

Automating the Deployment of Our Application



Gill Cleeren

ARCHITECT

@gillcleeren www.snowball.be



Overview



An overview of VSTS

**Setting up continuous
integration with VSTS**

**Automating the deployment to
Azure App Service**



An Overview of VSTS



Visual Studio Team Services



Integrated
dev team
environment



Complete
DevOps solution



Not bound to
technology



Based on Azure



VSTS Components

Source control

Planning

CI

**Release
management**

Testing

**And so many
more!**



Demo

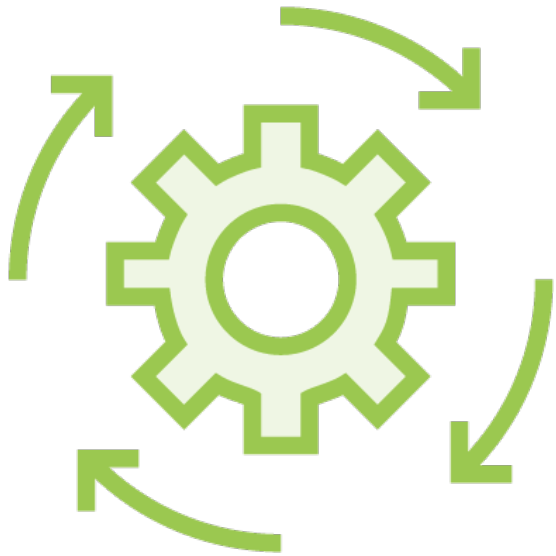


An overview of
Visual Studio Team Services



Setting up Continuous Integration





Code will be integrated continuously

Verified by automated build

Detect problems early

VSTS and CI



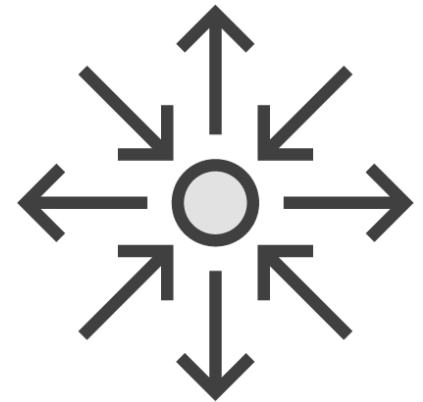
**Builds linked to
test, work items,
check-ins...**



Hosted agents

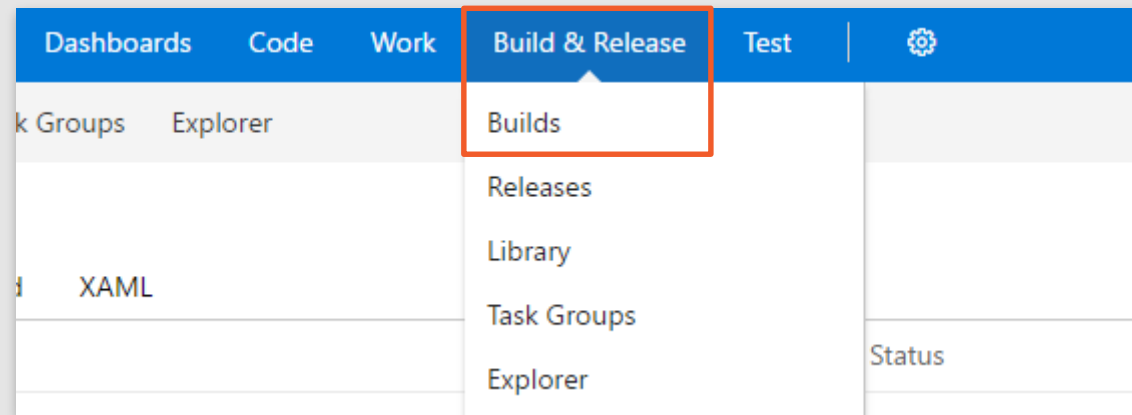


**Diagnostics and
reports**



**Support for
many platforms**

Builds and Releases



Setting Up a Build Definition


×


Create new build definition


Select a template


Build


Deployment

**Universal Windows Platform**
Build Universal Windows Platform applications using Visual Studio. This template requires that Visual Studio and the Universal templates are installed on

**Visual Studio**
Build and run tests using Visual Studio. This template requires that Visual Studio be installed on the build agent.

**Xamarin.Android**
Build an Android app and Xamarin.UITest assembly. Test with Xamarin Test Cloud.

**Xamarin.iOS**
Build a Xamarin.iOS app and Xamarin.UITest assembly. Test with Xamarin Test Cloud. This template requires a Mac OS build agent.

**Xcode**
Build and test an Xcode workspace. This template requires a Mac OS build agent.


Empty
Start with a definition that has no steps.

