

CLOUD COMPARISON

AZURE VS. AWS VS. GOOGLE COMPUTE



Google Cloud

Compute	Shared Web hosting		Azure shared App Services	
Compute	Virtual Server	Amazon EC2	Azure Virtual Machine	Compute Engine
Compute	Bare Metal Server	Amazon EC2 Bare Metal Instance (Preview)	Azure Bare Metal Servers (Large Instance Only for SAP Hana)	
Compute	Virtual Dedicated Host	Amazon EC2 Dedicated Hosts	Azure Dedicated Host	Sole Tenant Node (Beta)
Compute	Container Registration Service	Amazon EC2 Container Registry	Azure Container Registry	Container Registry
Compute	Container Management Service	Amazon EC2 Container Service	Azure Kurnete Service (AKS)	
		Amazon Elastic Container Service for Kubernetes (EKS)	Azure Container Instances	Kubernetes Engine
Compute	Micro Services App Development Platform	AWS Lambda	Azure Service Fabric Azure Functions Event Grid	Google Cloud Functions
Compute	Virtual Private Servers	Amazon Lightsail	Azure App Service Environment	
Compute	Auto Scaling	Auto Scaling	Azure Autoscale Virtual Machine Scale Sets	Auto Scaler
Compute	Batch Jobs	AWS Batch	Azure Batch	Preemptible VMs
Compute	App Development/Deployment (Java / .Net / PHP / Python)	AWS Elastic Beanstalk	Azure Web Apps	
			Azure Cloud Services	Google App engine
Compute	Event Driven Computing	AWS Lambda	Azure Functions Event Grid	Cloud Functions
Storage	Object Storage	Amazon Simple Storage Service (S3)	Azure Blob Storage	Cloud Storage
Storage	Virtual Machine Disk Storage	Amazon Elastic Block Storage (EBS)	Azure Page Blobs/Premium Storage Managed Disks	Persistent Disk
Storage	File Storage (SMB Compatible)	Amazon Elastic File System (EFS)	Azure File Storage	File Store
Storage	Long Term Cold Storage	Amazon Glacier	Azure Archive Storage Azure Cool Storage	Cloud Storage Archival Storage (NEARLINE & COLDLINE)
Storage	Hybrid Storage/Storage Gateway	AWS Storage Gateway	Azure Storsimple	



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		AWS	Azure	Google Cloud
Database	Relational Database Management Service	Amazon Aurora Amazon RDS	Azure SQL Database SQL Server Stretch Database Azure Database for MySQL Azure Database for PostgreSQL Azure SQL Database Edge	Cloud SQL Cloud Spanner
Database	Non Relational Database Management Service	Amazon DynamoDB Amazon DynamoDB Accelerator (DAX) Amazon Neptune	Azure CosmosDB Table Storage Azure Time Series Insights	Cloud Datastore Cloud BigTable
Database	Timeseries Database	Amazon DynamoDB	Azure Time Series Insights	Cloud BigTable
Database	In-Memory Data Store	Amazon ElastiCache	Azure RedisCache	Cloud MemoryStore (Beta)
Database	Data Warehousing	Amazon Redshift	Azure SQL Data Warehouse	BigQuery
Networking & Content Delivery	Virtual Networking	Amazon VPC	Azure VNet	Cloud Virtual Network
Networking & Content Delivery	Network Gateway	Amazon VPN	Azure VPN Gateway	Cloud VPN
Networking & Content Delivery	Content Delivery Network	Amazon CloudFront	Azure CDN	Cloud CDN
Networking	Networking & Content Delivery	Amazon Route 53	Azure DNS	Cloud DNS
Networking	Global Traffic Management	Amazon Route 53 Traffic Flow	Azure Traffic Manager	
Hybrid Cloud	Hybrid Cloud	AWS Outposts	Azure Arc	Anthos
Networking & Content Delivery	Private Connectivity	AWS Direct Connect AWS Private Link	Azure Express Route	Cloud InterConnect
Networking & Content Delivery	Load Balancers	Elastic Load Balancing	Azure Load Balancer	Cloud Load Balancing
Developer Tools	Cloud Software Development Kit	AWS Cloud9 AWS Code Star AWS CodeCommit AWS CodeBuild AWS CodeDeploy AWS CodePipeline AWS X-Ray	Azure Boards Azure Pipelines Azure Repos Azure Test Plans Azure Artifacts	Cloud Source Repositories Cloud Build



