



The Server Labs G-Cloud 15 Service Description

G-Cloud 15 Service Definition - Microsoft Azure

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1 Introduction

This document provides you with a description of each of The Server Labs' Cloud Services on Microsoft Azure

If you wish to receive further information please contact sales@theserverlabs.com

2 Service Definition

<https://azure.microsoft.com/en-gb/services/>

Azure Virtual Machine - Windows

Cloud Compute Services. Azure Windows Virtual Machines / VMs

Azure Virtual Machines - Linux

Cloud Compute Services. Azure Linux Virtual Machines / VMs.

Azure Virtual Machine - Scale Sets

Cloud compute services. Auto scaling virtual machines for high availability.

Azure Cloud Services

Cloud compute services. Deploy highly available, infinitely scalable applications and APIs.

Azure Batch

Cloud-scale batch job scheduling and compute management.

Azure RemoteApp

Windows remote application delivery to Windows, iOS, Mac OS X and Android devices.

Azure Service Fabric

Cloud fabric service. Build and operate always-on, scalable, distributed applications.

Azure Container Service

Cloud container service. Deploy and manage containers using the tools you choose.

Azure Redis Cache

Cloud Redis cache. High-throughput, consistent low-latency data access to power fast, scalable Azure applications.

Azure Storage - Blobs

REST-based blob object storage for unstructured data in the cloud.

Azure Storage - Tables

A NoSQL key-value store for rapid development using massive semi-structured datasets and tables.

Azure Storage - Queues

Reliable messaging for scenarios including workflow processing or communication between application components.

Azure Storage - Files

Fully managed file shares that use the standard SMB 3.0 protocol.

Azure Storage - Disks

Reliable, economical cloud storage for data big and small.

Azure Storage - StorSimple

An enterprise hybrid cloud storage solution that lowers costs.

Azure Virtual Network

Provision private networks, optionally connect to on-premises datacenters.

Azure ExpressRoute

Dedicated private network fiber connections to Azure.

Azure Traffic Manager

Geo-route incoming traffic to your app for better performance and availability.

Azure Load Balancer

Deliver high availability and network load balancing performance to your applications.

Azure DNS

Host your DNS domain in Azure for outstanding performance and availability.

Azure VPN Gateway

Establish secure, cross-premises VPN connectivity.

Azure Application Gateway

Highly scalable websites with HTTP load balancing and delivery control

Azure API Management

Publish, manage, secure and analyse your APIs in minutes.

Azure Automation

Simplify cloud management with process automation.

Azure Backup

Simple and reliable cloud-integrated backup as a service.

Azure BizTalk Services

Get started quickly with Hybrid Connections using Azure Biztalk services.

Azure Cortana Intelligence

A fully managed big data and advanced analytics suite that enables you to transform your data into intelligent action. Cortana Intelligence Suite enables core analytics scenarios such as real-time recommendations, customer churn forecasting, fraud detection, predictive maintenance and many more.

Azure Data Catalog

Stores, describes, indexes, and provides information on how to access any registered data source. In other words, it makes data source discovery trivial. It facilitates collaboration and is designed to help close the gap between those who seek information and those who create it.

Azure Data Factory

A fully managed service for composing data storage, processing, and movement services into streamlined, scalable, and reliable data production pipelines.

Azure Data Lake Analytics

Makes big data analytics easy by letting you focus on writing, running and managing jobs, rather than operating a distributed infrastructure. Queries that transform your data and extract insights handle any scale instantly by simply setting the dial for how much power you need.

Azure Data Lake Store

Stores data of any size, shape and speed in a webhdfs compliant service for batch, streaming and interactive analytics. Works with existing IT investments for identity, management and security and also integrates seamlessly with operational stores and data warehouses so that you can extend current data applications.

Azure Developer Tools

Visual Studio family of tools 2015 is a set of rich development environments for creating stunning applications for Windows, Android, and iOS, as well as modern web applications and cloud services

Azure DevTest Labs

Fast, easy, and lean dev-test environments.

Azure DocumentDB

Blazing fast, planet-scale NoSQL.

