

What's new in TFS 2018



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Agenda

TFS vs VSTS
Upgrade Considerations
New Features
Future Improvements

TFS vs VSTS

TFS vs VSTS

- × Upgrades
- × Server Management
- × Work Items Customizations
- × Private Network
- × Warehouse and Reporting

Upgrade Considerations

Removing support for XAML Builds

- × If you have any XAML build data in your team project collection, you'll get a warning about the removal of XAML build features.
- × In TFS 2018, you'll be able to view completed XAML builds, but you won't be able to queue new ones.

Removing support for Lab Center

- × Lab Center, no longer supported
- × You can run automated tests in Build and Release.
- × You can run automated tests from a test plan using the Test hub.

Discontinuing TFS Extension for SharePoint

- × TFS 2018 and later versions will no longer support the TFS Extension for SharePoint

Discontinuing Team Rooms

- ✗ Use Slack or Microsoft Teams instead

New Features

Process Template Manager on the web

(Work Item Tracking)

DefaultCollection ▾ Projects My favorites ... | ⚙ Search code

Overview Users Security Process Build and Release Agent Pools Notifications Extensions

All processes

Processes

Process templates are the building blocks of the way your organization's operational style. Changes you make to these system process templates will affect all team projects.

Team Foundation Server provides three system process templates. To create your own, click **Upload process template**.

+ Upload process template

Name

- Agile (default)
- Scrum
- CMMI

Upload process template

Choose file to upload

Upload the zipped process template files to add or modify a process template. A modified process template will only apply to new team projects. It will not affect existing team projects.

To customize an existing team project, use witadmin to import a modified XML definition file for a specific team project.

Learn more ↗

Drag and drop a file here or click browse to select a file

Browse...

Upload

Scrum.zip

Show all

ss template that matches
y will not affect existing
ices. You can't modify
xible and will work great for most tea...
- teams who follow the Scrum framew...
- more formal projects requiring a fra...

?

Mobile work item form

(Work Item Tracking)

≡ My work items

Assigned to me Following My activity

Doing

- 991370 Mobile work item form
- 891311 Common filtering react components, Boards, Backlogs, Sprints, Queries

Done

- 963788 Accessibility bugs

≡ My work items

FEATURE 991370

Mobile work item form

Updated 4 hours ago by Jose Rady Allende

0 Add tag



Be the first to add a comment

Details

Exception Handling

History

Assigned To



Jose Rady Allende

State

In Progress

Reason

Started

Area

VSOonline\VS Cloud Services\Agile\WIT PI



mseng

My work items



Jose Rady Allende

xxxxxxxx@microsoft.com

Sign out

Send Feedback

View full site

Filtering on backlogs,
Kanban boards,
sprints, and queries

(Work Item Tracking)

Demo ▼ Dashboards Code Work Build and Release Test Wiki | ⚙️

Search work items 🔍 ▼ ✖️ 👤 ...

Backlogs Queries

Features

Backlog Board

Parents Hide In progress items Show Mapping Off ⚙️ 🖨️ ...

New + ✉️ Create query Column options ✉️

Filter by keyword Task Assigned to States Tags

Title Add

Sprint 1

Sprint 2

Sprint 3

Sprint 4

Sprint 5

Sprint 6

Order	Work Item Type	Title	State	Effort	Busin...	Value Area	Tags
1	Feature	FEATURE 2	New		Business		
Order	Work Item Type	Title	State	Effort	Busin...	Value Area	Tags
	Task	TASK 2.1.1	To Do				
	Task	TASK 2.2.1	To Do				
	Task	TASK 1.1.1	To Do				
	Task	TASK 1.1.2	To Do				
	Task	TASK 1.1.3	To Do				
	Task	TASK 1.2.1	To Do				
	Task	TASK 1.2.2	To Do				
	Task	TASK 1.3.1	To Do				
	Task	TASK 1.1.1	To Do				
Product Backl...	PBI 1.2		New		Business		
	Task	TASK 1.2.1	To Do				
	Task	TASK 1.2.2	To Do				

Inline add on Delivery Plans

(Work Item Tracking)