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Management Tools	Server Management Services	Amazon EC2 Systems Manager	Azure Operational Insights	
Management Tools	Cloud Deployment Templates/ Infra as Code	AWS CloudFormation	Azure Resource Manager Azure Building Blocks	Cloud Resource Manager Cloud Deployment Manager
Management Tools	Logging & Monitoring	Amazon CloudWatch AWS CloudTrail	Log Analytics Azure portal Application Insights	Google StackDriver Monitoring Logging Error Reporting Trace Debugger
Management Tools	Resource / Configuration Inventory	AWS Config	Azure portal (audit logs)	Cloud Security Scanner Cloud Data Loss Prevention Api Access Transparency (Beta)
Management Tools	Server Automation	AWS OpsWorks	Resource Manager Azure Automation VM Extentions	
Management Tools	Server Automation	AWS Service Catalog		
Management Tools	Cloud Cost / Performance / Security Advisor	AWS Trusted Advisor	Azure Advisor Azure Cost Management	Google Cloud Platform Security
Management Tools	Alerts and Remediation guidance Service	AWS Personal Health Dashboard	Azure Monitor Azure Operations Management Suite (OMS)	
Management Tools	Cloud Management Tools	AWS Command Line Interface AWS Management Console	Azure Command Line Interface Azure Powershell Azure Management Console Azure Cloud Shell	Cloud Shell Cloud Console Billing API Cloud APIs
Management Tools	Automated Infra Management Services	AWS Managed Services		



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Security & Identity, Compliance	Identity & Access Management	AWS Identity and Access Management (IAM)	Azure Active Directory	Cloud IAM Cloud Identity-Aware Proxy
Security & Identity, Compliance	Cloud Security Assessment Service	Amazon Inspector Guard Duty	Azure Security Center	
Security & Identity, Compliance	Secured Socket Layer (SSL) Certificates	AWS Certificate Manager	App Service Certificate	
Security & Identity, Compliance	Hardware Based Security Module	AWS CloudHSM AWS Secrets Manager	Azure Key Vault	Cloud Key Management Service
Security & Identity, Compliance	Directory Services	AWS Directory Service	Azure Active Directory Azure Active Directory B2C Azure Active Directory Domain Services Azure Active Directory Multi Factor Authentication	Cloud IAM Cloud Identity-Aware Proxy Security Key Enforcement
Security & Identity, Compliance	Key Management Services	AWS Key Management Service	Azure Key Vault	Cloud Key Management Service
Security & Identity, Compliance	Consolidated Management of Multiple Cloud Accounts	AWS Organizations	Azure Management Groups	
Security & Identity, Compliance	DDoS Protection Service	AWS Shield	Azure DDoS Protection	Cloud Armor (Beta)
Security & Identity, Compliance	Web Application Firewall	AWS WAF	Azure WAF	
Security & Identity, Compliance	Security & Compliance Service	AWS Artifact	Azure Security & Compliance	Cloud Security Command Center (Alpha) Apigee API Platform API Monitization API Analytics Apigee Sense Cloud Endpoints
Application Services	API Management Service	Amazon API Gateway	Azure API Management	Cloud Pub/Sub
Application Services	Queuing Services	Amazon SQS Amazon MQ	Service Bus queues Queue Storage Service Bus topics Service Bus relay	

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Application Services	Mobile Analytics	Amazon Pinpoint	Mobile Engagement	
Application Services	Email Services	Amazon SES		
Application Services	Notification Services	Amazon SNS	Azure Notification Services	Firebase Cloud Messaging
Application Services	Blockchain Services	Amazon Managed Blockchain Amazon Quantum Ledger Database (QLDB)	Blockchain Blockchain Workbench Azure Blockchain Tokens	
Software MarketPlace	Cloud Marketplace	AWS Marketplace	Azure MarketPlace	Cloud Launcher
Internet of Things	IoT Platform	AWS IoT Platform	Azure IoT Platform Azure IoT Hub	Cloud IoT Core (Beta) Google Cloud IoT
Internet of Things	IoT Development Solutions	AWS Greengrass	Azure IoT SDK Azure IoT Edge	
Development & Testing	Development & Testing	AWS Dev/Test	Azure Dev/Test	



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