Azure Event Hubs

Cloud-scale telemetry ingestion from websites, apps and devices.

Azure Functions

Listen and react to events across your stack.

Azure HDInsights

Microsoft's Hadoop-based managed service that brings an Apache Hadoop-based solution to the cloud. Quickly provision clusters, scale up or down to manage cost and performance or delete clusters whilst persisting the data.

Azure HockeyApp

Develop, distribute and beta-test your mobile apps.

Azure IoT Hub

Connect, monitor, and control millions of Internet of Things IoT assets.

Azure IoT Suite

Capture and analyze untapped Internet of Things (IoT) data to improve business results.

Azure Key Vault

Safeguard and maintain control of keys and other secrets.

Azure Log Analytics

Collect, search and visualize machine data from on-premises and cloud.

Azure Machine Learning

An integrated development environment, using drag-and-drop and simple data flow graphs to set up experiments, for people without deep data science backgrounds. Start mining data for predictions and publish models as web services. ML Studio also features a library of sample experiments and sophisticated algorithms from Microsoft Research.

Azure Mobile Engagement

Increase app usage and user retention.

Azure Notification Hubs

Send push notifications to any platform from any backend.

Azure Power BI Embedded

Embed fully interactive, stunning data visualizations in your applications.

Azure Scheduler

Run your jobs on simple or complex recurring schedules.

Azure Search

Cloud search service for web and mobile app development

Azure Security Center

Prevent, detect and respond to threats with increased visibility into and control over the security of your Azure resources.

Azure Service Bus

Keep apps and devices connected across private and public clouds.

Azure Site Recovery

Orchestrating your disaster recovery plan.

Azure SQL Data Warehouse

An enterprise-class, distributed database capable of processing massive volumes of relational and non-relational data. A cloud data warehouse that combines proven SQL capabilities with the ability to grow, shrink, and pause in seconds. SQL Data Warehouse is also deeply ingrained into Azure, it easily deploys in seconds.

Azure SQL Database

The developer's intelligent cloud database.

Azure SQL Server Stretch Database

Dynamically stretching SQL Server databases to Azure.

Azure Stream Analytics

A fully managed low latency, high throughput stream processing solution that enables you to process millions of events in seconds with temporal queries.

Azure Active Directory - Basic

Cloud Identity. Basic identity and access management for cloud and hybrid applications and users.

Azure Active Directory - Premium

Cloud Identity. Helps IT protect access to applications and resources across the corporate datacenter and into the cloud, enabling additional levels of validation such as multi-factor authentication and conditional access policies. Monitoring suspicious activity through advanced security reporting, auditing and alerting helps mitigate potential security issues.

Azure Active Directory - B2C

Consumer and Citizen identity and access management in the cloud.

Azure Active Directory - Domain Services

Your domain controller as a service

Azure Multi-Factor Authentication

Added multi factor authentication MFA security for your data and applications – without added hassle for users

Azure App Service - Web Apps

Create and deploy mission-critical web apps that scale with your business.

Azure App Service - Mobile Apps

Building engaging iOS, Android and Windows apps

Azure App Service - Logic Apps

Develop and deliver powerful integration solutions with ease

Azure App Service - API Apps

Quickly build and consume APIs in the cloud using the language of your choice

Azure Cognitive Services - Emotion API

The Emotion API takes an facial expression in an image as an input, and returns the confidence across a set of emotions for each face in the image, as well as bounding box for the face, using the Face API.

Azure Cognitive Services - Face API

Detect one or more human faces in an image and get back face rectangles for where in the image the faces are, along with face attributes which contain machine learning-based predictions of facial features.

Azure Cognitive Services - Language Understanding Intelligence Service

Understand language contextually, so your app communicates with people in the way they speak using a powerful dialog engine that enables you to maintain context, author and execute any dialog in few steps.

Azure Cognitive Services - Recommendations API

Provide personalized product recommendations for your users using 'frequently bought together' or 'item to item' recommendations.

Azure Cognitive Services - Speech API

Converts spoken audio to text. The API can be directed to turn on and recognize audio coming from the microphone in real-time, recognize audio coming from a different real-time audio source, or from within a file. Real-time streaming is available providing partial results whilst streaming.