Demo Dashboards Code Work Build and Release Test Wiki | 

Search work items    

Backlogs Queries **Plans**

Demo-Plan ☆   

January 2018 February

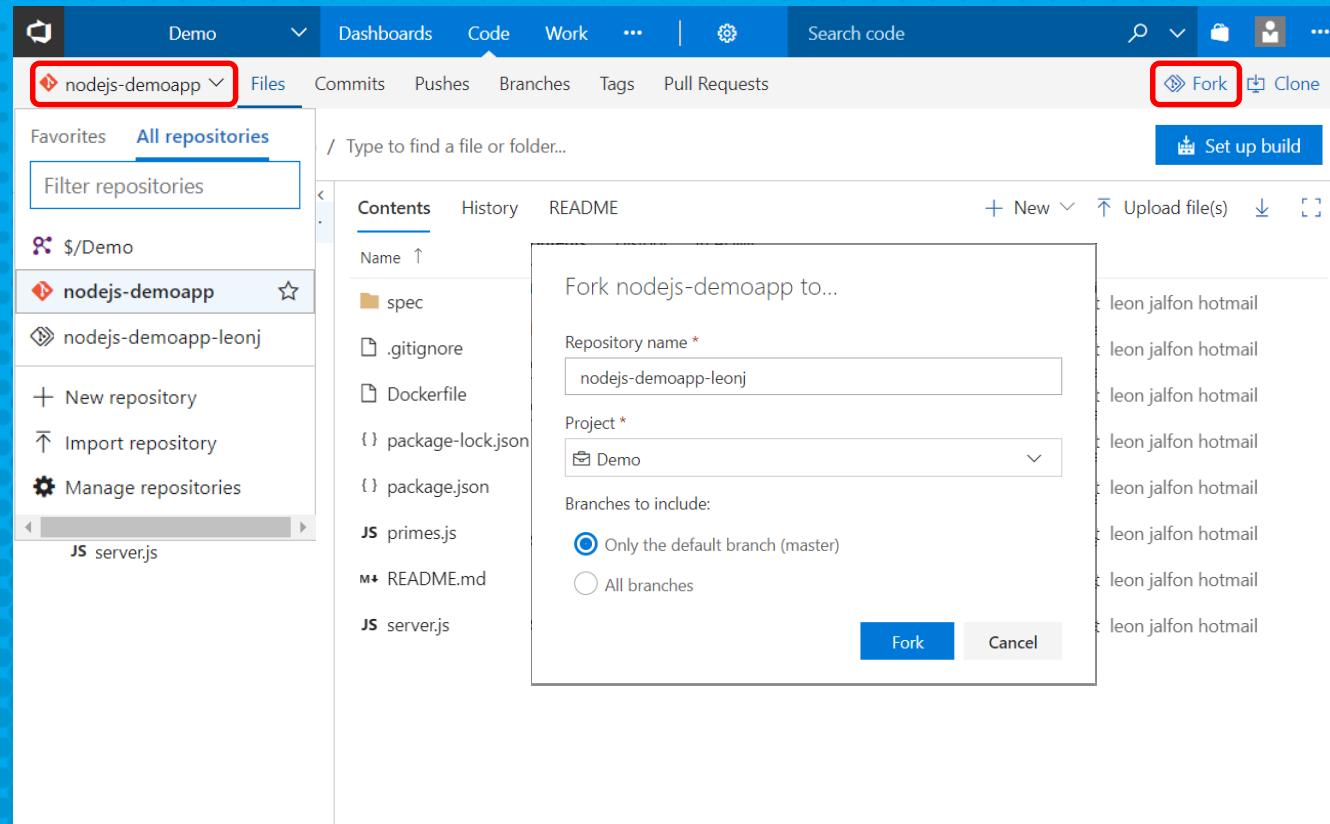
^ Demo Team Backlog items

Sprint 1 1/7 - 1/13	Sprint 2 1/14 - 1/20	Sprint 3 1/21 - 1/27	Sprint 4 1/28 - 2/3
PBI 1.1 State: New	PBI 1.2 State: New	PBI 1.3 State: New	BUG 1.1 State: New
PBI 2.1 State: New	PBI 2.2 State: New	BUG 2.1 State: New	

 New item ^

Forks

(Version Control – Git)



GVFS

Git Virtual File System

(Version Control – Git)

Git Virtual File System (GVFS)

- × Only download contents that the user needs
- × Make local Git commands consider just the files that the user cares about, and not all the files that exist in the working directory

Git Virtual File System (GVFS)

Action	Without GVFS	With GVFS
Clone	12+ hours	4-5 minutes
Checkout	3 hours	30 seconds
Status	10 minutes	3 seconds
Commit	30 minutes	6 seconds

Windows repository size: 300 GB (3.5 million files)

Create a folder in a repository using web

(Version Control – Git & TFVC)

Screenshot of the Microsoft Team Services (VSTS) Code interface showing a 'Check in' dialog.

The main navigation bar includes: Demo, Dashboards, Code, Work, Build and Release, Test, Wiki, and a gear icon. The search bar says 'Search code'. The top navigation bar also includes: Search code, a magnifying glass icon, a folder icon, a user icon, and three dots.

The breadcrumb path shows: \$/Demo / \$/Demo Files Changesets Shelvesets.

The left sidebar shows a tree view under \$/Demo, with the 'Files' tab selected. The 'Contents' tab is active, and the 'History' tab is visible.

The 'Check in' dialog box is open:

- New folder:** \$/Demo Enter new name
- Comment:** (Empty text area)
- Work items to link:** Search work items by ID or title

At the bottom of the dialog are 'Check in' and 'Cancel' buttons.