Next >

Cancel



Build Steps

 BethanysPieShop


Dashboards


Code





Work

Build & Release

Test



Search work items 

Builds



Releases


Library

Task Groups

Deployment Groups*

Explorer

 | 

Search 

My favorites

Team favorites

Build definitions

[All build definitions](#)

BethanysPieShop - CI Build

XAML definitions

[All XAML definitions](#)

Definitions / BethanysPieShop - CI Build | Builds

Build

Options

Repository




Variables


Triggers


General


Retention


History


 Save  Queue build...  Undo


 Add build step...


 Run dotnet
Command Line

 Run dotnet
Command Line

 Archive files
Archive Files

 Publish Artifact: drop
Publish Build Artifacts



Run dotnet 

Version 1.*

Tool

dotnet

Arguments

restore

Advanced

Control Options

Enabled

☒

Continue on error



☐

Always run

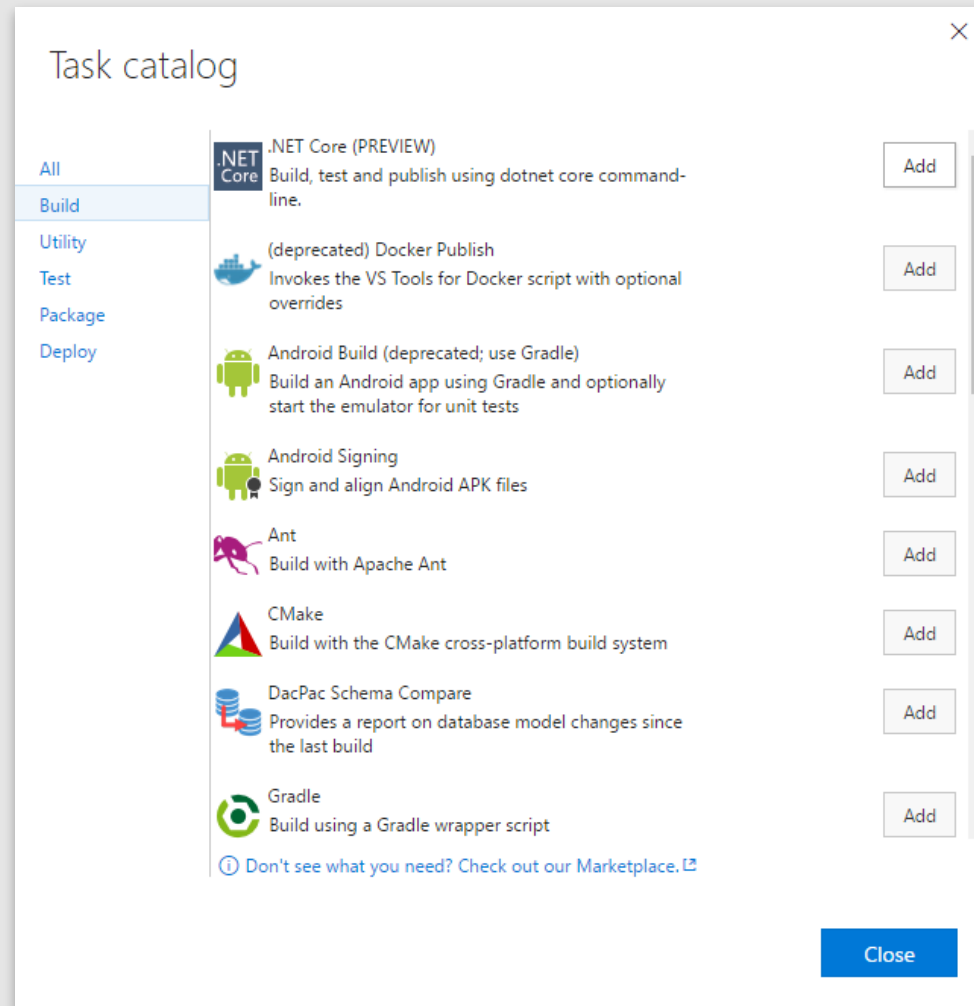
☐

Timeout







0

 More Information 


Adding New Build Steps





Build Definitions

 BethanysPieShop ▾ Dashboards Code Work Build & Release Test |  Search work items    GC 

Builds Releases Library Task Groups Explorer

Build Definitions  [+ New](#) [Security](#) [Help](#)

[Mine](#) [All Definitions](#) [Queued](#) [XAML](#)

Requested by me	Status	Triggered by	7-day pass rate	History
<div> BethanysPieShop - CI Build : #132 Gill Cleeren requested 4 weeks ago</div>	✓ succeeded	🔗 128 in 89 \$/Beth...	0% →	



Queueing a Build

×
Queue build for BethanysPieShop - CI Bui...

Queue
Hosted

Source version

i

Shelveset name

...

