

# Release Automation 6.3 & Team Foundation Server Integration

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# Scope

**Demonstrate the Release Automation Integration with  
Microsoft Team Foundation Server**

# Team Foundation Server (TFS)

TFS comes in two offerings

- Standalone or On Premise
- Visual Studio Team Services (VSTS)

# Visual Studio Team Services – Pros and Cons

## PROs

- Up-to-Date
- High Uptime
- Maintenance TFS related **IT infrastructure is no more required.**
- Online TFS is **accessible from anywhere**
- **Cost Less**

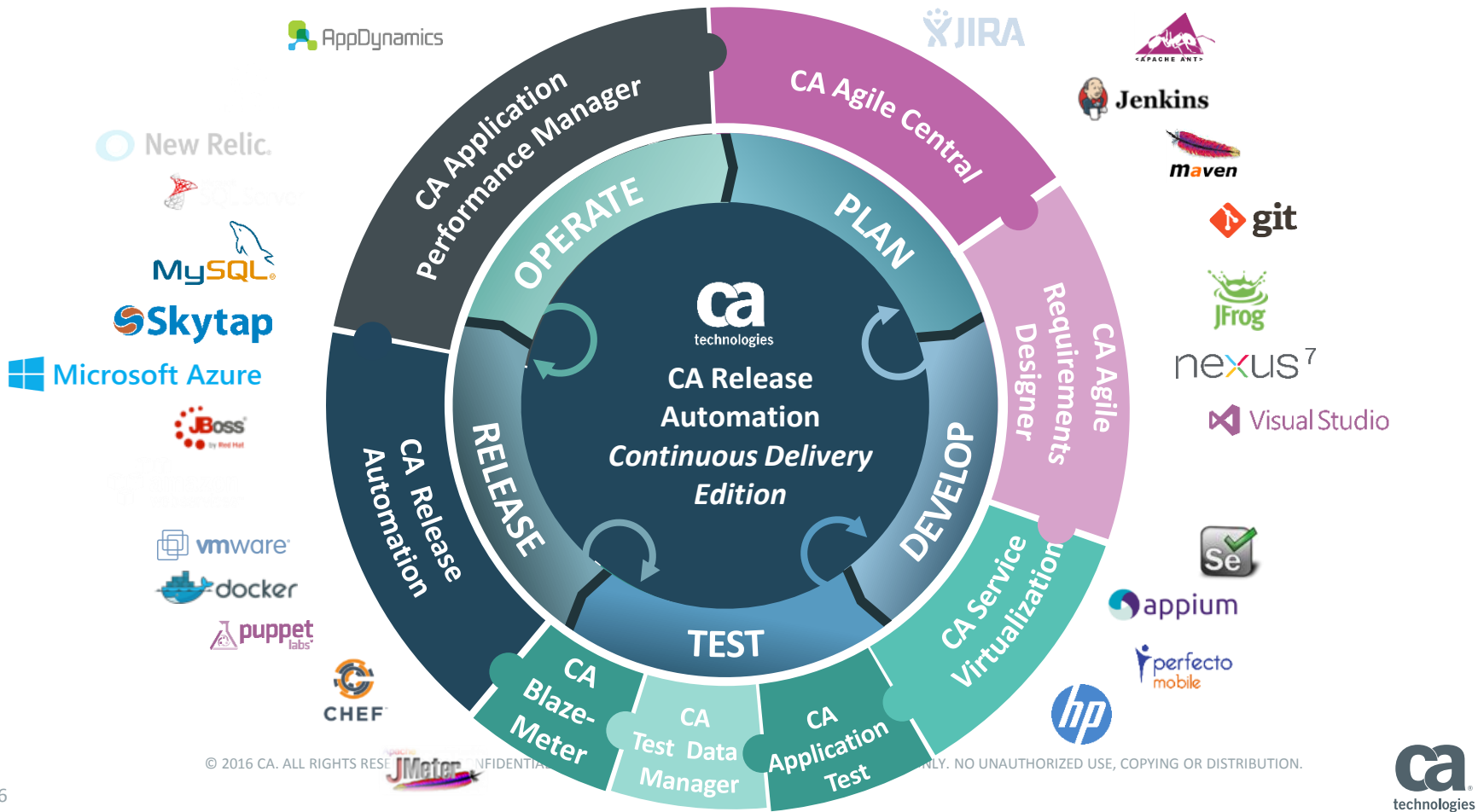
## CONs

- Ability to customize the process template.
- No SharePoint integration
- No Data warehouse reporting