Screenshot of a software application interface, likely a code repository or build tool, showing a file creation dialog.

The top navigation bar includes: Demo, Dashboards, Code, Work, Build and Release, Test, Wiki, and a gear icon. A search bar "Search code" is on the right, along with icons for Fork, Clone, and other actions.

The main header shows the project "nodejs-demoapp" and the branch "master". Below it is a breadcrumb trail: master / nodejs-demoapp / Type to find a file or folder... and a "Set up build" button.

The left sidebar lists the project's files and folders:

- nodejs-demoapp
- spec
- .gitignore
- Dockerfile
- package-lock.json
- package.json
- primes.js
- README.md
- server.js

The "Contents" tab is selected in the center header. The main content area displays a "New folder" dialog box.

New folder

New folder name *

/

Use slashes to create multiple subfolders like "sub/folder".

New file name *

Git folders cannot be empty, so a placeholder file will be added. Its content can be edited before commit.

Create Cancel

File minimap

(Version Control – Git & TFVC)

Screenshot of a web-based code editor interface, likely from a cloud provider like Azure DevOps or GitHub, showing a file named `file.ps1`.

The top navigation bar includes links for Demo, Dashboards, Code, Work, Build and Release, Test, Wiki, and a gear icon for settings. A search bar labeled "Search code" is also present.

The left sidebar shows the project structure:

- nodejs-demoapp-leonj (selected)
- spec
- .gitignore
- Dockerfile
- file.ps1 (selected)
- package-lock.json
- package.json
- primes.js
- README.md
- server.js

The main content area displays the contents of `file.ps1`:

```
param
(
    [Parameter(Mandatory=$true)]
    $StartDate,
    [Parameter(Mandatory=$true)]
    $EndDate,
    [Parameter(Mandatory=$true)]
    $Path,
    [Parameter(Mandatory=$true)]
    $CollectionUrl,
    [Parameter(Mandatory=$true)]
    $TeamProject,
    [Parameter(Mandatory=$true)]
    $Credentials,
    [Parameter(Mandatory=$false)]
    $File = [Environment]::GetFolderPath("Desktop"),
    [Parameter(Mandatory=$false)]
    $Detailed = $false,
    [Parameter(Mandatory=$false)]
    $TFPPath = $null
)
#
#####
# METHODS
#####
#
#
# Cast dates from "dd/mm/yyyy" to "mm/dd/yyyy"
function Cast-Date
{
    param
    (
        [Parameter(Mandatory=$true)]
        [ValidateNotNullOrEmpty()]
        [String]$Date
    )
    $date = Get-Date -Date $Date -Format "dd/MM/yyyy"
    $date = $date.ToString("MM/dd/yyyy")
    return $date
}
#
#
#
# Cast dates from "dd/mm/yyyy" to "mm/dd/yyyy"
function Cast-Date
{
    param
    (
        [Parameter(Mandatory=$true)]
        [ValidateNotNullOrEmpty()]
        [String]$Date
    )
    $date = Get-Date -Date $Date -Format "dd/MM/yyyy"
    $date = $date.ToString("MM/dd/yyyy")
    return $date
}
```

A context menu is open over the word "to" in the first line of the code. The menu items are:

- Go to Line... (Ctrl+G)
- Move Last Selection To Next Find Match (Ctrl+K Ctrl+D)
- Move Last Selection To Previous Find Match
- Show Editor Context Menu
- Shift+F10
- Toggle High Contrast Theme
- Toggle Minimap (selected)
- Toggle Tab Key Moves Focus (Ctrl+M)
- Toggle White Space
- Toggle Word Wrap

Setting to turn off
web editing for TFVC
repositories

(Version Control – TFVC)

TfvcProject3

Overview Work Security Version Control Agent queues Notifications

Repositories

New repository

Options for \$/TfvcProject3

Security Options

Enable web-editing for this TFVC repository.

Web-editing is not allowed

Your administrator has disabled web-editing for the '\$/TfvcProject3' repository. You cannot add, delete, rename, or edit files via the web. Make your changes locally then check in.

Cancel



Identify stale
branches

(Version Control – Git)

Screenshot of a software application interface, likely a code repository or build system, showing a list of branches.

The top navigation bar includes links for Demo, Dashboards, Code, Work, Build and Release, Test, Wiki, and a gear icon. A search bar for "Search code" is also present.

