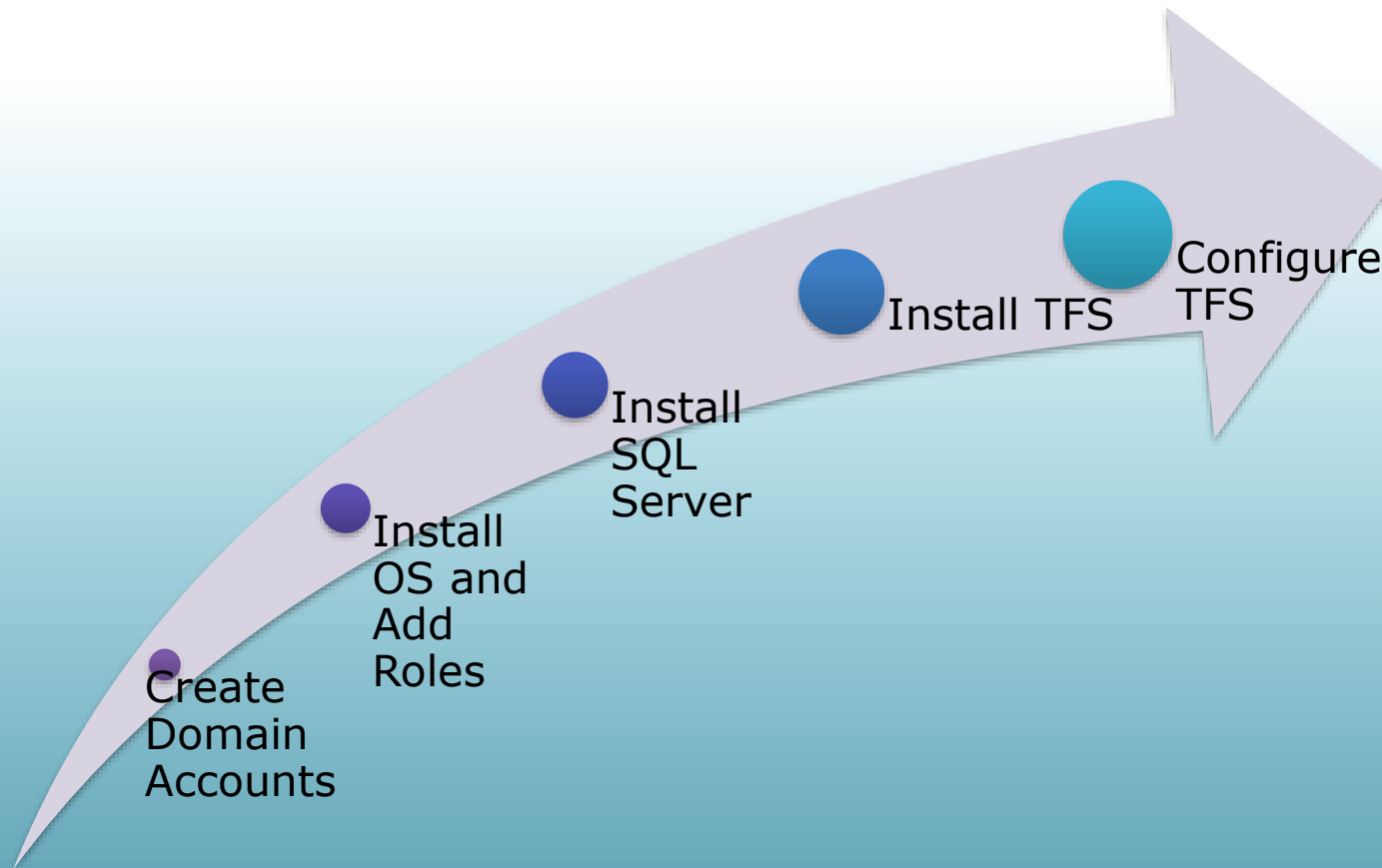
SQL Server versions that support TFS

TFS version	Support SQL Server version
TFS 2018	SQL Server 2017 SQL Server 2016 (minimum SP1)
TFS 2017 Update 1	SQL Server 2016 (minimum SP1) SQL Server 2014
TFS 2017	SQL Server 2016 SQL Server 2014
TFS 2015 Update 3	SQL Server 2016 SQL Server 2014 SQL Server 2012 (minimum SP1)
TFS 2015	SQL Server 2014 SQL Server 2012 (minimum SP1)

