

Programming Windows Azure

Microsoft Azure

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Microsoft Azure, sometimes stylized Azure, and formerly Windows Azure, is the cloud computing platform developed by Microsoft. It offers management, access and development of applications and services to individuals, companies, and governments through its global infrastructure. Microsoft Azure supports multiple programming languages, tools, and frameworks, including Microsoft-specific and third-party software and systems.

Azure was first introduced at the Professional Developers Conference (PDC) in October 2008 under the code name "Project Red Dog". It was officially launched as Windows Azure in February 2010 and later renamed to Microsoft Azure on March 25, 2014.

== Services ==

Microsoft Azure uses large-scale virtualization at Microsoft data centers worldwide and offers more than 600 services. Microsoft Azure offers a service level agreement (SLA) that guarantees 99.9% availability for applications and data hosted on its platform, subject to specific terms and conditions outlined in the SLA documentation.

Azure Web Apps

2013. Microsoft Azure Web Sites was originally named Windows Azure Web Sites, but was renamed as part of a re-branding move across Azure in March 2014.

Azure Web Apps was the name for a cloud computing based platform for hosting websites, created and operated by Microsoft. It is a platform as a service (PaaS) which allows publishing Web apps running on multiple frameworks and written in different programming languages (.NET, node.js, PHP, Python and Java), including Microsoft proprietary ones and 3rd party ones. Microsoft Azure Web Sites became available in its first preview version in June 2012, and an official version ("General Availability") was announced in June 2013. Microsoft Azure Web Sites was originally named Windows Azure Web Sites, but was renamed as part of a re-branding move across Azure in March 2014. It was subsequently renamed "App Services" in March 2015.

== History ==

Microsoft initially offered a basic web hosting service as part of Office Live Small Business, which was launched in late 2007. Office Live Small Business offered customers free and commercial web hosting with a built-in system for creating websites based on built-in templates and a site creation wizard.

When Microsoft started allocating resources into developing its numerous cloud solutions, a group was formed in Microsoft Azure to develop Microsoft...

Microsoft Azure Dev Tools for Teaching

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is a Microsoft program to provide students with Microsoft software design

Microsoft Azure Dev Tools for Teaching or simply Azure Dev Tools for Teaching is a Microsoft program to provide students with Microsoft software design, Microsoft developer tools, Cloud Computing Access and learning resources. The program is available for university/college and K-12 students Azure for Student and Azure Dev Tools for teaching are available in more than 140 countries.

It has formerly been known as Microsoft Imagine, DreamSpark and MSDN-AA.

Azure Dev Tools for Teaching (previously known as Microsoft Imagine Standard and Premium) is a subscription-based offering for accredited schools and departments providing access to tools commonly used in science, technology, engineering, and math (STEM) programs. It gives teachers and students tools, software, and services from Microsoft that are used by professional developers and designers.

Many academic institutions provide information and resources for Azure Dev Tools for teaching and Azure for students under their academic IT Services support pages; see the following example from a university from around the world .

1. University of Pittsburgh
2. Queen University
3. University of Sussex

== History ==

All students get access to...

Azure Linux

the Azure Stack HCI implementation of Azure Kubernetes Service. Microsoft also uses Azure Linux in Azure IoT Edge to run Linux workloads on Windows IoT

Azure Linux (previously CBL-Mariner), is a free and open-source Linux distribution developed by Microsoft and, starting with v4.0, based on Fedora Linux. It is the base container OS for Microsoft Azure services and the graphical component of WSL 2.

== Overview ==

Azure Linux is being developed by the Linux Systems Group at Microsoft for its edge network services and as part of its cloud infrastructure. The company uses it as the base Linux for containers in the Azure Stack HCI implementation of Azure Kubernetes Service. Microsoft also uses Azure Linux in Azure IoT Edge to run Linux workloads on Windows IoT, and as a backend distro to host the Weston compositor for WSLg.

In a similar approach to Fedora CoreOS, Azure Linux only has the basic packages needed to support and run containers. Common Linux tools are used to add packages and manage security updates. Updates are offered either as RPM packages or as complete disk images that can be deployed as needed. Using RPM allows adding custom packages to a base Azure Linux image to support additional features and services as needed. Notable features include an iptables-based firewall, support for signed updates, and a hardened kernel.

Microsoft...

Windows Terminal

PowerShell, Windows Subsystem for Linux, Azure Cloud Shell Connector, and will add other shell applications automatically after installation. Windows Terminal

Windows Terminal is a multi-tabbed terminal emulator developed by Microsoft for Windows 10 and later as a replacement for Windows Console. It can run any command-line app in a separate tab. It is preconfigured to run Command Prompt, PowerShell, Windows Subsystem for Linux, Azure Cloud Shell Connector, and will add other shell applications automatically after installation. Windows Terminal comes with its own rendering back-end; starting with version 1.11 on Windows 11, command-line apps can run using this newer back-end instead of the old Windows Console.