The main content area shows a list of branches under the heading "Branches". The list includes:

Branch	Commit	Author	Authored Date	Behind Ahead	Build	Pull Request
rename-should-not-delete	27fe18ba	Matt Burke	2/25/2013	1485 3		
debug_slow_commit	ea7c82c0	Matt Burke	6/8/2013	1289 3		
time-since-start	bc6e6fb5	Matt Burke	6/8/2013	1289 2		
alternate-cleanup-implementations	8050e181	Matt Burke	6/8/2013	1289 3		
lightfoot	a387ecfc	Matt Burke	6/13/2013	1286 4		
better-releasing	de4816db	Matt Burke	3/7/2016	235 1		
debug-appveyor	6aa2f530	Matt Burke	4/7/2016	227 10		
pull/1056	8cab5d52	Philippe Miossec	4/11/2017	104 4		

Filter options "Mine", "All", and "Stale" are available above the branch list. A "New branch" button is located in the top right corner of the list area.

Search for deleted
branches and restore
them

(Version Control – Git)

Screenshot of a software application interface, likely a code repository or CI/CD platform, showing a deleted branch named "alternate-cleanup-implen".

The top navigation bar includes links for Demo, Dashboards, Code, Work, Build and Release, Test, Wiki, and settings.

The Code section is active, showing a dropdown for "git-tfs" and tabs for Files, Commits, Pushes, **Branches**, Tags, and Pull Requests.

The Branches tab shows a search bar for "Search code" and buttons for Fork and Clone.

The main content area displays a list of branches under the heading "Exact match found".

Branch	Commit	Deleted By	Deleted Date	Behind Ahead	Build	Pull Request
alternate-cleanup-implen	... 8050e181	Administrator	just now			

A tooltip for the "Restore branch" button is visible.

Filter tree view in Code and Pull Requests

(Version Control – Git & TFVC)

File and folder filtering in pages:

- Commit details
- Pull requests
- Shelveset details
- Changeset details

Screenshot of a pull request interface showing a completed merge from master to branch-to-test-prchanges.

Header: zero > Dashboards, Code, Work, Build & Release, Test, Wiki*, Pull Requests

Section: 1 COMPLETED Merge master to branch-to-test-prchanges

Author: Vivek Jilla (master into branch-to-test-prchanges)

Options: Overview, Files, Updates, Commits

File tree search bar: Find a file or folder

File tree:

- zero
 - mocks
 - JS ReactElementTestChild.js
 - JS ola ola olaaaaa..
 - JS ReactMockedComponentTestComponent.js
 - scripts
 - fiber
 - record-tests
 - tests-passing.txt
 - jest
 - JS setupMocks.js [+]
 - JS setupSpecEquivalenceReporter.js

Screenshot of a code editor showing the build.js file from the /scripts/rollup directory.

Header: zero > Dashboards, Code, Work, Build & Release, Test, Wiki*, Pull Requests

Section: 1 COMPLETED Merge master to branch-to-test-prchanges

Author: Vivek Jilla (master into branch-to-test-prchanges)

Options: Overview, Files, Updates, Commits

File tree search bar: bul

File tree:

- build.js
- /scripts/rollup

Code editor:

```
JS build.js +26 -26 /scripts/rollup/build.js
63     case FB_PROD:
64     case RN_PROD:
65         hasteFinalName += '-prod';
66         break;
67     }
68     return hasteFinalName;
69     case UMD_DEV:
70     case UMD_PROD:
71         return reactVersion;
72     default:
73         return null;
74     }
75 }
76
77 function getBanner(bundleType, hasteName, filename) {
78     switch (bundleType) {
79         // ...
80         // ...
81         // ...
82         // ...
83         // ...
84         // ...
85     }
}
```

**View and Delete tags
from the web portal**

(Version Control – Git)

Screenshot of the Microsoft Azure DevOps Code interface showing the Tags page for a repository named "git-tfs".

The top navigation bar includes links for Demo, Dashboards, Code (selected), Work, Build and Release, Test, Wiki, and a gear icon for settings.

The left sidebar shows the repository name "git-tfs" and links for Files, Commits, Pushes, Branches, Tags (selected), and Pull Requests.

The main content area displays a list of tags:

Tag	Commit	Tagger	Creation Date
birthday	a7199d59		
v0.10.0	4d0fe48c		
v0.11.0	3dee0622		
v0.12.0 v0.12.0 (release candidate version)	fd83dd7	ivan-danilov	8/10/2011
v0.12.1	1b2b395c		
v0.13.0	21a5ead5		
v0.14.0	e631379c		
v0.15.0	5b3c8364		
v0.16.0	c5d6ea9a		
v0.16.1	9070e727		
v0.17.0	11995425		
v0.17.1	ba5e92a9		
v0.17.2	def84ab4		
v0.18.0	7a926b85		
v0.19.0	1eeee847		
v0.19.1	1ee5cfec		

A context menu is open over the "v0.12.0" tag, listing options: New branch..., Download as Zip, View files, View history, Delete tag (highlighted in red), and Set as compare tag.

Search filters include "Search code" and "Search tag name". Action buttons include "Fork", "Clone", and "Create Tag".

Automatically
complete work items
when completing pull
requests

(Version Control – Git)

Complete pull request

Merged PR 10: Fixing an issue where avatars aren't rendering properly

Fixing an issue where avatars aren't rendering properly. The problem was in the image caching service.

