# Visual Studio Licensing Review

Randy Pagels
Azure Specialist - Application Development
US Great Lakes Region



# Topics

- What are the current products
- What are Visual Studio Subscriptions
- Subscriber Benefits
- Azure DevOps
- Azure DevOps Licensing
- Developer Tools Deployment Planning assessments

## What are VS Subscriptions

Formerly Visual Studio with MSDN

### They are a bundle of 2 things:

- The Developer IDE/Tool
- Installed like an Office product
- Licensed Per Person







- Includes many items to complement software development
- Like a "magazine subscription" you have access to them while your subscription is active

- Key Subscription Items
  - Product Use Rights benefit to MSFT software for non-production use
    - Extends to usage in Azure
  - Software download site for past, present and future MSFT software
  - Other: Azure Monthly Credit, Pluralsight Training, Tech Support and more

Comparison Grid: https://www.visualstudio.com/vs/pricing/

## The Visual Studio family

Visual Studio Enterprise, Professional

Visual Studio for Mac

Azure DevOps

**MSDN Platforms** 

Visual Studio Test Professional

Azure DevOps

**Visual Studio App Center** 

Visual Studio Marketplace – both MSFT & IS\

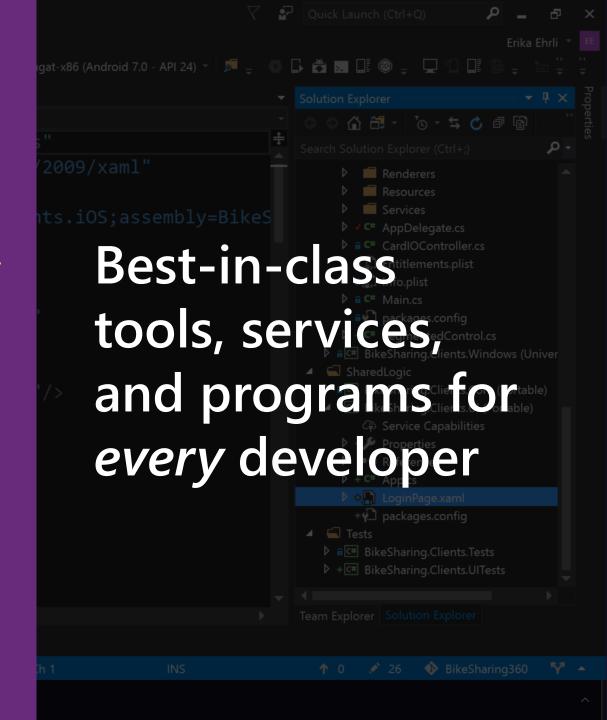
Visual Studio Community

Visual Studio Code

Developer Tools

Azure

Free



### THE VISUAL STUDIO FAMILY IS GROWING



**Visual Studio**6 million users



Visual Studio Code

2.6 million users



Visual Studio for Mac

Grew 230% since launch



**Azure DevOps**Grew 40% YoY



Visual Studio App Center

General availability today!

## The Visual Studio Subscription Family

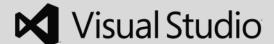
https://www.visualstudio.com/vs/compare/



**Enterprise Subscription** 

Microsoft DevOps Solution for Productivity and Coordination Across Teams

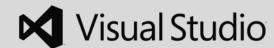
- Advanced productivity features with real-time insights and feedback on code and quality.
- Full support across the DevOps lifecycle.
- Plan, execute and monitor your entire testing effort.
- Includes enhanced subscription benefits with access to most Microsoft software, cloud credits



**Professional Subscription** 

Professional Developer Tools and Services for Small Teams

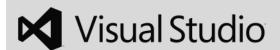
- Development of modern applications and services for Android, iOS, Windows, web, cloud and desktop.
- Fully extensible.
- Includes training, support and cloud credits as part of subscription benefits.
- ✓ No usage restrictions.