Variables

Demands

system.debug

false

+

Add variable

OK

Close




Build Results

BethanysPieShop - CI Build / Build 132 ☐ Build not retained

[Edit build definition](#) [Queue new build...](#) [Download all logs as zip](#) [Release](#)

Build succeeded

 Build 132
Ran for 3.3 minutes (Hosted), completed 28 days ago

[Summary](#) [Timeline](#) [Artifacts](#) [Code coverage*](#) [Tests](#)

Build details

Definition	BethanysPieShop - CI Build (edit)
Source	\$/BethanysPieShop/BethanysPieShop-Advanced
Source version	128
Requested by	Gill Cleeren
Queued	Sunday, March 5, 2017 3:26 PM
Started	Sunday, March 5, 2017 3:26 PM
Finished	Sunday, March 5, 2017 3:29 PM

Associated work items

No associated work items found for this build

Associated changes

No changes associated with this build.

Test Results

No test runs are available for this build.
Enable automated tests in your build definition by adding the [Visual Studio Test task](#).

Code Coverage

No build code coverage data available.

Tags

[Add...](#)

Deployments



Demo



Creating the build definition

Queueing the build

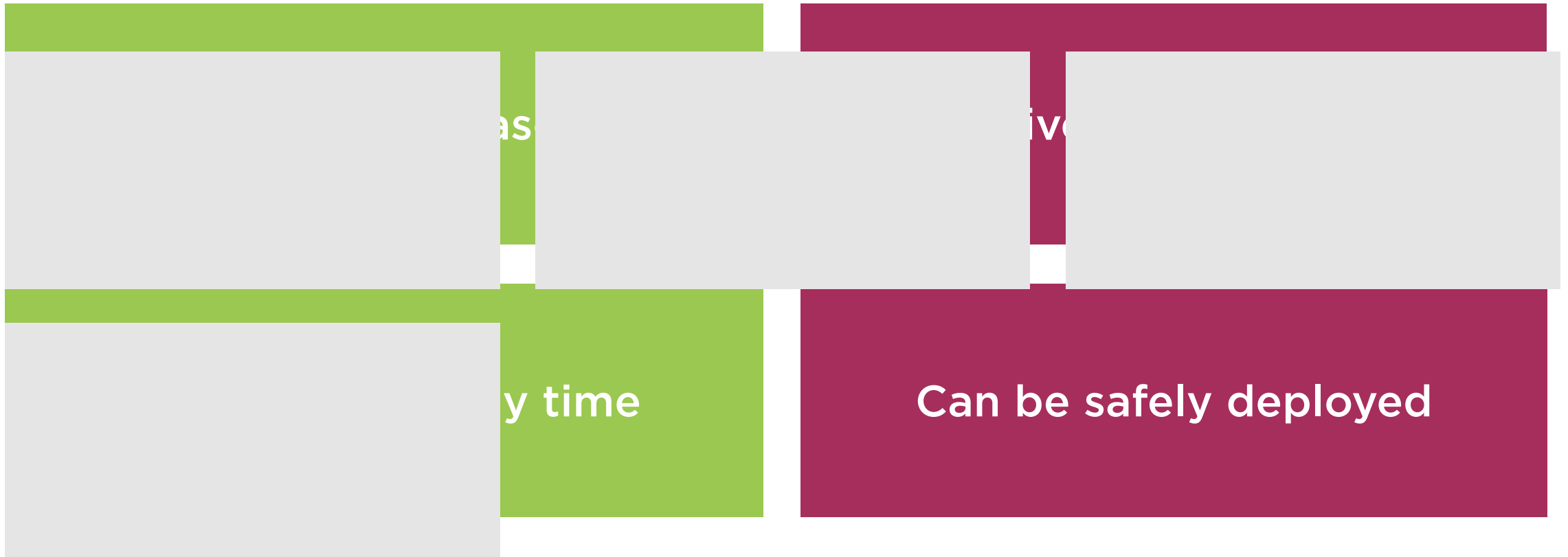
Enabling CI for the build



Automating the Deployment to Azure App Service



Continuous Delivery



Continuous Deployment



VSTS and CD



Demo



Setting up the automated deployment



Summary

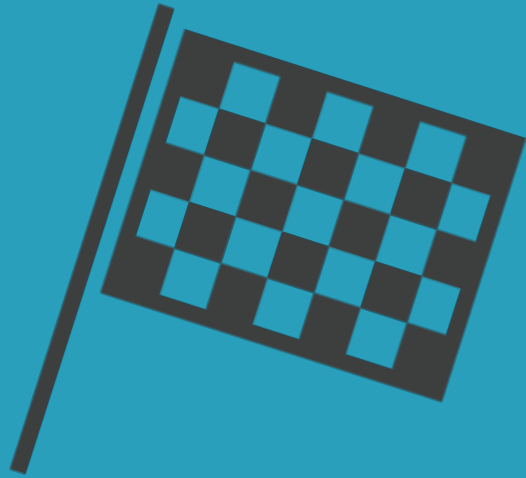


**VSTS offers an all-in-one solution
for development team**

Continuous integration

**Automate deployment to
Azure App Service**





Congratulations on
finishing this course!

