

# **Visual Studio Team Services**

#### **Getting Started**





Hans-Petter Halvorsen, M.Sc.

## Visual Studio Team Services

- Visual Studio Team Services is a platform taking care of all aspects of the process of developing software (the software development lifecycle)
- You can share Documents and Code with your Team, report Bugs, etc.

## Team Foundation Server (TFS) vs. Visual Studio Team Services (VSTS)



"Team Foundation Server" (TFS). This is software you can install on a server in your own network. You and your team can then hook up Visual Studio to that server and use TFS. You have to buy the software, buy licenses for users and use your own server. "Visual Studio Team Services" (VSTS) is an online version of TFS – hosted by Microsoft. You don't need to install anything. You need to pay a monthly fee (until 5 users is for free). VSTS is available from http://www.visualstudio.com

#### https://en.wikipedia.org/wiki/Team\_Foundation\_Server

## Visual Studio Team Services (VSTS)

- Formerly known as Visual Studio Online (VSO)
- VSTS is a Source Code Control (SCC), Bug Tracking, Project Management, and Team Collaboration platform
- Integrated with Visual Studio
- TFS in the Cloud (This means you don't need to host the server yourself)

www.visualstudio.com

• Free for up to 5 users



TFS/VSTS is an Application Lifecycle Management (ALM) System



## **Visual Studio Team Services**

#### www.visualstudio.com





#### Visual Studio Team Services

Cloud collaboration tools for teams

It's not an IDE, it's everything else. Visual Studio Team Services provides a set of cloud-powered collaboration tools that work with your existing IDE or editor, so your team can work effectively on software projects of all shapes and sizes.

## **Getting Started**



#### Tools for every developer and every app

#### A powerful IDE

Create stunning apps for Windows, Android, iOS, and the web with a powerful integrated development environment. Learn about Visual Studio>

Download Community 2015

Compare 2015 product editions >

#### Team collaboration

Collaborate in the cloud with version control, agile, continuous delivery, app analytics — using any IDE or editor.

Learn about Team Services>

#### An editor for any OS

Build and debug modern web and cloud apps with a free code editor that runs on Windows, OS X, or Linux.

Learn about Visual Studio Code>

#### Get started for free

Host it yourself with Team Foundation Server >

Download Code for Mac OS X

Download for Linux 💆 Windows 💆

By using VS Code, you agree to its license and privacy statement.

### Sign in with your existing Microsoft Account

Sign in to Visual Studio
If you don't have an existing Microsoft account (hotmail,), you need to create a new account



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Keep me si	gned in	
Sign in		
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### **VSTS** Account

#### Create a Visual Studio Team Services Account

#### Full name \*

Contact e-mail *	
Country/Region *	
Please select	\$
Account URL * 😮	
https://	.visualstudio.com

Your account will be hosted in the South Central US region.

Change options

Create Account



### Create your First Project

CREATE NEW TEAM	M PROJECT ×	
Project name		Enter the Name of your Project here
Description		
Process template	Scrum  This template is for teams who follow the Scrum framework.	Select these options
Version control	Team Foundation Version Control (TFVC) uses a single, centralized server repository to track and versi on files. Local changes are always checked in to the central server where other developers can get the latest changes.	
	Create project Cancel	

#### **Project Start Page (Dashboard)**

Visual Studio Online / Systemutvikling 2015 Hans-Petter Halvorsen -0-Θ 0 HOME CODE WORK BUTLD TEST P-÷Ö. + Welcome Overview Welcome Work in Progress (2) Work Get started using Visual Studio Online to make the most Backlog ID Work Item Type Title Assianed To State of your team dashboard. Board 105 Task SRS Hans-Petter Hal ... In Progress Task board Manage Work Oueries 106 Task SDD Hans-Petter Hal... In Progress Add work to your board Collaborate on code Add code to your repository Visual Studio On the Dashboard you Continuously integrate Open in Visual Studio Automate your builds Requires Visual Studio 2013+ see different Widgets Visualize progress Get Visual Studio Jahr Learn how to add charts X See Visual Studio downloads View query Work in Progress Sprint Burndown New work item Team Members Enter title Set iteration dates to use the sprint burndown widget Bug -Set iteration dates Work items Create Add or Change Widgets