Test Professional Subscription

Specialized toolset for testers to plan, execute and track your testing efforts

- Optimized tools for testers that facilitates collaboration between test, development and operations.
- Streamline your release processes without sacrificing quality.
- Includes training, support and cloud credits as part of subscription benefits.



**MSDN Platforms** 

Microsoft software & team collaboration for IT Pros and Testers

- Includes Dev & Testdownloads for all MicrosoftServer Software
- Excludes development IDE, to focus specifically on Testers & IT Pro needs
- Ideal for IT Ops and nondevelopers

**Tech Support** 

Dev/Test Software

**Technical Training** 

Dev Tools Services Cloud credits Extensions

# Visual Studio Professional vs Enterprise

#### **Enterprise Edition**

Request and manage Feedback

Code Coverage

IntelliTest

Fakes Framework

Code Clone

Code Map debugger integration

IntelliTrace

IntelliTrace in Production

IntelliTrace Performance Indicators

.NET Memory Dump Analysis

**Architecture Validation** 

Layer Diagrams

**UML** Modeling

Test Case Management (inc Web)

**Manual Testing** 

Test Case Fast Forward

**Exploratory Testing** 

Coded UI Testing

Lab Management

Web Performance Testing

Load Testing (Inc cloud)

#### **Professional Edition**

Code Review

CodeLens

**Unit Testing** 

Static Code Analysis

**Peek Definition** 

Code Maps (Read Only)

Code Metrics

Task Suspend/Resume

Work Item Charting (Read only)

Team Rooms

**Build automation** 

**Sprint Planning** 

Agile Portfolio Management

Task and Kanban Boards

Backlog Management

**TFVC or GIT Version Control** 

Extensible testing framework

Page Inspector

Web based test execution

Powerpoint Storyboarding

Android Emulator

Team Explorer

Team Explorer Everywhere

Blend for Visual Studio

Windows & Web Development

Office & SP Development

Windows App Store Dev

Browser Link

LightSwitch

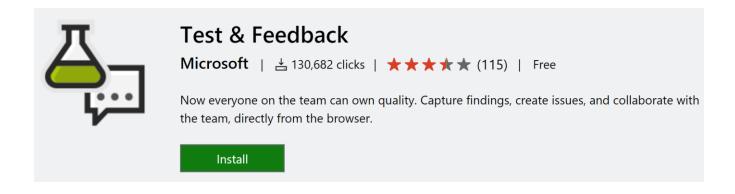
ture Comparison	Professional	Enterprise	
Build software for the web, PC, or devices	•	•	
Support for agile development methodologies	•	•	
Create mobile apps for Android, iOS, and Windows	•	•	
Visual Studio App Center	•	•	
Testing, quality assurance, release and lab management		•	
Coded UI		•	
Microsoft Fakes (Unit Test Isolation), Code Clone, Code Coverage		•	
Live Unit Testing		•	
Intellitest (smart unit testing)		•	
Architectural discovery, design, Code Mapping, and enforcement		•	
IntelliTrace		•	
Package Management		•	
Private Pipelines		•	
Unlimited load and performance testing		•	
Redgate Data Tools		•	
Xamarin embedded assemblies, live inspection, & profiler		•	
Xamarin University	for select videos only	for select videos only	
Pluralsight training	Full subscription for 3 months	Full subscription for 6 mon	
Office Professional Plus 2016 for Production and O365 Developer subscription (up to 25 seats)		•	
Credit to use for dev/test services on Microsoft Azure	\$50/mo.	\$150/mo.	
Azure Dev/Test pricing	•	•	

## Visual Studio Test Professional

Team Room	Agile Portfolio Management	Web based test execution
Manual Testing	Lab Management	Web based test case management
Exploratory Testing	Backlog Management	PowerPoint Storyboarding
Test Case Management	Sprint Planning	Request & Manage Feedback
Fast Forward on Manual Testing	Task and Kanban Boards	Team Explorer & TFS CAL
TFVC or GIT Version Control	Release Management	Work Item Charting
Build Automation	Work item tracking	Team Explorer Everywhere

## Test & Feedback extension

The Test & Feedback FREE extension is available from the Visual Studio Marketplace.



