

Tour the Genesys Cloud Dev Environment

An Azure Cloud Quick-Start

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What is the Genesys Cloud Dev Environment?

Genesys Cloud Dev Environment is a Quick-Start Azure Server + Open .NET Stack
...for developers who need in-cloud cross-platform apps, up in 15 minutes, a low learning curve, total under \$45 usd/mo.

Links and Downloads

Azure VMs x 3 - Cloud Dev Environment on Azure (each sold separately) <ul style="list-style-type: none">> VM 1: IIS Web Server [Server 1 of 3] (starting at \$15 usd/mo)> VM 2: SQL Server [Server 2 of 3] (starting at \$15 usd/mo)> VM 3: Visual Studio + IIS + SQL Server [Server 3 of 3] (starting at \$29 usd/mo)	Download the Free Genesys Source Framework without Azure Servers <ul style="list-style-type: none">> Genesys Framework for MVC (Free, no CC required)> Genesys Framework for Web API (Free, no CC required)> Genesys Framework for WPF (Free, no CC required)> Genesys Framework for Universal (Free, no CC required) Genesys Source GitHub Repos
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1: Cloud Dev Environment and Genesys Framework Links and Downloads

Azure Cost Cheat Sheet

Azure is Microsoft's cloud for public, private, government and business use. Azure is subscription-based, which *costs you \$0 until you purchase a product from the Azure Marketplace* at azuremarketplace.com or in your cloud portal at portal.azure.com.

Once you install a marketplace product, the subscription cost begin. And yes, some components can cost much more than you are willing to pay. Follow some simple rules to ensure your costs stay low.

- Rule 1:** Creating resources (like VMs) do not cost, running them does
- Rule 2:** Deleting resources stops the consumption costs
- Rule 3:** Change size/plan to adjust the cost down
- Rule 4:** Only turn-on what you need, leave the rest default/off (i.e. backups, always-alive)
- Rule 5:** Add the *Spending Rate and Forecast* tile to your Dashboard and follow it daily

2: 5 Rules of low Azure Costs

What Azure Items are Free?	Watch out for Added Costs!
<ul style="list-style-type: none">\$ Microsoft Azure accounts are 100% free\$ Azure Subscriptions are 100% free\$ IIS Web Apps on SQL Express are 100% free\$ VisualStudio.com code repos are 100% free\$ VMs Stopped (deallocated) are mostly free	<ul style="list-style-type: none">! Running VMs: Stop the VM for near-zero cost! Backups: Vault items cost hourly! Storage Account: Copying off-of-Azure costs \$\$! Always-Alive: Always-alive web sites cost hourly

3: Azure Cost Cheat Sheet

What is included in the Genesys Cloud Dev Environment?

Genesys Cloud Dev Environment is *3 Azure Servers + .NET Stack Quick-Start* solution with the goal of painlessly getting your Apps on the Azure cloud with n-tier reusable cross-platform full-stack business objects.

Economically priced starting at \$15 usd/mo. And a free month is included for those who want to try-before-buy.

What Azure Server Virtual Machines are included?

- **Cloud Environment 2017 Web Server [Server 1 of 3]:** IIS Web Server VM on Windows Server 2016 Datacenter. Starting at \$15 usd/mo., first 30-days are FREE.
- **Cloud Environment 2017 SQL Server [Server 2 of 3]:** SQL Server 2016 on Windows Server 2016 Datacenter. Starting at \$15 usd/mo., first 30-days are FREE.
- **Cloud Environment 2017 Dev Machine [Server 3 of 3]:** Visual Studio 2017, IIS, SQL Server on Windows Server 2016 Datacenter. Starting at \$29 usd/mo., first 30-days are FREE.

Do I need all 3 Azure Servers?

No. The value to all 3 servers is to get a 100% pre-configured already-running development environment in 15 minutes with no setup required. Each server works independently of the others.