## Add Project Members



#### Other Links Widget on the Dashboard

Other Links						
Cont	Configure schedule and iterations					
Con	figure work are	as	Ţ			
ITERATIO	NS				×	
Select	the iterations you wan ons will appear in your	nt to use for iteration backlog view as itera	planning (sprint pla ations available for p	nning). Selected Ianning.	Show Expand all	
New	New child					
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	✓ Release 1					
~	Sprint 1					
~	Sprint 2					
~	Sprint 3					
	Sprint 4					
~	Sprint 5					
	Release 2					
	Release 3					
	Release 4					
(				_	\ \	
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					Close	

## Iterations



Hans-Petter Halvorsen

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#### Iterations

-

-

Sprint 6

Release 2

Release 3

Release 4

Select the iterations you want to use for iteration planning (sprint planning). Selected iterations will appear in your backlog view as iterations available for planning.

New	New child		
14644	New child		
	Iterations	Start Date	End Date
	✓ Software Development	Set dates	Backlog iteration for this team
	✓ Release 1		
✓	Sprint 1	Cuesta Itan	
✓	Sprint 2	Create Iter	ations for the different
✓	Sprint 3	releases m	nilestones or sprints
✓	Sprint 4	releases, ii	
✓	Sprint 5	(internal ar	nd/or external); e.g.,

Alpha, Beta, RC, RTM



#### Example:

Areas

Areas

-

Select the areas your team owns. Selected areas will determine what shows up on your team's backlog and what work items your team is responsible for.

New	New child		
	Areas		
$\checkmark$	Software Development	default area	sub-areas are included
	A Database		
	Design		
	Script	Set default	
	⊿ Desktop		
	WinFormApp1		
	WinFormApp2		
	⊿ Web		
	WebFormApp1		

## The Product Backlog

All the Work that should be done in the Project

🔀 Visual Studio Online / S	of <mark>tware</mark> De	evelopment				Hans-Pett	er Halvorsen   🔅 ?
HOME CODE WORK BUI	LD TEST	*				Sea	rch work items 🔎 👻
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✓ Future Sprint 2 Sprint 3	Type Title	Product Backlog Iter	n <b>v</b>	Add	×		
Sprint 4 Sprint 5	Order 1	Work Item Type Product Backlo	Title Create GUI for Web App	Stat Nev	e Effort	Iteration Path Software Development	Tags
Sprint 6	<b>▼</b> 2	Product Backlo	Add Database Communication with Server	Nev	1	Software Development	

## The Sprint Backlog

Visual Studio Online / Software Development					
HOME CODE WORK BUILD	LD TEST*				
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Backlog items	Backlog Board	Fc			
∡ Current					
Sprint 1	New ⊡ □ Create query Column options □				
🔺 Future	Type Product Backlog Item 💌				
Sprint 2	Add				
Sprint 3					
Sprint 4	Order Work Item Type Title State	Effort			
Sprint 5	1 Product Backlo Create GUI for Web App New				
Sprint 6	2 Product Backlo Add Database Communi Visual Studio Online / Software Development				
	HOME CODE WORK BUILD TEST*				

All the Work that should be done in the Next Sprint (Iteration)

Just Drag Items from the Product Backlog to the Sprint Backlog

	×			
	Add			
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Visual Studio Online / So	oftware Development			
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Features	Software Development Team Sprint 1			
Backlog items	Backlog Board Capacity			
∡ Current				
Sprint 1				
⊿ Future	Title	State	Assigned To	Rema
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Sprint 3	Add Database Communication with Server	New		
Sprint 4	• • • • • • • • • • • • • • • • • • • •			
Sprint 5				

Title

#### + Create GUI for Web App

### **Create Tasks**

GUI Design

#### Add Database Communication with Server

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### Task Board

Visual Studio Online /	Systemutvikling 2015			Hans-Petter Halvorsen   🏠 😊 ?
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Backlog items	Backlog Board Capacity			Group by Backlog items Person All 🄅 🗔
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Sprint 1	Introduction			What is System Engineering
Sprint 2 Sprint 3	Olav Dæhli			Hans-Petter H
Sprint 4	State New	+		
Sprint 5				
Sprint 6	Requirement Analysis		SRS	
	State New	_		
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	Software Design	ERwin	SDD	
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	State New	+	→ —	$\longrightarrow$
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	Database Communication fails		Drag and Drop Tasks	
	Hans-Petter Halv			
	State New	8		
	▲ Database Script not Working			
	Olav Dæhli			
	State New			
		+		



# **Visual Studio**

#### How-To use TFS/VSTS Features inside Visual Studio

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## Using TFS/VSTS with Visual Studio

- Connect to TFS/VSTS
- Add Source Code to TFS/VSTS
- Check In/Check Out
- Team Explorer
- Source Control Explorer

### **Open in Visual Studio**



## Sign in



## **TFS/VSTS** in Visual Studio

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				Solution Explorer Team Explorer

### Team Explorer + Source Control Explorer

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### Create local Folder on your Hard drive

Create a local Folder on your hard drive where you want to store your files (Documents, Code Files, etc.)

