

MODULE 1- INTRODUCTION TO TEAM FOUNDATION SERVER

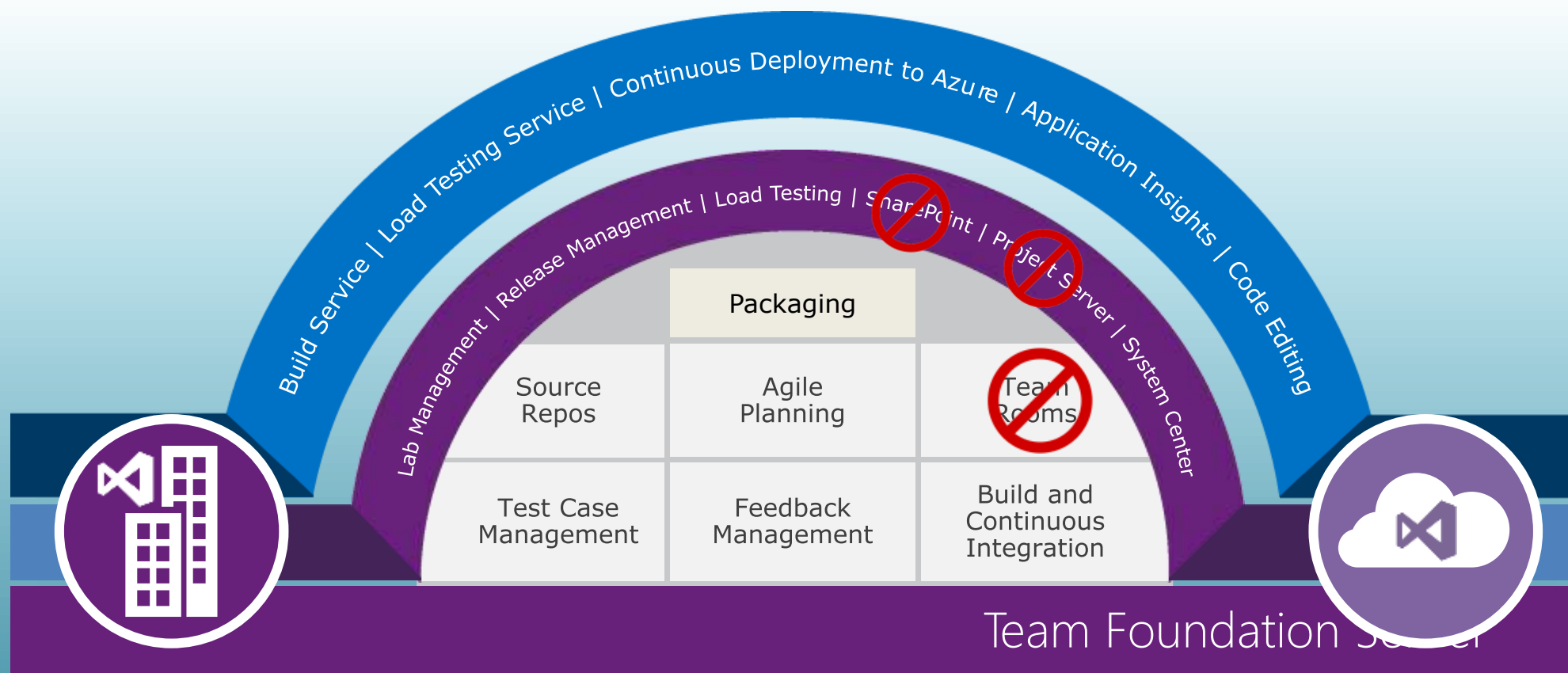
Subodh Sohoni



Team Foundation Server - Services



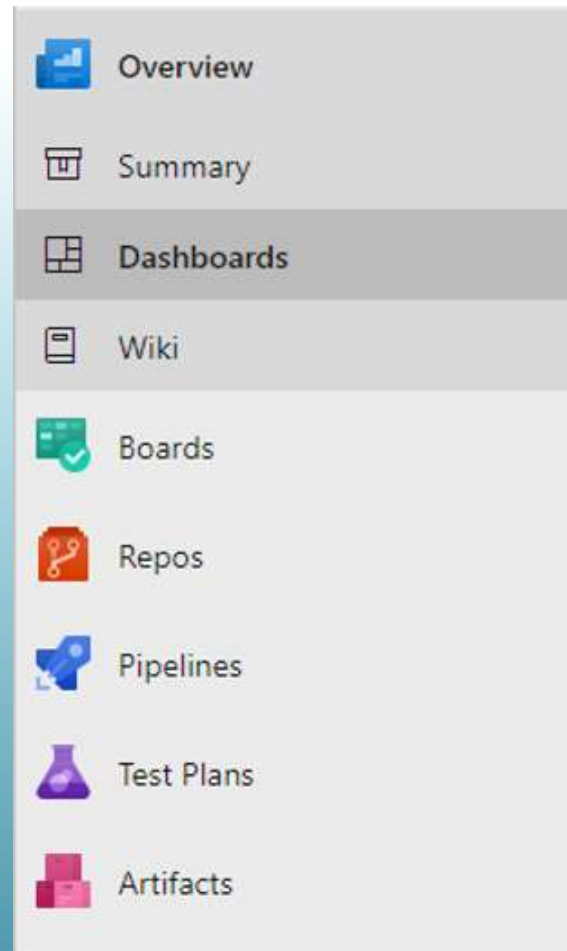
Team Foundation Server - Services



Team Foundation Server Versions

Product name	Form	Release year
Visual Studio 2005 Team System	On-premises	2005
Visual Studio Team System 2008	On-premises	2008
Team Foundation Server 2010	On-premises	2010
Team Foundation Service Preview	Cloud	2012
Team Foundation Server 2012	On-premises	2012
Visual Studio Online	Cloud	2013
Team Foundation Server 2013	On-premises	2013
Team Foundation Server 2015	On-premises	2015
Visual Studio Team Services	Cloud	2016
Team Foundation Server 2017	On-premises	2017
Team Foundation Server 2018	On-premises	2017
Azure DevOps	Cloud	2018
Azure DevOps Server (v.Next)	On-premises	2019

Team Foundation Server - Services



TFS 2017 SKU Variants

- Team Foundation Server (Standard)
 - For teams that are large
 - Integrates with Active Directory
- Team Foundation Server Express
 - Supports small teams without the need of Reporting service
 - Uses SQL Express instead of full SQL Server
 - Free for 5 users

TFS and Azure DevOps (VSTS)