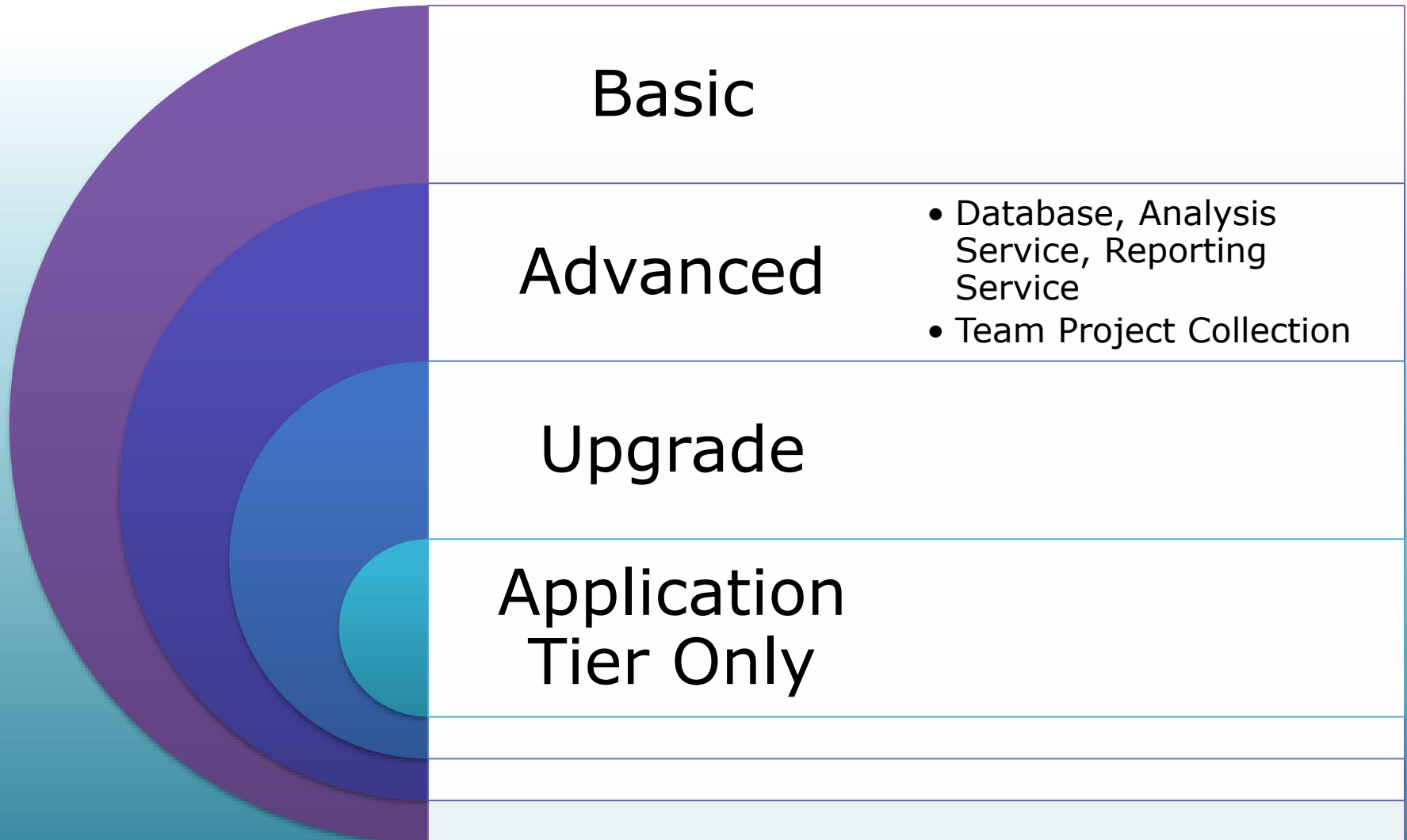
Suggested Accounts

- TFS Security depends upon Active Directory Domain or Windows Security for user accounts.
- These accounts are suggested but are not compulsory
- TfsSetup (Administrator)
- TfsService
- TfsReports (Optional)
- TfsProxy (Local Administrator) (Optional)