Since Windows 11 22H2 and Windows Terminal 1.15, Windows Terminal replaces Windows Console as the default terminal application.

== History ==

Windows Terminal was announced at Microsoft's Build 2019 developer conference in May 2019 as a modern alternative for Windows Console, and Windows Terminal's source code first appeared on GitHub on May 3, 2019. The first preview release was version 0.2, which appeared on July 10, 2019. The first stable version of the project (version 1.0) was on May 19, 2020, at which point, Microsoft started releasing preview versions as the Windows Terminal Preview app, which could be installed side-by-side...

Windows Server 2008

Windows Server 2008, codenamed "Longhorn Server" is the seventh major version of the Windows NT operating system produced by Microsoft to be released under

Windows Server 2008, codenamed "Longhorn Server" is the seventh major version of the Windows NT operating system produced by Microsoft to be released under the Windows Server brand name. It was released to manufacturing on February 4, 2008, and generally to retail on February 27, 2008. Derived from Windows Vista, Windows Server 2008 is the successor to Windows Server 2003 R2 and the predecessor to Windows Server 2008 R2. It removed support for computers without ACPI, and is the first version that includes Hyper-V.

It is the last version of Windows Server that supports 32-bit processors (IA-32).

As of July 2019, 60% of Windows Servers were running Windows Server 2008.

== History ==

Microsoft had released Windows Vista to mixed reception, and their last Windows Server release was based on Windows XP. The operating system's working title was Windows Server Codename "Longhorn", but was later changed to Windows Server 2008 when Microsoft chairman Bill Gates announced it during his keynote address at WinHEC on May 16, 2007.

Beta 1 was released on July 27, 2005; Beta 2 was announced and released on May 23, 2006, at WinHEC 2006 and Beta 3 was released publicly on April 25, 2007. Release Candidate...

Windows Server 2008 R2

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Windows Server 2008 R2, codenamed "Windows Server 7" is the eighth major version of the Windows NT operating system produced by Microsoft to be released under the Windows Server brand name. It was released to manufacturing on July 22, 2009, and became generally available on October 22, 2009, the same respective release dates of Windows 7. It is the successor to the Windows Vista-based Windows Server 2008, released the previous year, and was succeeded by the Windows 8-based Windows Server 2012.

Enhancements in Windows Server 2008 R2 include new functionality for Active Directory, new virtualization and management features, version 7.5 of the Internet Information Services web server and support for up to 256 logical processors. It is built on the same kernel used with the client-oriented Windows 7, and is the first server operating system released by Microsoft which dropped support for 32-bit processors, an addition which carried over to the consumer-oriented Windows 11.

It is the final version of Windows Server that includes Enterprise and Web Server editions, the final that got a service pack from Microsoft and the final version that supports IA-64 and processors without PAE, SSE2...

List of Remote Desktop Protocol clients

to Windows 365, Azure Virtual Desktop, and Microsoft Dev Box instances. Additionally, on non-Windows platforms excluding the browser, the Windows App

Remote Desktop Protocol clients allow users to connect to servers running Remote Desktop Services, Azure Virtual Desktop, or non-Microsoft server software to enable remote desktop functionality. Since the release of Remote Desktop Connection, there have been several additional Remote Desktop Protocol clients created by both Microsoft and other parties.

== By Microsoft ==

Windows Server 2016

Windows Server 2016 is the eleventh major version of the Windows NT operating system produced by Microsoft to be released under the Windows Server brand

Windows Server 2016 is the eleventh major version of the Windows NT operating system produced by Microsoft to be released under the Windows Server brand name. It was developed alongside Windows 10 and is the successor to the Windows 8.1-based Windows Server 2012 R2. The first early preview version (Technical Preview) became available on October 1, 2014 together with the first technical preview of System Center. Windows Server 2016 was released on September 26, 2016 at Microsoft's Ignite conference and reached general availability on October 12, 2016.

It was succeeded by Windows Server 2019 and the Windows Server Semi-Annual Channel, which was released in 2017. Mainstream support for Windows Server 2016 ended on January 11, 2022, and extended support will end on January 12, 2027.

== Features ==

Windows Server 2016 has a variety of new features, including

Windows 10 editions

editions of Windows 10 available to device manufacturers for use on specific classes of devices, including IoT devices, and previously marketed Windows 10 Mobile

Windows 10 has several editions, all with varying feature sets, use cases, or intended devices. Certain editions are distributed only on devices directly from an original equipment manufacturer (OEM), while editions such as Enterprise and Education are only available through volume licensing channels. Microsoft also makes editions of Windows 10 available to device manufacturers for use on specific classes of devices, including IoT devices, and previously marketed Windows 10 Mobile for smartphones.

== Base editions ==

Baseline editions are the only editions available as standalone purchases in retail outlets. PCs often come pre-installed with one of these editions.

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