Azure Cognitive Services - Text Analytics

The API returns a sentiment score generated using classification techniques for English, French, Spanish and Portuguese text. The API returns a list of key talking points in the input text, and topics when comparing multiple documents. The API can also detect language of the text for 120 languages.

Azure Cognitive Services - Web Language Model API

Automate a variety of standard natural language processing tasks using state-of-the-art language modeling APIs: insert spaces, calculate how often particular words appear together or the probability that a particular word tends to follow, or return a list of the most likely words to come next.

Azure Media Services

Encode, store, and stream video and audio at scale.

Azure Media Services - Azure Media Player

Your content. Multiple devices. One player.

Azure Media Services - Content Protection

Deliver content securely using AES encryption or multi-DRM common encryption such as PlayReady and Widevine.

Azure Media Services - Encoding

Studio Grade encoding at Cloud Scale.

Azure Media Services - Live and On-demand Streaming

Deliver content to virtually any device at scale.

Azure Media Services - Media Analytics

Speech and vision services at enterprise scale, with security, compliance and reach.

Azure Content Delivery Network (CDN)

A fast and modern global CDN for high-bandwidth content.

Azure Visual Studio - Application Insights

Detect, triage and diagnose issues in your web apps and services.

Azure Visual Studio - Team Services

Services for teams to share code, track work, and ship software – for any language, all in a single package. It's the perfect complement to your IDE.

Azure Operations Management Suite

Manage and protect your resources across on-premises datacenters and Azure.

3 The Server Labs

The Server Labs (TSL) is a 100% privately founded IT Consultancy and Software Development Company with headquarters in the UK and offices in Germany and Spain and now established as a leader in Cloud Computing services. The Server Labs focuses on the design and implementation of IT architectures and advanced software engineering projects working with the most advanced technologies to provide its clients cost-effective, scalable and high performance solutions. The Server Labs has been using the Cloud since 2006 and working with its customers in the cloud since 2008 and was one of the first European partner's of Amazon Web Services.

The Server Labs has clients in many different industry areas such as space, finance and telecoms. We collaborate with our clients to obtain success, committed to innovation, enjoying what we do every day and growing with every challenge.

The Company's mission is:

- To provide **expert services** in the field of IT architectures and advanced software engineering
- To **improve radically the software development process**
- **To help organisations achieve better business results through the correct use of latest technologies**
- To have **100% satisfied clients**
- To create high quality **innovative software solutions**, providing added value to our customers

The specific value, experience and expertise that The Server Labs can provide for e-LfH are:

1. **Technical excellence** and capability to act as lead on architectural decisions and as technology expert in software and system subjects.
2. **Architecture experience at software and system level.**
3. **Proven experience in HPC and Big Data Projects**
4. **Real cloud computing experience, at IaaS, PaaS and SaaS levels, and for both compute power as well as storage solutions in different clouds.**
5. **Secure software development model certified to ISO 27001:2022**
6. **Technological excellence**, especially in the main technologies required for the project, including HPC, web services and security technologies.

All our architects and engineers are experts with an average of 10 years' experience in the planning, design and development of complex software systems. Our multinational team has been a pioneer in Java technologies, Object Oriented Analysis and Design and distributed architectures, and has the required hands-on experience in many state of the art technologies. In the last few years, The Server Labs has positioned itself as a leader in Cloud computing services, helping organisations move to the Cloud at all levels.

Our experience working across several industries has given us a good understanding of the different requirements so we are able to provide the solution that best suits each particular business and reuse the lessons learnt in the other industry sectors when applicable. Our clients span organisations such as Bioinformatics (Genomics England & NIHR Bioresource), Central Government (Home Office, DEFRA, OFCOM, NICE), Banks (BNP Paribas, BBVA, Caja Madrid) , the European Space Agency (ESA), Madrid Underground (Metro de Madrid), ICCAT, Amadeus, TRAGSA, TIBCO (a leader in Messaging and Service Bus architecture systems), O2 and Telefonica, Vodafone, ORACLE, several, Sun Microsystems, TUI and Marsans travel, etc.