Capture findings, create issues, and collaborate with the team, directly from the browser.

Any platform: Windows, Mac, or Linux. Available for Google Chrome and Mozilla Firefox.

### **Test & Feedback Extension**

#### **Capture**

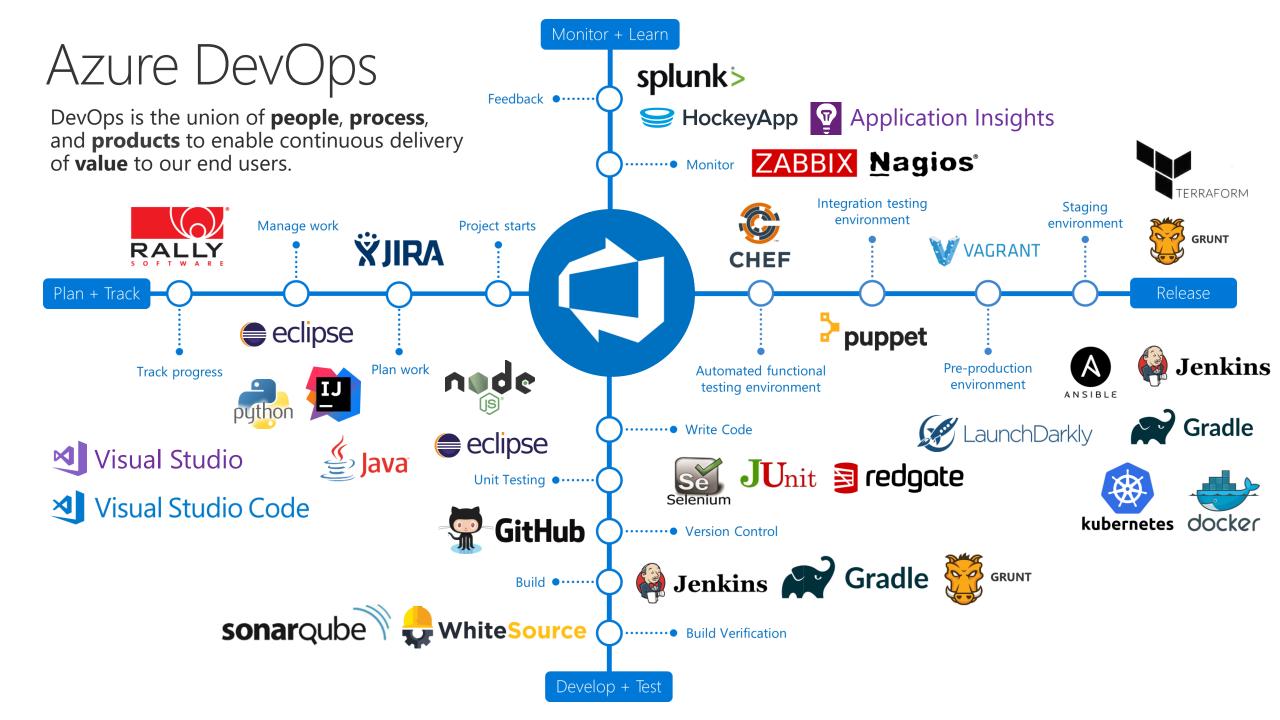
- Screenshots
- Notes
- Screen Recordings
- Image action log
- Page load data