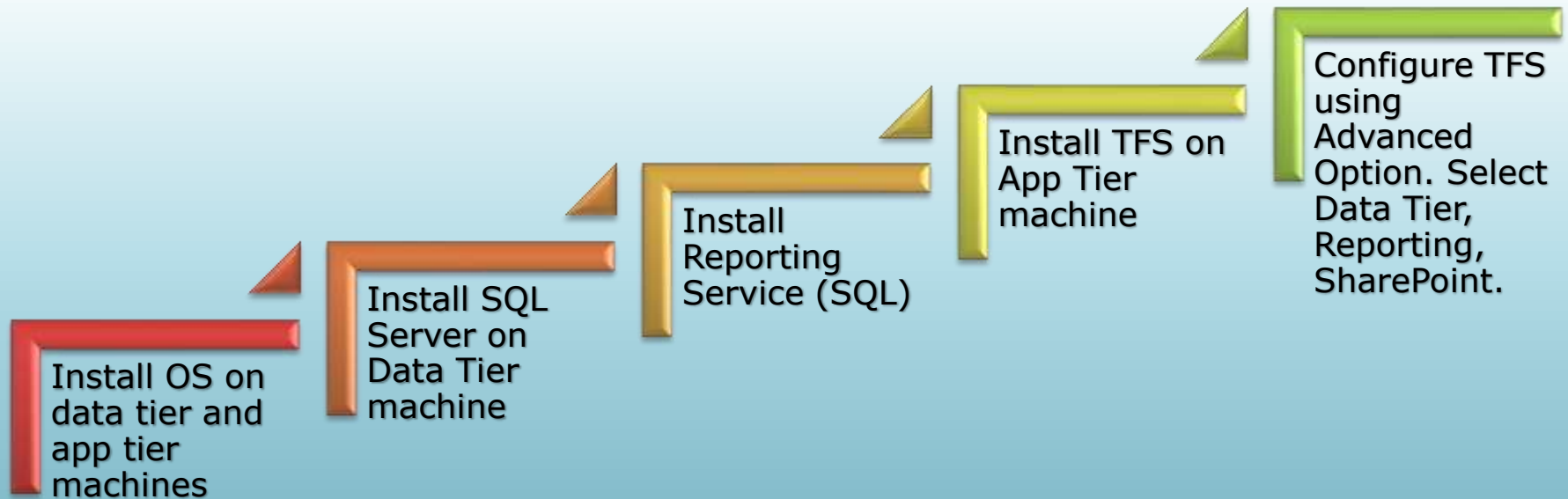
Typical Installation Process



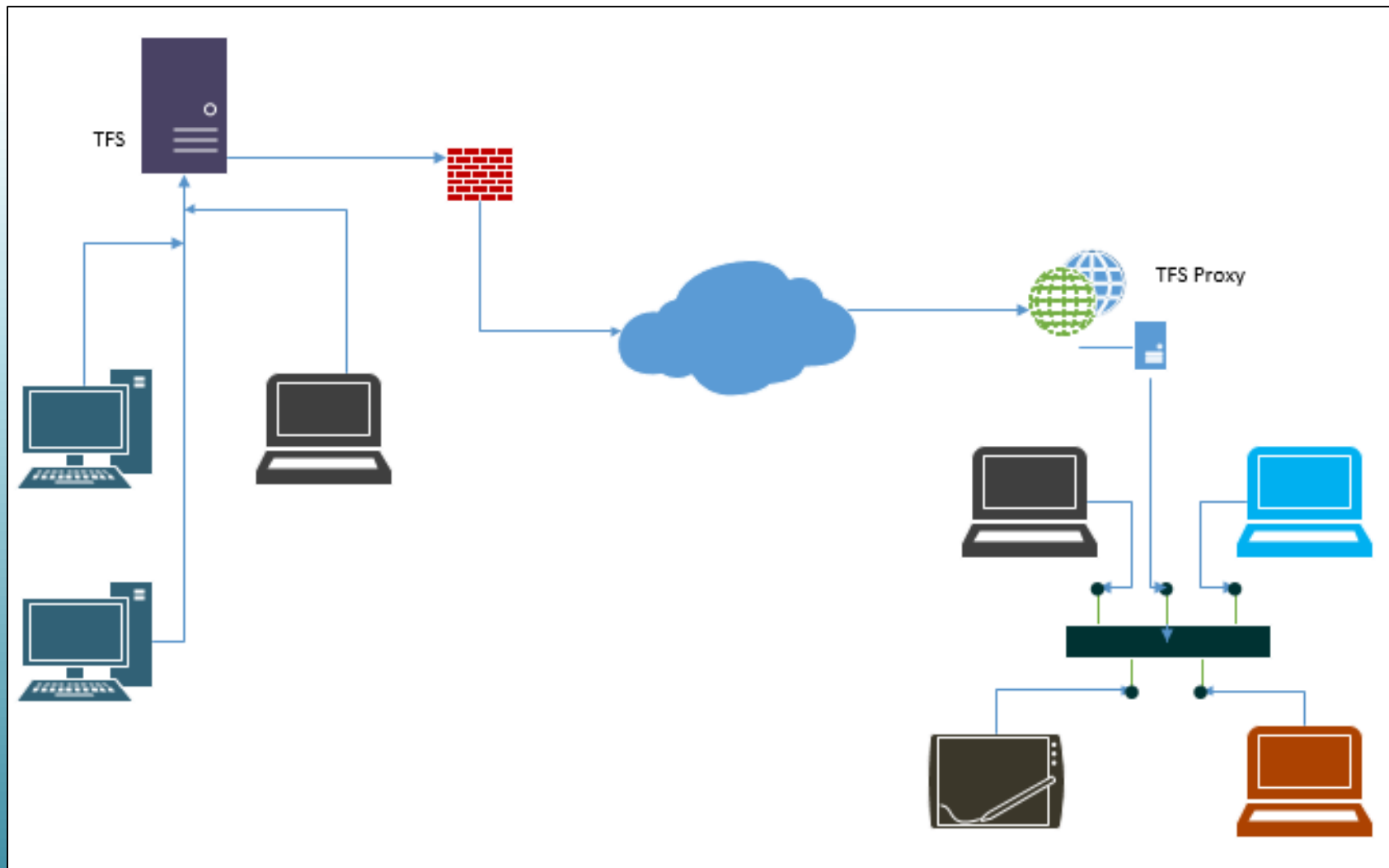
TFS 2017 – Configuration Options



Install and Configure TFS 2017 on Multiple Servers



Version Control Proxy



Version Control Proxy

Main use is for caching of source on the remote site. Cache is stored on filesystem

IIS is a prerequisite as Version Control Proxy runs as web service.