Related work items: #3

- Complete linked work items after merging
- Delete users/mmitrik/rendering-bug after merging
- Squash changes when merging [Learn more](#)

Complete merge

Cancel

Reset votes when
there are new changes

(Version Control – Git)

Require a minimum number of reviewers

Require approval from a specified number of reviewers on pull requests.

Minimum number of reviewers

2

Allow users to approve their own changes.

Allow completion even if some reviewers vote "Waiting" or "Reject".

Reset code reviewer votes when there are new changes.



Task lists in pull
request descriptions
and comments

(Version Control – Git)

Description



What testing was done?

Manual testing of the following scenarios:

[Create new account](#)

[Add new user](#)

[Assign licenses](#)

Markdown supported. Drag & drop, paste, or select files to attach.

Aa

B

I

</>



@

#

Save

Cancel

Description



What testing was done?

Manual testing of the following scenarios:

Create new account

Add new user

Assign licenses

Ability to “Like”
comments in pull
requests

(Version Control – Git)



PullRequestService.Conflict.cs

/Services/PullRequest/PullRequestService.Conflict.cs

6 hours ago

```
^ 391      {  
 392      try  
 393      {  
 394      nativeLibrary.CreateNewCommitsWithTreeDefinition(  
 395      author: commitDetails.Author,  
 396      committer: commitDetails.Committer,  
 397      commitMessage: commitMessage,
```

Like this comment



Ross Brodbeck 💣💥⚡ 6 hours ago

add a comment here about what this method does.



Active ▾



Write a reply...

Resolve

Path filtering support for Git notifications

(Version Control – Git)

New subscription

X

Description

Subscriber

A commit is pushed

Administrator

Deliver to

Address

Preferred email

Demo

Filter

Any team project

A specific team project

Filter criteria

(And/Or)		Field	Operator	Value
+	X	Repository name	=	Demo
+	X	Changes in folder	Under Path	/sql
+ Add new clause				

Finish

Cancel

Wiki

(“New” Feature)

The Wiki extension on the Marketplace
is now deprecated.

If you are an existing Wiki extension
user, then you can migrate your Wiki
pages to the new Wiki using
a migration tool.

Tornado  Dashboards Wiki*   Search code    

How to Contribute

 Sandeep Chadda 6/20/2017 [Revisions](#)

Contributing to Code

There are many ways to contribute to the Code project: logging bugs, submitting pull requests, reporting issues, and creating suggestions.

After cloning and building the repo, check out the [issues list](#). Issues labeled [beginner](#) are good candidates to pick up if you are in the code for the first time.

Build and Run From Source

If you want to understand how Code works or want to debug an issue, you'll want to get the source, build it, and run the tool locally.

Installing Prerequisites

You'll need [git](#) and a recent version of [NodeJS](#) (any `v6.x` is recommended, on Windows you need at least `v6.x`). [nvm](#) is also highly recommended.

Note: on Windows you might want to set `core.autocrlf=false` and `core.safecrlf=true`, to keep the line endings we have in our source files.

Code includes node module dependencies that require native compilation. To ensure the compilation is picking up the right version of header files from the Electron Shell, we have our own script to run the installation via [npm](#).

>

Filter pages

Pages

-  Home
-  Roadmap
-  How to Contribute
-  Requested Extensions
-  Contributor License Agreement
-  Smoke Test
-  Coding Guidelines
-  Code Organization
-  Feedback Channels
-  Submitting Bugs and Suggestions
-  UX
-  Cross Compiling for Debian Based Linux
-  IME Test
-  Code Editor Roadmap
-  Keybindings
-  Color customization color id changes



Maven packages
support

(Package Management)

Connect to feed

NuGet

npm

Maven

Consume artifacts using Maven

Repository URL

https://mseng.pkgs.visualstudio.com/_packaging/zCalvinMaven/maven/v1



Add credentials to your user settingsxml inside the <servers> tag

[Generate Maven credentials](#)

settings.xml reference

Add this feed to your project pom.xml inside the <repositories> tag

```
<repository>
  <id>mseng-visualstudio.com-zcalvinnmaven</id>
  <url>https://mseng.pkgs.visualstudio.com/_packaging/zCalvinMaven/maven/v1</url>
  <releases>
    <enabled>true</enabled>
  </releases>
  <snapshots>
    <enabled>true</enabled>
  </snapshots>
</repository>
```