#### Create

- Bugs
- Tasks
- Test cases
- Feedback responses

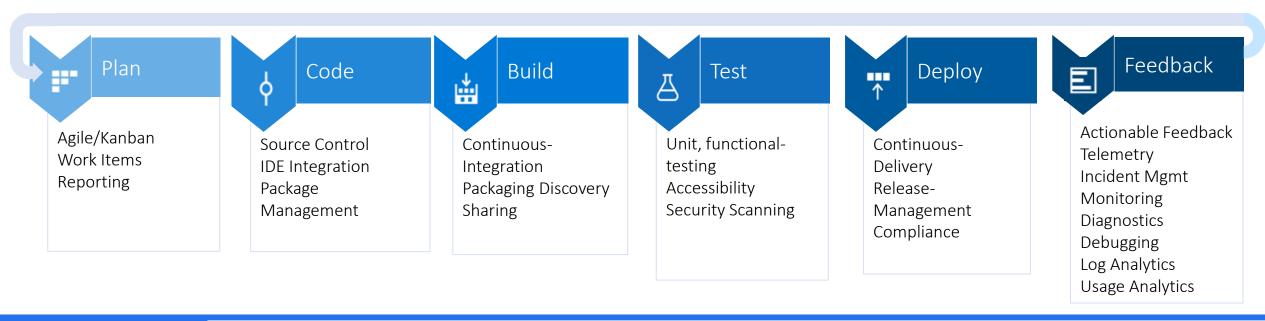
#### **Collaborate**

- Feedback Requests
- Session Insights
- Session Reports



## Azure DevOps

- Complete and Feature Rich End-to-End DevOps Solution
- Open with strong 3<sup>rd</sup> Party and OSS marketplace
- Traceability for each step along the way