TFS is required to be online for checking version and for authorization

Can connect to multiple TFS at a time

Install Version Control Proxy

Install OS

- Windows Server 2016 (64 Bit)
- Windows Server 2012

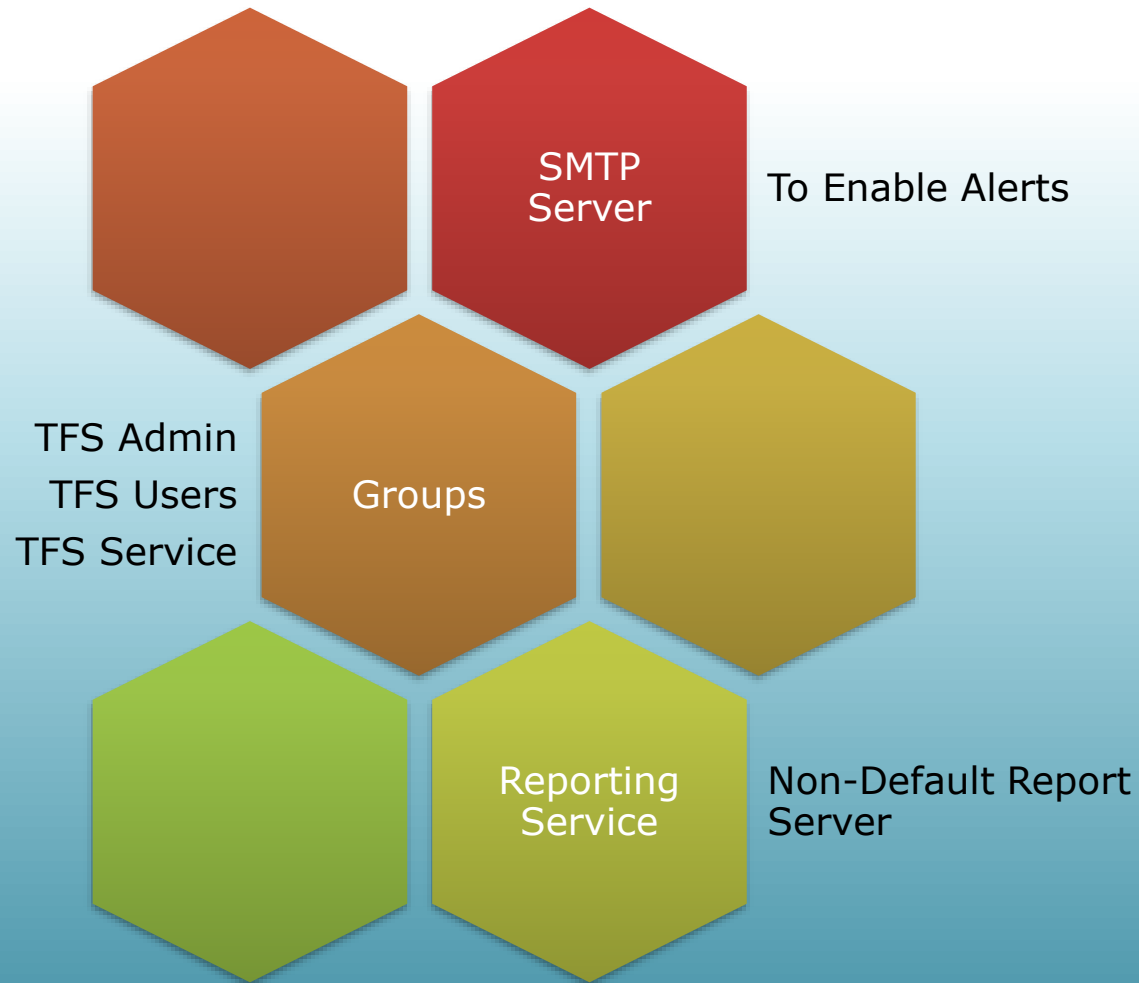
Install Proxy

- Use TFS Installable

Configure Proxy

- Cache Strategy
- TFS to Connect

Configure TFS 2017 App Tier



Installing Clients

- Team Explorer – Installed as part of Visual Studio
- Team Explorer Everywhere – Installed as Eclipse plug-in from Eclipse Marketplace
- Office TFS Integration – Separate Download and installs

Lab 1: Prepare and Install TFS

- Add User Accounts
 - TfsService
 - TfsReports
 - User1, User2
- Change identities of SQL Services
- Configure SQL Reporting Service
 - User Identity Account
 - Database
 - URLs
 - Encryption Key Backup
- Install TFS
- Configure TFS
 - Advanced Mode