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### Workspace Mapping

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### Create a Folder Structure

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## Folder Structure Example

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### Upload/Check In Changes to the Server

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### The Folders are now available on the Server

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#### Add Source Code

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## Add Code to Source Control

Create a New Project, e.g. Windows Desktop

Make sure to Select this Option!!

		New Project		? 🗙
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Startup project		Rename			
	Ç	Open Folder in File Explorer			
	4	Properties	Alt+Enter		



## Get Latest Version

Before working on your Code, you should always get the latest version from the Server



## Editing your Code



The Code you are editing are checked out automatically

# Check in your Code when Finished

But before you check in your code you should first get the latest version from the server and make sure your Code Compile without Error!

Gen Solution	- '\\/;·	Earm App1! (1 project)				
⊿ √⊂# Win	*	Build Solution	F6			
Þ 🔒 🄑 I		Rebuild Solution				
		Clean Solution				
ι _γ≘ • Γ⊒• •		Run Code Analysis on Solution Alt+F11				
		Batch Build				
+		Configuration Manager				
▶ ♦	Ħ	Manage NuGet Packages for Solution				
≬ a c# I	[2	Enable NuGet Package Restore				
	Ē	New Solution Explorer View				
Solution Exp	莻	Show on Code Map				
Properties		Calculate Code Metrics				
WinFormAp		Add	•			
	Ф	Set StartUp Projects				
(Name)	ö	Get Latest Version (Recursive)				
Active cor	•	Check Out for Edit				
Descriptio  Check In						
Path		Source Control				
Startup pr		Source Control	•			

## Work Items – New Bug

New Bug 1*: WS is not working								
■ ×	😳 🎐 🄄 Copy template URL							
Tags Ad	d							
WS is	not working							
STATUS		CLASSIF	ICATION	PLANNING				
Assigned	To <no one=""></no>	<u>A</u> rea	Development Project	1\Desktop 🔹	Stack Rank	<none></none>		
Stat <u>e</u> Reason	Active	Ite <u>r</u> ation	Development Project :	1\Beta 👻	Priority	2 3 - Medium	•	
REPRO S	TEPS SYSTEM INFO TEST CASES			HISTORY ALL LINKS ATTACH	STORY ALLLINKS ATTACHMENTS			
В /	u 🏎 🗙 🏣 🚝 🚎 🏧			B/ ⊻ tas 🗙 🗄 🗄 =≣ =≣ 🖂				
	Nork Items are used to Ac	ld Itan	nc					
		lu iten	15					
1	to the Product Backlog, Re	port						
	Rugs etc. Lats of different	Work						
Dugs, etc. Lots of unreferit work								
	tems Types exists. You car		INCUSSION ONLY ALL CHANGES [No entries with comments]					
	create New Work Item Tyr							
· ·								

## Queries

- Used to find existing Work Items
- You may create different Queries to make it easy to find the Work Items you need
- Queries may be personal or visible for everybody in the project (Team Queries) New Query 1

results editor								
🔛 🔑 🍃 Column Options								
Type of	Query	Flat List	of V	Vork Items Tems and Direct Links	幅 Tree of Work Items	i		
Filters f	or top	level work item	าร					
	(日	And/Or		Field	Operator	Value		
<b>+ ×</b>				Team Project -		@Project •		
<b>+ ×</b>		And	•	Work Item Type	= ~~~	[Any] •		
<b>+ ×</b>		And	•	State	=	[Any]		
Add new clause								
Save query 🔃 🏞 🏂 🖾 🖂 🛛 Column Options								

	ID	Work Ite	Title	Assigned To	State	Tags
-	1	Bug	Database Error	Hans-Pett	Active	
	2	Task	Add Web functionality		New	
	4	Test Case	Test Empty Fields	Hans-Pett	Design	
	3	Test Case	Test Web Service	Hans-Pett	Design	
	5	Bug	WS is not working		Active	

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