pom.xml reference

Publish artifacts using Maven

Publish to this feed

`mvn deploy`



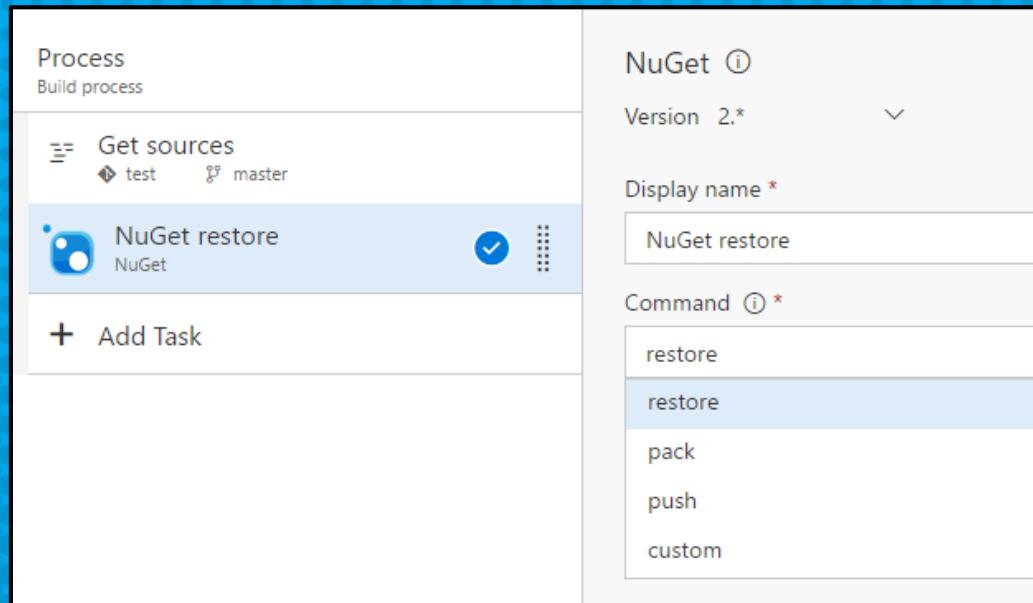
mvn deploy reference

Close

New unified NuGet task

(Package Management)

NuGet Restore, NuGet Packager, and NuGet Publisher tasks were combined into a unified NuGet build task (the new task uses NuGet 4.0.0 by default)



Export and import build definitions

(Build and Release)

Builds Library

Build Definitions + New + Import

Mine All Definitions Queued XAML

↑ Folder / Name Default branch summary

OurProject-Cl

...

- Queue new build...
- Move definition
- View definition summary
- Edit...
- Add to my favorites
- Add to team favorites
- Clone...
- Export

Builds Library

Build Definitions + New + Import

Mine All Definitions Queued XAML

Import build definition

Select the build definition JSON file to import its content

Drag and drop a file here or click browse to select a file Browse...

Import Cancel

Pause build definitions

(Build and Release)

Demo Dashboards Code Work Build and Release Test Wiki | ⚙

Builds Releases Packages Library Task Groups Deployment Groups

Build Definitions

Mine All Definitions Queued

You can use a build definition to automate your build process.

The Demo team project doesn't have any agents configured.

+ Agent Get started

Recently built

Demo-.NET Desktop-CI

Triggered by 7-day pass rate History

No builds have run for this definition. 0% →

Queue new build... Edit... Pause View definition summary

Add to my favorites Add to team favorites

Clone... Export Rename... Save as a template... Delete definition Security... Add to dashboard >

Deprecate a task in
an extension

(Build and Release)

Build solution ***.sln
Visual Studio Build

VsTest - testAssemblies
Visual Studio Test

Publish symbols path:
Index Sources & Publish Symbols

Copy Files to: \$(build.artifactstagingdirectory)
Copy Files

Publish Artifact: drop
Publish Build Artifacts

Ant VCXVCX
DEPRECATED MEEE

Use Node 6.x
PREVIEW Node Tool Installer

+ Add Task

Add tasks

Don't see what you need? Check out our Marketplace.

Deprecated tasks ▾

MEEE
Build with Apache Ant MEE

copy

Add tasks

Don't see what you need? Check out our Marketplace.

Azure File Copy
Copy files to Azure blob or VM(s)

Copy Files
Copy files from source folder to target folder using match patterns (The match patterns will only match file paths, not folder paths)

Add

Copy Files Over SSH
Copy files or build artifacts to a remote machine over SSH

Windows Machine File Copy
Copy files to remote machine(s)

Deprecated tasks ▾

Copy and Publish Build Artifacts
[DEPRECATED] Use the Copy Files task and the Publish Build Artifacts task instead

Task group references

(Build and Release)

Builds Releases Packages Library **Task Groups**

> Task Group 1

Properties Tasks History **References**

Save

Expand each category for task group reference.