Open, Flexible



























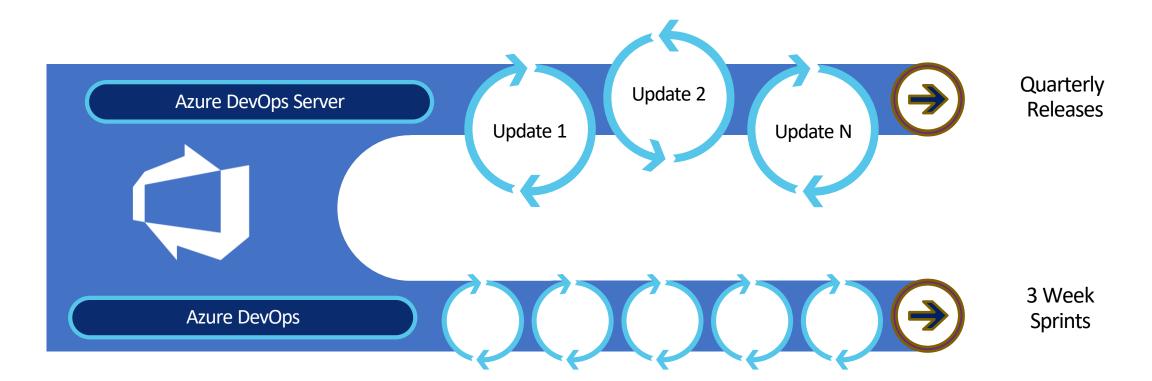




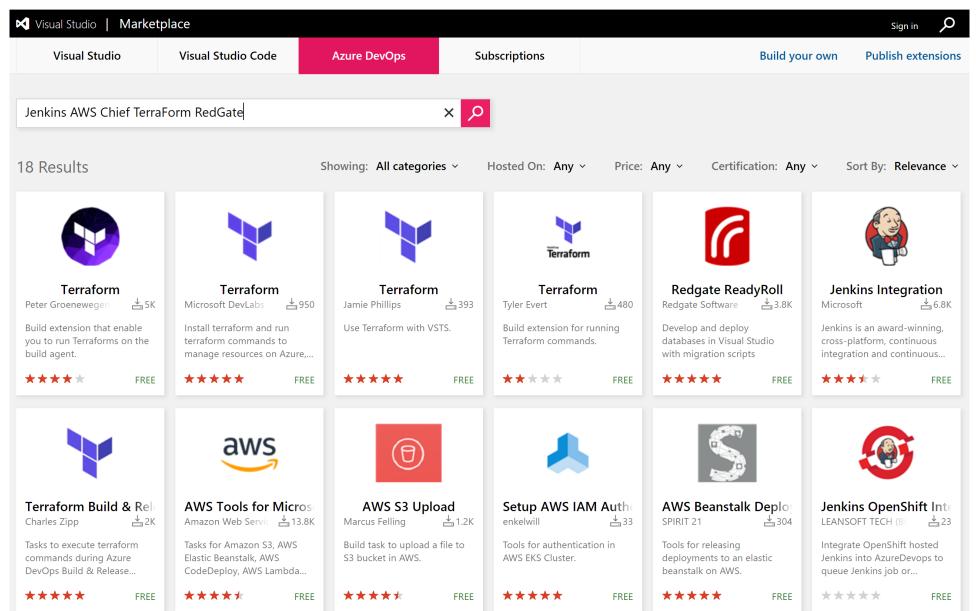


## Release Cadence

- Hybrid Solution with One Code Base
- Cloud first, then on-premises
- Azure DevOps 3 Week Sprint
- Azure DevOps Server Quarterly Releases



# Get 3<sup>rd</sup> Party Extensions in the VS Marketplace



## Azure DevOps Services Pricing

#### INDIVIDUAL SERVICES

#### **Azure Pipelines**



1 Free Microsoft-hosted CI/CD 1 Free Self-Hosted CI/CD

#### Start free >

- 1 hosted job with 1,800 minutes per month for CI/CD and 1 self-hosted job with unlimited minutes per month
- Then \$40 per extra Microsoft-hosted CI/CD parallel job and \$15 per extra selfhosted CI/CD parallel job with unlimited minutes

#### **Azure Artifacts**



2 GB free, then starting at \$2 per GB

#### Start free >

- Industry-leading NuGet Server
- Support for Maven, npm, and Python packages
- Upstream sources to help protect opensource dependancies
- Integrated with Azure Pipelines
- Sophisticated access controls

#### USER LICENSES

#### **Basic Plan**









First 5 users free, then \$6 per user per month

#### Start free >

- Azure Pipelines: Includes the free offer from INDIVIDUAL SERVICES
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited private Git repos
- Azure Artifacts: 2 GB free
- Load testing (20,000 VUMs/month)

#### Basic + Test Plans











\$52 per user per month

#### 30 day free trial >

- Includes all Basic plan features
- Test planning, tracking & execution
- Browser-based tests with annotation
- Rich-client test execution
- User acceptance testing
- Centralized reporting



Cloud, hybrid or on-premises

### Cloud build

Azure DevOps provides hosted build agents to start building your projects immediately, as well as a flexible build system that allows you to install your own agents. Our hosted build agents are pre-configured and flexible and can run custom build activities as well as your own build process templates or custom scripts.

## Hybrid infrastructure

If your build process requires resources outside of the hosted build agents' capabilities, then you can connect on-premises build agents to your hosted team project collection. Or, quickly scale out your on-premises build infrastructure easily by adding hosted build agents.