# Release Automation - Features

- Express Mode
- Integration with ALM Tools like Agile Central (Rally), Jira etc.
- Continuous Integration Tools like Jenkins, TFS etc.
- Ticketing System like Service Now
- Testing tools like DevTest, HP ALM etc.
- Manifest Driven Deployment
- Shared Components, Parameters and Tokens
- Dashboard -Reports and Widgets
- Deployment Plan Enhancements
- LDAP Authentication

# Open, Integrated Continuous Delivery



# Sample DevOps Model




# Release Automation Integration with TFS


- Download the Plugin
- Installation
- Add Service End Point
- RA Configuration
- Add in the Build Step

# Release Automation Integration



Download the CA- RA - TFS Plugin from Microsoft Market Place [Link](#)

 Visual Studio | Marketplace

Visual Studio Team Services > Build and release > CA Release Automation



## CA Release Automation

CA Technologies |  25 installs |  (4)

Run an existing Deployment Plan or create and run a Deployment Plan out of Deployment Template


InstallDownload

Click **Install** for Team Services and **Download** for Team Foundation Server.

# Release Automation Integration

Navigate to Manage Extension [Link](#)

## Manage Extensions

	Name	Version	Updated
	<b>CA Release Automation</b> Run an existing Deployment Plan or create and run a Deploymen...	1.1.0	2 days ago

# Release Automation Integration – Service End Point

Navigate to TFS Admin Page [Link](#)

The screenshot displays the TFS Admin interface. At the top, a blue navigation bar shows the breadcrumb path: Control panel > DefaultCollection > TFSDemoProject > TFSDemoProject Team. Below this, a series of tabs includes Overview, Security, Alerts, Version Control, Service Hooks, Services (which is active), and Test. The main content area is titled 'Endpoints' and 'XAML Build Services'. On the left, there is a '+ New Service Endpoint' button and a search bar labeled 'Search Services...'. A list of endpoints shows 'RA' selected. The right pane displays details for the 'RA' endpoint, including its type, creator, and connection method. It also lists available actions: 'Update service configuration' and 'Disconnect'.

Control panel > DefaultCollection > TFSDemoProject > TFSDemoProject Team

Overview Security Alerts Version Control Service Hooks **Services** Test

**Endpoints** XAML Build Services

+ New Service Endpoint ▾

Search Services... 🔍

RA

Endpoint: RA

**INFORMATION**

Type: Ra

Created by Manjunath Narayan, Manjunath

Connecting to service using credentials

**ACTIONS**

List of actions that can be performed on this service:

[Update service configuration](#)

[Disconnect](#)

# Release Automation Integration - RA Server Configuration

UPDATE AUTHENTICATION FOR RA ✕

Connection Name

RA

Server URL

http://narma13-u182330:8080/

Username

superuser i

Password

••••• i

Server URL i.e. http://my-server:8080, https://my-secured-server:8443 etc...

OK

Close

# Release Automation Integration – Build Definition

Visual Studio Team Foundation Server 2015 / RATFSProjectDemo

HOME CODE WORK BUILD TEST RELEASE

Explorer

We've built a new, scriptable build system that's web-based and cross-platform. Here's how to [get started](#).

Definitions / TFSBuildDef-ExistingDeploymentPlan | Builds

Build Options Repository Variables Triggers

Save Queue build... Undo

+ Add build step...

Visual Studio Build  
Build solution `$/RATFSProjectDemo/WingtipsToys`

CA Release Automation  
Run Deployment Plan `TfsDeploy`

My favorites

Team favorites

Build definitions

- All build definitions
- Calculator
- RATFSBuildDef
- TFSBuildDef-ExistingDeploymentPlan**

XAML definitions

- All XAML definitions

ADD TASKS

- All
- Build
- Utility
- Test
- Package
- Deploy**

- Azure Cloud Service Deployment  
Deploy an Azure Cloud Service
- Azure File Copy  
Copy files to Azure blob or VM(s)
- Azure PowerShell  
Run a PowerShell script within an Azure environment
- Azure Resource Group Deployment  
Deploy, start, stop, delete Azure Resource Groups
- Azure SQL Database Deployment  
Deploy Azure SQL DB using DACPAC
- Azure Web App Deployment  
Publish a Visual Studio Web project to a Microsoft Azure Web App using Web Deploy
- CA Release Automation  
Run RA Deployment Plan**
- PowerShell on Target Machines  
Execute PowerShell scripts on remote machine(s)

# Demonstration

**Reference:**

**DOCOPS: [LINK](#)**

**CA Community:**

**Version1: [LINK](#)**

**Version2: [LINK](#)**



## **Manjunath Narayan**

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# Magic Quadrant for Application Release Automation



<https://www.ca.com/us/company/newsroom/press-releases/2016/ca-technologies-positioned-as-a-leader-in-the-2016-gartner-magic-quadrant-for-application-release-automation.html>