Release definitions

Name	Environments
Contoso CD	Environment 1
Release Definition 2	Environment 1

Build definitions

Name
RM-.NET Desktop-CI
RM-ASP.NET (PREVIEW)-CI
RM-ASP.NET Core (.NET Framework)-CI

Task groups

Name
Parent Task Group 2

Task group versioning

(Build and Release)

The screenshot illustrates the process of publishing a task group in Azure DevOps. It shows three main windows:

- Top Left Window:** Shows the "Task Groups" tab selected in the "Builds" section. A context menu is open over the "Deploy IIS to LoadBalanced VMS" task group, with the "Save as draft" option highlighted.
- Top Right Window:** Shows the "Task Groups" tab selected in the "Builds" section. The "Deploy IIS to LoadBalanced VMs" task group is now listed under "Task Groups". The "Publish" button is highlighted.
- Bottom Window:** Shows a build definition named "Demo-.NET Desktop-Cl". In the "Tasks" tab, the "Task group: Run Dir" task is selected. A dropdown menu for "Version" is open, showing "1.*" and "2.* (preview)".

A modal dialog titled "Publish Task Group" is displayed, containing the following text:
Changes made to the draft version will overwrite the parent task group version and the draft task group will be deleted. Are you sure you want to proceed?
Comment
Enter a comment
 Publish as preview

(?) Publish a new preview version of the task group. Recommended if the changes are non-backward compatible.

OK Cancel

Task group import and export

(Build and Release)

Contoso

Builds Releases Packages Library Task Groups Deployment Groups* WhiteSource Bolt

Task Group*: GopiTestTG

Properties Tasks History References

Save

Add tasks

Azure App Service Deploy: \$(webapp1)
Azure App Service Deploy

...

Delete Export Security...

GopiProcess

GopiTestTG

kasubram

MMSImageGeneration-UploadM...

MMSImage

MMSImage

MMSImage

MMSImage

MMSImage

Secure Files Library

(Build and Release)

Docker-Deepspace

Build & Release

Builds Releases Packages Library Task Groups Deployment Groups* Explorer

Library

Search secure files

+ Secure file

Variable groups Secure files

Name	Modified by	Date modified
id_rsa	David	4 minutes ago
iosDevelopmentCert.p12	David	just now

Variable group support

(Build and Release)

Screenshot of the Azure DevOps interface showing the creation of a variable group named "demo-group".

The main navigation bar includes: Demo, Dashboards, Build and Release, ..., Search code.

The sub-navigation bar under Library includes: Builds, Releases, Packages, Library, Task Groups, Deployment Groups.

The sub-navigation bar for the current "demo-group" page includes: Builds, Releases, Packages, Library, Task Groups, Deployment Groups.

The current page path is: Library > demo-group.

Properties section:

- Variable group name: demo-group
- Description: (empty)
- Link secrets from an Azure key vault as variables [Learn how it works?](#)

Variables section:

Name ↑	Value	⋮
var1	val1	
var2	val2	
var3	val3	

[+ Add](#)

New Release Definition Editor

(Build and Release)

Contoso

Builds Releases Library Task Groups Deployment Groups*

* HelloWorld

Save + Release View releases Edit (Old editor) ...

Pipeline Tasks Variables History

Artifacts | + Add

- Build izzlingsBul...
- Git Library

Environments | + Add

- Dev 1 phase(s), 2 task(s)
- Functional 2 phase(s), 3 task(s)
- Prod 1 phase(s), 3 task(s)
- Perf 2 phase(s), 5 task(s)

The screenshot shows the Microsoft DevOps Pipeline Editor interface. At the top, there's a navigation bar with 'Contoso' selected, followed by 'Builds', 'Releases', 'Library', 'Task Groups', and 'Deployment Groups*'. Below the navigation is a title bar for 'HelloWorld' with options like 'Save', 'Release', 'View releases', 'Edit (Old editor)', and '...'. A tabs bar below the title bar includes 'Pipeline' (which is selected), 'Tasks', 'Variables', and 'History'. On the left, under 'Artifacts', there are two items: 'Build' (with a circular icon containing a gear and a person) and 'Git Library' (with a circular icon containing a hexagon). On the right, under 'Environments', there are four stages connected sequentially: 'Dev' (1 phase(s), 2 task(s)), 'Functional' (2 phase(s), 3 task(s)), 'Prod' (1 phase(s), 3 task(s)), and 'Perf' (2 phase(s), 5 task(s)). Each stage has a circular icon with a gear and a person. The stages are connected by arrows indicating the flow of the pipeline.

Improved task and
phase editor in RM

(Build and Release)

Contoso  Dashboards Build & Release ... Search work items

Builds Releases Library Task Groups Deployment Groups*

↑ HelloWorld  Save  Release  View releases  Edit (Old editor) ...

Pipeline Tasks  Variables History

Functional Deployment process 

Deploy  +

 Azure App Service Dep...
Azure App Service Deploy

Test  +

 Cloud Load Test sczxcx...
Cloud-based Load Test

Add tasks
Don't see what you need? Check out our Marketplace. 