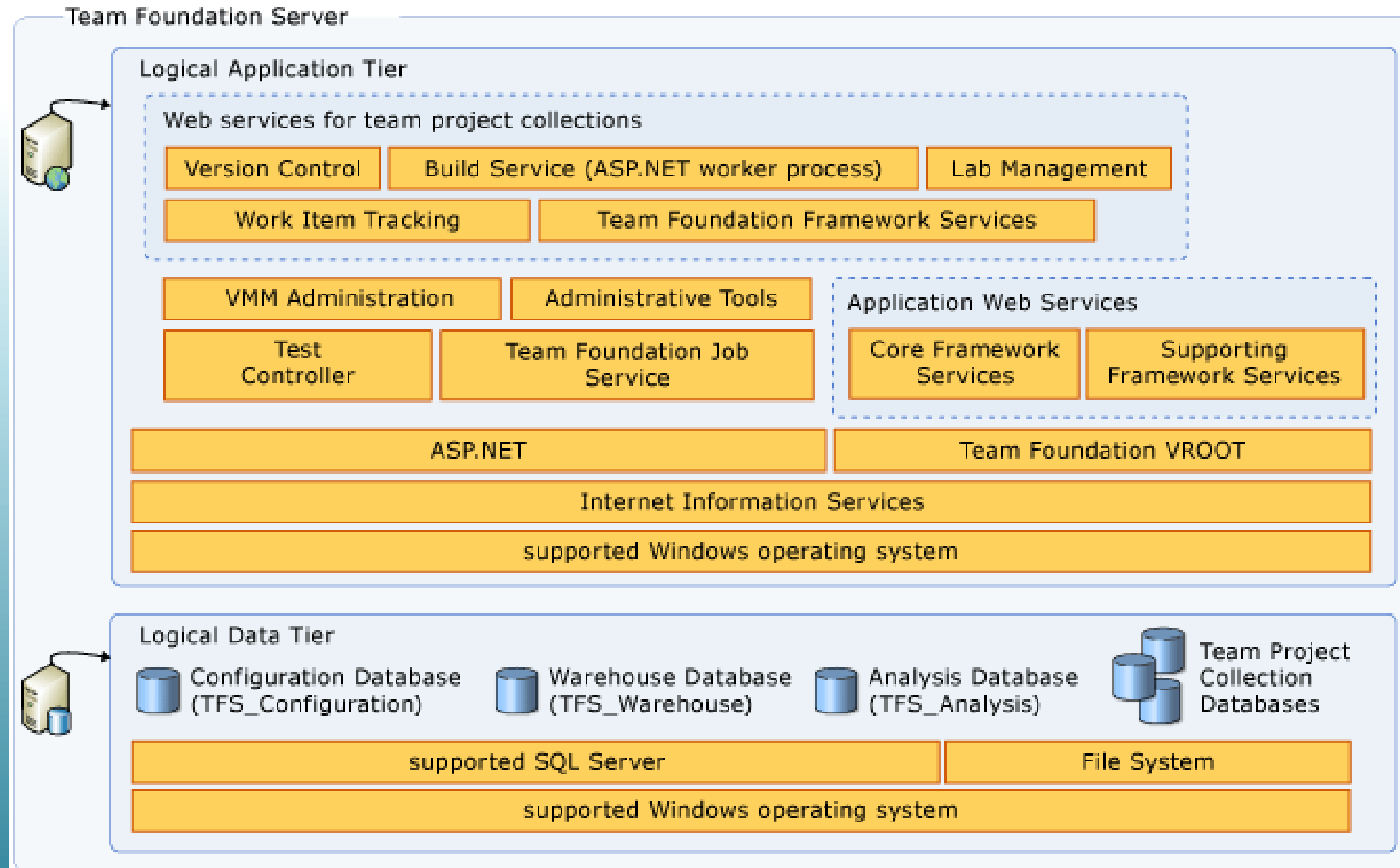
TFS

- On Premises
- Hardware and TFS Software to be managed by us
- Maintenance is our responsibility (Database Back-up, restore in case of failure, Availability, Performance etc.)
- Gives us full control over customization of process
- Easy to create in process components to extend the services of TFS.
- Requires CALs for users who do not have Visual Studio Subscription