- **Already have a Web Server on Azure?** Then skip our Web Server and get only the Cloud Environment 2017 SQL Server [Server 2 of 3]. On your Web Server, change the connection strings to point to your SQL Server.
- **Already have a SQL Server on Azure?** Then skip our SQL Server and get only the Cloud Environment 2017 Web Server [Server 1 of 3]. On your SQL Server, install the *Framework.Database* SSDT project's *FrameworkData* database. On your Web Server, configure the connection strings to point to your Azure SQL Server.
- **Already have a Visual Studio dev machine?** You can download the Free Genesys Source Framework and publish directly to the Cloud Dev Environment Azure Web and SQL Servers...eliminating the need to buy the Cloud Environment 2017 Dev Machine [All-In-One].

What Quick-Start .NET Stack is included with the servers?

The IIS Web Server VM and the SQL Server VM are pre-configured with the Genesys Framework Quick-Start .NET Stack...pre-setup and already-running MVC, Web API, WPF, Universal and SSDT projects. The full list of included Genesys Framework .NET projects are:

- **Framework.Database:** SSDT project's *FrameworkData* SQL database
- **Framework.DataAccess:** Entity Framework data-access-object C# project

- **Framework.Interfaces:** Cross-platform “contract” project to guarantee object consistency in every app and tier, especially for object deserialization
- **Framework.Models:** Cross-platform Models that bind to screens in any .NET technology, such as MVC, UWP, Xamarin iOS, Xamarin Android, Web Forms, Win Forms, etc.
- **Framework.WebApp:** MVC C# app setup as 2-tier for simplicity
- **Framework.WebServices:** Web API C# app setup as 2-tier against *Framework.Database* for simplicity
- **Framework.DesktopApp:** WPF C# app setup as 3-tier against *Framework.WebServices*.
- **Framework.UniversalApp:** UWP C# app setup as 3-tier against *Framework.WebServices*.

Is there a High Price for Azure VMs?

No. Low Cost has been address through the “Free” and “Shared” plans for Virtual Machines, which are priced under \$20 per month. Costs can grow, please refer to the *Azure Cost Cheat* and the Azure cost calculator for more information. <https://azure.microsoft.com/en-us/pricing/calculator>

Is there a High Learning Curve Azure VMs?

No. Microsoft has made their Virtual Machines almost identical to their on-premises counterparts. You have a windows desktop, control panel, local disk C: drive...as well as significant control over common hardware components such as NIC card, Firewalls, DHCP, etc.

Is there a High Learning Curve for reusable cross-platform business objects?

No. Cloud Dev Environment comes with the Genesys Framework pre-setup and already-running. You have a fully-working, fully-debug-able, n-tier, cross-platform, full-stack .NET “backbone” for your app.

Genesys Framework is simple, standard, already-running .NET Quick-Start stack.

You DO need to know basic .NET development and infrastructure

- **Moderate:** Development with one or more .NET app types (Web Sites, Web Services, Desktop Apps, Mobile Apps, etc.)
- **Moderate:** Development or Administration of SQL Server OLTP transactional databases.
- **Low:** Awareness of a physical 2-tier, and a logical 3-tier infrastructure.
- **Low:** Awareness of Microsoft Azure cloud portal at <http://portal.azure.com>

You DO NOT need to thoroughly know new tech/concepts

Why not? The Cloud Dev Environment helps educate-through-example for...

Presentation Tier	Middle and Data Tier	High-Level Concepts
✓ ASP.NET MVC, ASP.NET Web API	✓ SQL Server Data Tools (SSDT)	✓ Azure Infrastructure Setup and Architecture
✓ WPF, Universal, Xamarin	✓ Entity Framework and ADO.NET	✓ .NET software stack Setup and Architecture

✓ Cross-Platform Libraries

| ✓ Serialization, Validation, Audit Trails





| ✓ Cohesion and Lightly Coupling

Tech used by the Cloud Dev Environment

ASP.NET MVC Razor | ASP.NET Web API | WPF | Universal | Xamarin iOS | Xamarin Android
Portable Class Library | .NET 4.6 | C# 6 | .NET Core | .NET Standard
SSDT | Entity Framework 6 | ADO.NET | HTML 5 | CSS 3 | Bootstrap 3 | jQuery

Getting Help

Have a question? Have a problem? Contact us anytime...

Contact Genesys Source	Help and Guidance	On Social
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