 Azure App Service Deploy
Update Azure App Service using Web Deploy / Kudu REST APIs

 Azure App Service Manage (PREVIEW)
Start, Stop, Restart, Slot swap or Install site extensions for an Azure App Service

 Azure App Service: Classic (Deprecated)
Create or update Azure App Service using Azure PowerShell

 Azure CLI Preview
Run a Shell or Batch script with Azure CLI commands against an azure subscription

Deployment templates

(Build and Release)

Builds Releases Packages Library Task Groups Deployment Groups* | WhiteSource Bolt

HelloWorld

Save + Release View releases ...

Pipeline Tasks Variables Retention Options History

Environment 4
Some settings need attention

Run on agent Run on agent +

Install Composer Extensi... Azure App Service Manage

Deploy Azure App Service Azure App Service Deploy

Environment name
Environment 4

Parameters | Unlink all

Azure subscription * | Manage

① This setting is required.

App service name * |

① This setting is required.

Most important task parameters bubbled up to one view

Deployment using Deployment Groups

(Build and Release)

DevOps ▾ Dashboards Code Work Build & Release Test Wiki* ⚙

Builds Releases Packages Library Task Groups Deployment Groups*

Deployment Groups > fabfiber-qa

Details Machines Save Security Help

Machine Name	Tags	Latest Deployment
FAB1SQLSRV14	DB X +	Release-395 / QA
FAB1WEBSRV0	web X +	Release-395 / QA
FAB1WEBSRV1	web X +	Release-395 / QA
FAB1WEBSRV2	web X +	Release-395 / QA
FAB1WEBSRV3	web X +	Release-395 / QA
FAB1WEBSRV4	web X +	Release-395 / QA
FABQWEBSRV5	... web X +	Release-395 / QA

Simplified management
of release and
environment variables

(Build and Release)

VSOnline / VS.in CI Exper...

Builds Releases Pipelines Variables Deployment Groups* WhiteSource Bolt

Filter capability to scope down the list

Save + Release View releases Edit (Old editor) ...

Pipeline Tasks Variables Retention Options History

Process variables

Variable groups

Predefined variables

Filter by keywords Test (+1) Clear

List Grid

Name	Value	Description
Test		Internal Beta
DatabaseName	Fabrikam_Test	Fabrikam_Beta
DatabaseServer	testsql.fabrikam.com	betasql.fabrikam.com
DatabaseUser	Admin_DevTest	
DatabaseUserPassword	dfhsdhfkhf	*****
WebsiteHostName	test.fabrikam.com	beta.fabrikam.com

Two views for variable management – List and Grid

This screenshot shows the 'Variables' section of the Microsoft VSTS interface. At the top, there's a navigation bar with links for Builds, Releases, Pipelines, Variables (which is the active tab), Retention, Options, and History. Below the navigation is a search bar and a toolbar with Save, Release, View releases, Edit (Old editor), and more options. A tooltip 'Filter capability to scope down the list' points to the search bar. The main area is divided into two sections: 'Process variables' and 'Variable groups'. Under 'Process variables', there's a table with columns for Name, Value, and Description. The table contains several rows for predefined variables like DatabaseName, DatabaseServer, and WebsiteHostName. A filter bar above the table allows filtering by keyword ('Test (+1)'). To the right of the table are 'List' and 'Grid' view selection buttons. A tooltip 'Two views for variable management – List and Grid' points to the grid view button.

Test trend charts for
Release Environments
and Test Runs

(Test)

Overview **QA**



Configuration

Title: Functional test environment

Size: 2 x 2

Workflow: Build Release

Release definition: FabrikamFiber.CD

Release Environment: QA-FunctionalTests

Test Run Title:

Primary chart: Line Column Stacked column

Chart widget for test
plans and test suites

(Test)

FabrikamFiber Dashboards Code ... Search code

Overview Requirements quality Test Cycle 27 All up status

+ New

testing123

Manoj Bable...
Jamal Hartn...
Not availab...
Kanchan Ver...

Test availability

0 25 50

Not run Passed Failed In progress Not applic...

FLTOPS - Chart

Current Sprint Stories - Charts

Chart for Work

Not run Passed Failed In progress

39

73

19 11 9 2

Passed Failed In progress Not run

Configuration

Test plan

Web Team

Test suite

Web Team\Current Sprint Stories

Chart for

Test cases Test results

Chart type

Pie Bar Column
Stacked bar Pivot table

Group by

Outcome

Aggregation

Count of Tests

Sort

Value Descending

Save Cancel

Future Improvements

- × Configuration as code (YAML) builds
- × Pull request service hooks merge events
- × Path filters for pull request policies
- × Use TFS as a symbol server
- × Agentless build tasks
- × Find lost commits due to a Force Push

- × Build PRs from forks in GitHub
- × Grant the bypass rule permission to specific users
- × Build completion triggers – (build after build)
- × API to extend Pull Requests for custom status policies
- × Release gates

THANKS!

Any questions?

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