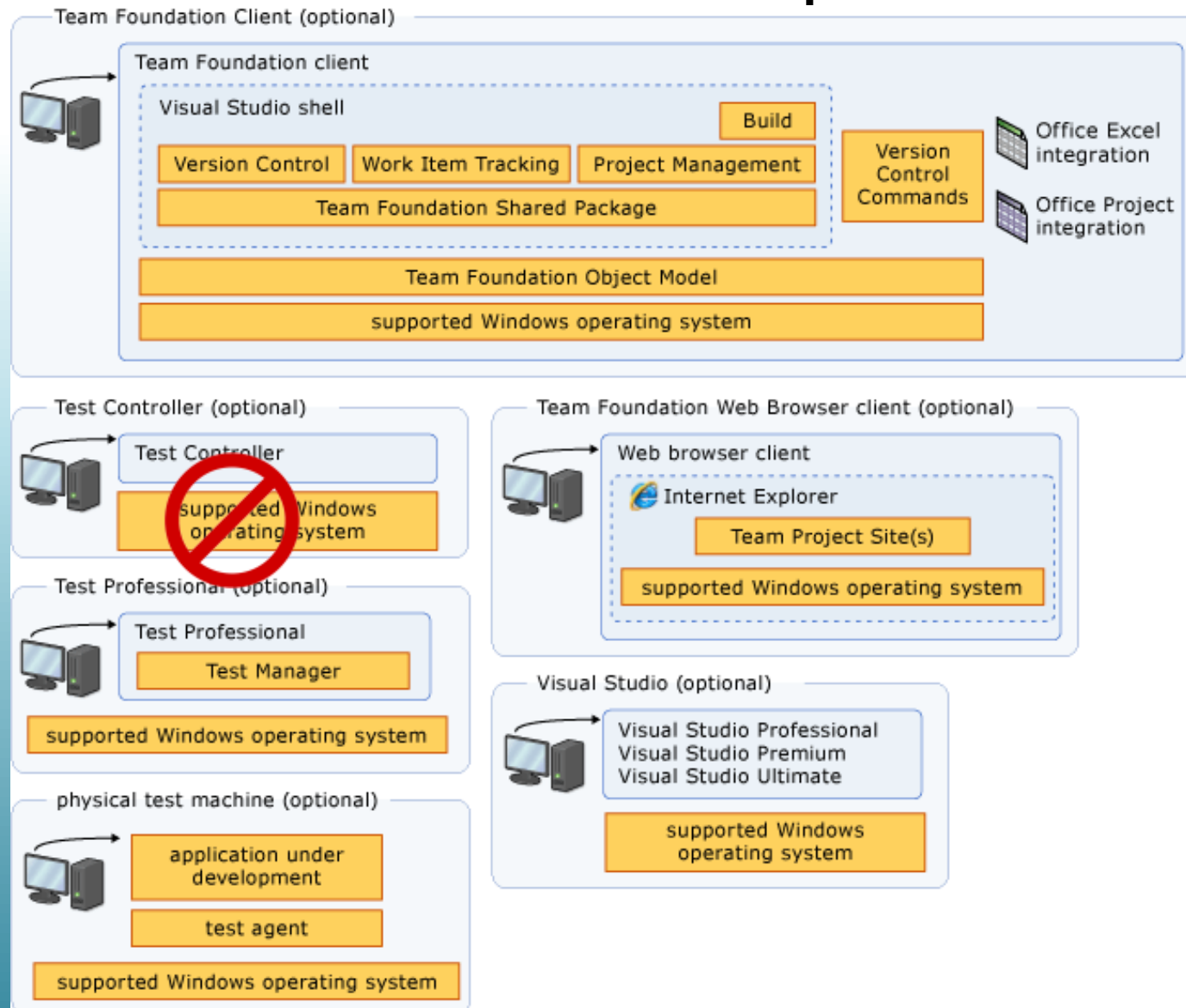
Azure DevOps (VSTS)

- Cloud Offering (SaaS) from Azure
- No hardware and software management required.
- No maintenance required to be done by us.
- Limited control over customization of process
- Complicated out of process components to extend the services.
- Subscription to use services need to be purchased for every user (First 5 are free)