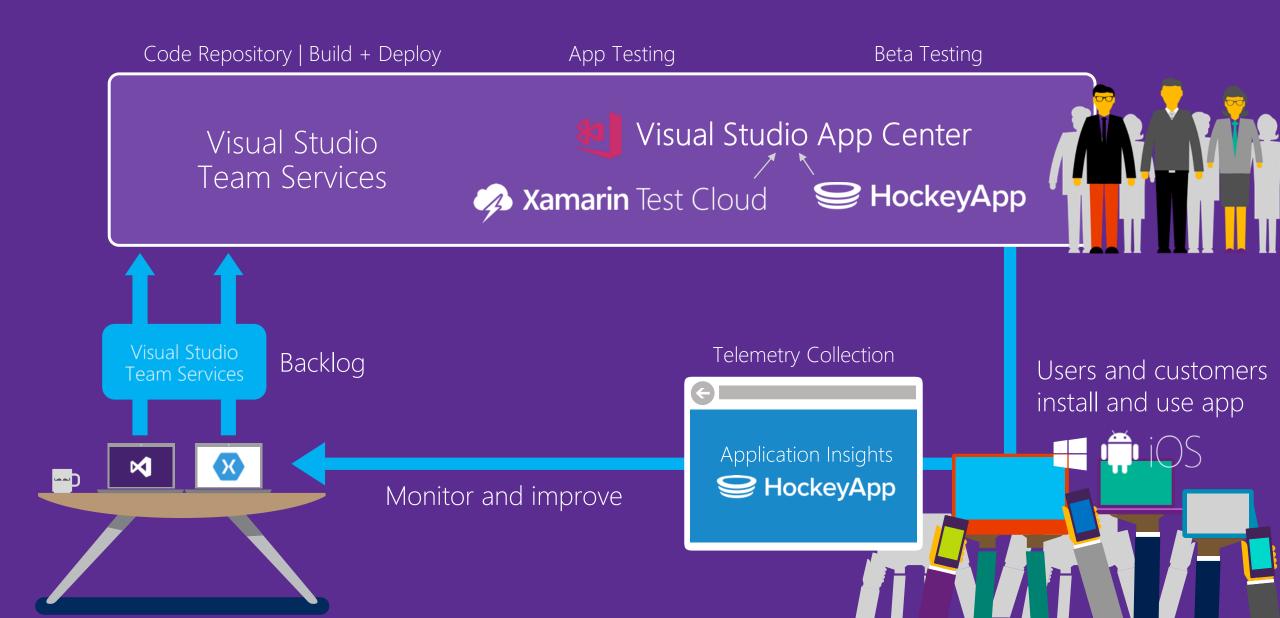
# Enterprise DevOps Accelerator Offer

Everything you need to accelerate your transformation to DevOps

- Limited time offer for teams looking to modernize their tool chains
- Targeted at mid-sized to large development teams
- Combines client tools & team based DevOps cloud services
- For both .Net and non .Net teams.
- FastTrack engagement:
  - a dedicated, high-touch engagement focused on planning for DevOps environment including the people, process and tools.
- Cost is over 50% off regular pricing.

		Level 1	Level 2	Level 3
DevOps services	Team Services users (Basic/Core Features)	50 users	100 users	250 users
for your team	Package Management users	50 users	100 users	250 users
	Test Manager users	50 users	100 users	250 users
	Build & Release Hosted Pipelines (concurrent builds/releases)	10 pipelines	20 pipelines	50 pipelines
	Build & Release Private Pipelines (concurrent builds/releases)	25 pipelines	50 pipelines	125 pipelines
	WhiteSource Bolt (first year only)	50 projects	100 projects	250 projects
	<u>Cloud-based Load Testing</u> virtual user minutes per month	1,000,000	2,000,000	1,000,000
	VS App Center Test run tests on real iOS and Android devices	6 concurrent devices	12 concurrent devices	30 concurrent devices
	<u>HockeyApp beta</u> distribution, crash reporting, and analytics on your mobile device apps	Included in App Center	Included in App Center	Included in App Center
Cloud Labs	Enterprise Dev/Test offer, offering discounts on VMs from 40-90%	100 users	200 users	500 users
Developer training and support	Tech support (4 incidents per VS Enterprise subscriber)	50 users	100 users	250 users
ана зарроте	<u>Pluralsight</u> online training (6 months/for each VS Enterprise subscriber)	50 users	100 users	250 users
	LinkedIn Learning subscription (6 months)	50 users	100 users	250 users
Tools	<u>Visual Studio Enterprise subscription</u> (includes virtually all Microsoft software for dev/test)	50 users	100 users	250 users
	Additional dev/test software licenses, equal to MSDN Platforms—use with Visual Studio Code or your own IDE	50 users	100 users	250 users
DevOps FastTrack Consulting	On-site consulting engagement for DevOps and/or Visual Studio Team Services migration	2 weeks	2 weeks	2 weeks