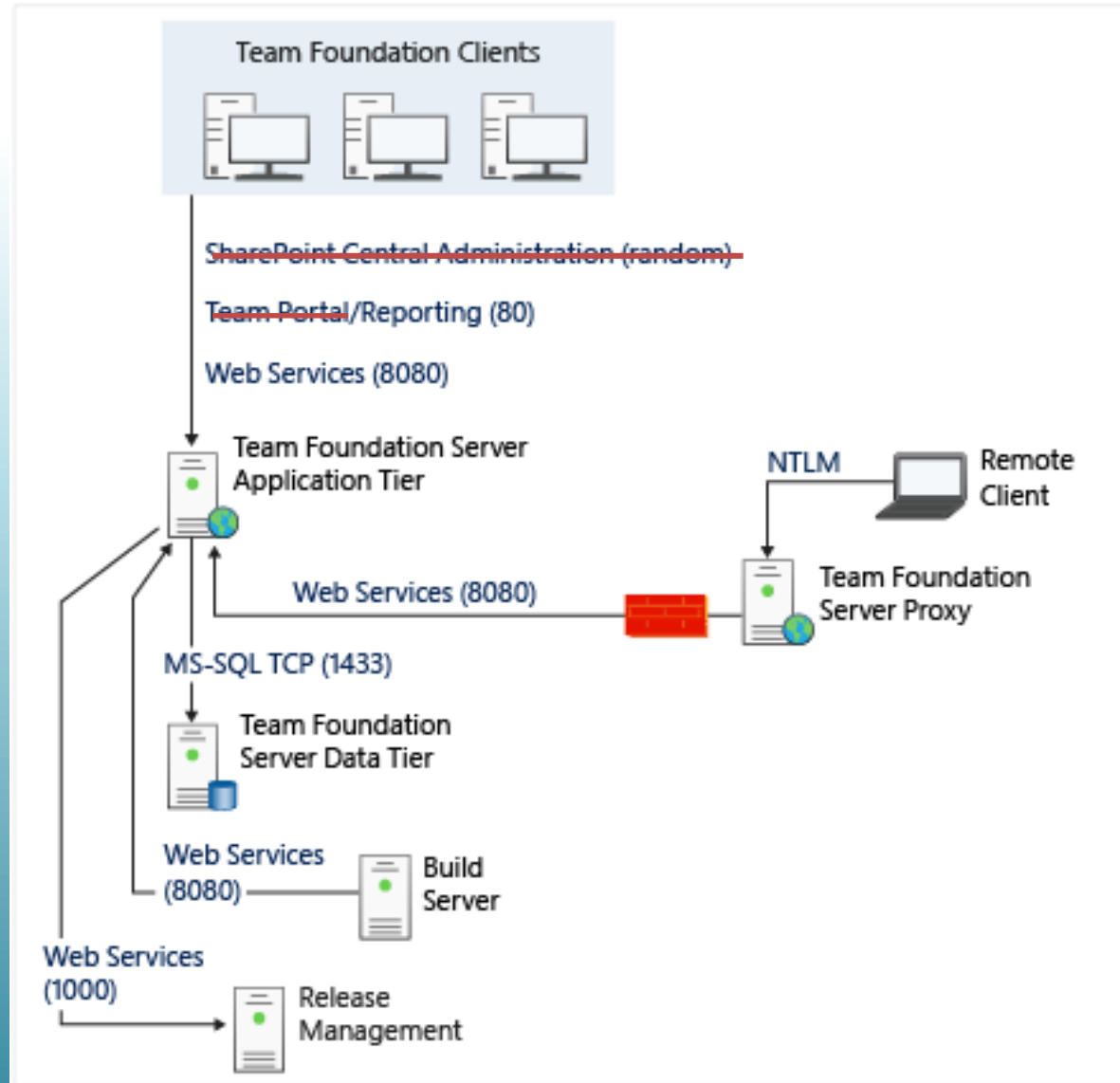
Logical Structure of TFS



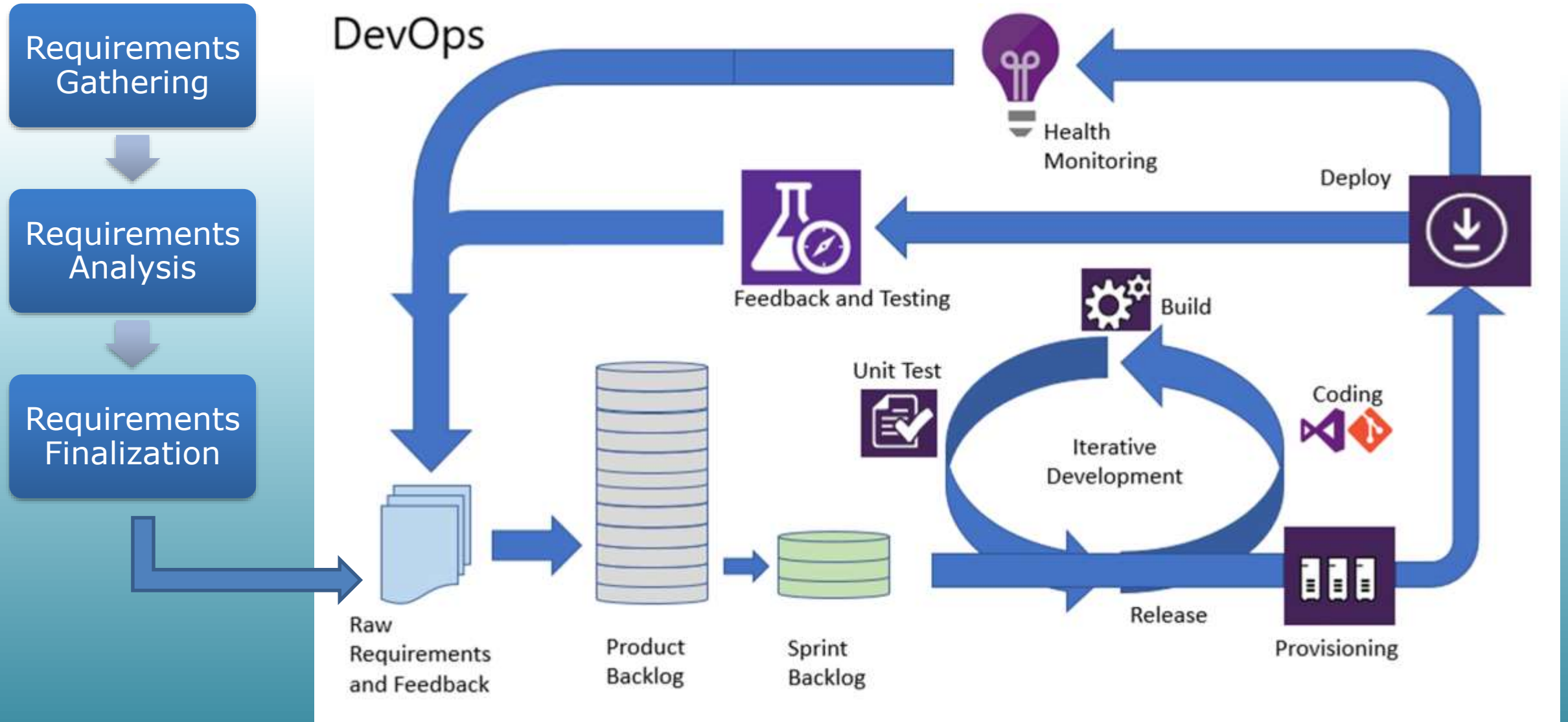
TFS Additional Components



TFS – Networking and Ports



TFS coverage of ALM and DevOps



TFS Administrator Responsibilities

- Design, Install, Configure and Customize TFS
- Upgrade and Update TFS time to time as needed
- Ensure Availability of TFS for uninterrupted development by teams
- Tune-up hardware and software for optimum performance
- Secure TFS with proper permissions through groups
- Delegate responsibility of project administration

Tools and Commands for TFS Administration

- TFS Admin Console
- TFS Process Editor
- Git commands
- TFVC commands
- TFSConfig
- TFSDelProject
- TFSSecurity
- TFSServiceControl
- witadmin (work item tracking)

Quiz

- Name the services offered by TFS
- Which port is used by the application tier web services of TFS?
- List any three important activities to be played by the TFS Administrator.

Quiz Answers

- Name the services offered by TFS
 - Version Control
 - Work Item Tracking / Agile Board / Project Management
 - Pipelines – Build and Release
 - Test Case Management
 - Packaging the artifacts
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 - 8080 by default (Can be changed if desired)
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- Which port is used by the application tier web services of TFS?
 - 8080 by default (Can be changed if desired)
- List any three important activities to be played by the TFS Administrator.
 - Install, Configure and Maintain TFS
 - Secure TFS
 - Ensure availability and optimum performance