# Microsoft's end-to-end mobile DevOps solution

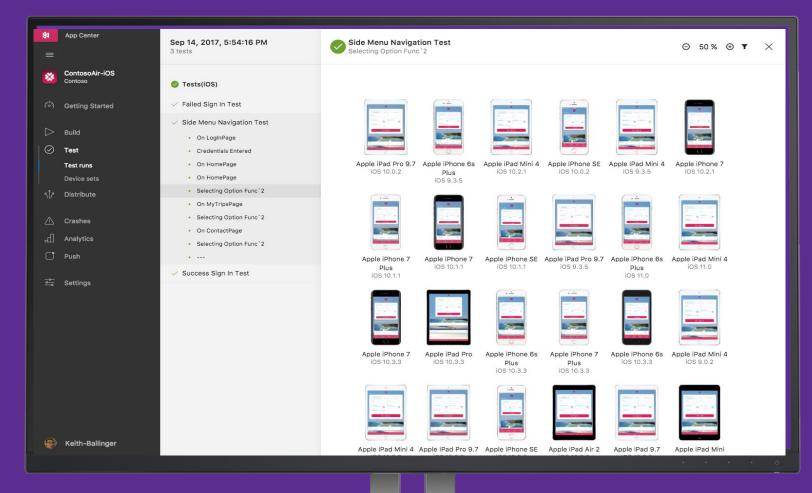


# Visual Studio App Center

### Predefined for Mobile Apps

- Combines powerful tools into one experience
- HockeyApp
  - Distribution, crashes & Analytics
- Xamarin Test Cloud
  - Device Testing
- Xamarin Insights
  - Crashes & Analytics
- Azure Mobile Engagements
  - Targeting Analytics
- Azure App Service
  - Tables, Auth, Push
- CodePush
  - Distribution

## aka.ms/vsappcenter





# Visual Studio Product Changes

- Summer 2015, MSFT reduced the number of developers SKUs from 3 to 2
- Ultimate & Premium became Enterprise, Professional remained the same
- The price for Enterprise was reset closer to the price of Premium

Visual Studio
Ultimate
with MSDN

- Historical Debugging
- IntelliTrace in Production
- Web Performance Testing
- Unlimited Load Testing
- Visual Debugging with Code Maps
- CodeLens
- And more

Visual Studio
Premium
with MSDN

- Code Metrics
- Code Coverage
- Coded UI Testing
- Code Clone
- Code Review
- Task Suspend/Resume
- Microsoft Fakes
- And more

Visual Studio **Enterprise** with MSDN IntelliTest



- Performance & Diagnostics Hub
- IntelliTrace Viewer
- And more
- Historical Debugging
- IntelliTrace in Production
- Web Performance Testing
- Unlimited Load Testing
- Visual Debugging with Code Maps
- CodeLens
- And more
- Code Metrics
- Code Coverage
- Coded UI Testing
- Code Clone
- Code Review
- Task Suspend/Resume
- Microsoft Fakes
- And more

## Understanding Subscription Benefits

Subscription Benefits act as a lifeline for software developers, testers, architects, IT professionals, database engineers, and others. It provides priority access to new and earlier versions of Microsoft products, including developer tools, operating systems, server software, and productivity applications.

One person can use the software to design, develop, test, or demonstrate his or her programs on any number of devices. An MSDN subscription also allows the licensed user to evaluate the software and to simulate customer environments in order to diagnose issues related to his or her programs. Subscribers can use the software on as many PCs and devices as needed, which saves a great deal of expenses on software license costs during development.

Additionally, activated subscribers can run their MSDN software in Windows Azure Virtual Machines, providing greater flexibility for developing and testing apps. This cloud use right applies to all software included in the MSDN subscription, except Windows client and Windows Server.

Subscriptions can include Windows Azure, technical support incidents, Store developer accounts, Microsoft E-Learning, priority support in MSDN Forums, MSDN Magazine, and more.

#### Overview of Active Subscription benefits<sup>1</sup>

Comprehensive offering for software development: Active subscriptions provide access to virtually all Microsoft software for development and test purposes. By being able to test on everything Microsoft has to offer, you help reduce the cost of your development environment and reduce the risks of custom development projects.

Simple, cost-effective, per-user licensing: Active subscriptions are easy to license – one license per user is all that is needed. The alternative - which is to purchase individual licenses for operating systems, servers, and tools - is less cost-efficient and harder to manage.

One-stop shop: By having access to all the software, support, and information they need in one location, developers can be more productive and deliver higher-quality code.

Past, present, and future: Subscription benefits provide the latest editions of Microsoft products, many versions dating back for more than a decade, and prerelease versions to try out so that subscribers are always prepared for what's next.

Connect across your team – on premise or in the cloud: Active subscriptions include Visual Studio Team Foundation Server and one Client Access License, providing the solid communication, collaboration, and application lifecycle management tools your developers need to ensure that software gets built fast and gets built right. Or take your ALM solution to the cloud with Visual Studio Team Services, an end-to-end solution that handles the critical elements of lifecycle management. It's kept up-to-date with the latest tools, including traditional version control and Git repositories, enterprise agile portfolio management, and team room collaboration.

Cloud development: Develop and test applications faster, at reduced cost, and with the flexibility to deploy in the cloud or on-premises. Active subscribers receive up to \$150 in monthly credit to use on any Windows Azure service.

**Store access:** Active subscriptions include developer accounts for Windows, Windows Phone and Office Stores so your developers can post their free or paid apps for the world to try and buy.

Training: Active subscriptions include training resources that can be used to expand your development teams' skills, while reducing your training costs.

Help & Support: With tech support incidents, priority support in MSDN Forums and online concierge, your developers will have all the help & support they need at their fingertips.

#### Licensing information

Visual Studio subscriptions are licensed on a per-user basis. One person can use the software to design, develop, test, or demonstrate programs on any number of devices. Any current active subscriber who has activated their subscription is licensed to run the subscriber software (except for Windows Azure Virtual Machines, providing greater flexibility for developing and testing their applications.

Each person who uses the software this way needs a license. More information is available in the **Visual Studio licensing white paper.** http://aka.ms/vslicensing

Sub	scription Comparison	VS Enterprise	VS Professional	VS Test Professional	MSDN Platforms
	Visual Studio IDE edition	Enterprise	Professional	Test Professional	
	Visual Studio for Mac	•	•		
	Visual Studio Team Foundation Server 2013 and one CAL	•••	•	•••	••
	Visual Studio Team Services	Basic	Basic	Basic	Basic
Tools	Microsoft Azure dev/test subscription with monthly credit	\$150/month	\$50/month	\$50/month	\$100/month
	Microsoft Azure pay-as-you-go dev/test subscriptions	•	•	•	•
	EMS / PowerBI	• / •			
	Windows Store and Windows Phone developer account	•	•	•	
	Office 365 Developer Subscription	•			
	Windows, Windows Server, SQL Server	•	•	•	•
Software	Microsoft Dynamics, all other servers (including R, SharePoint and Exchange)	•			•
	Microsoft Office Professional Plus 2016 (dev/test & production use-1 device)	•			
	Pluralsight training	Full catalog 6 months	Full catalog 3 months	Full catalog 3 months	Full catalog 3 months
Calvantina	Xamarin University (select on-demand courses) / MSDN Magazine	•	•	•	•
Education	Opsgility – Microsoft Cloud-focused training	Full Subscription 12 months	Full Subscription 6 months		
	Microsoft E-Learning course collections	2	1	1	2
	Technical support incidents	4	2	2	2
Support	Priority support in select MSDN Forums / MSDN Online Chat	• / •	• / •	• / •	• / •
	Priority support in select TechNet Forums				•
Entropione	Package Management	•			
Extensions	Code Search, Exploratory Testing, Test Manager	•		•	•
	Exclusive offers from Visual Studio Industry Partners	•	•	•	•
	Redgate Data tools	•			
3 <sup>rd</sup> Party Benefits	Pluralsight – 10% off annual price of full subscription	•	•	•	•
	eDev – 6 month subscription to SmartOffice4TFS / InteGREAT4TFS	•			
	WhiteSource – 6 month subscription to Bolt extension	•			
	Parasoft – 6 month subscription to Virtualize / SOAtest Desktop	•			