

























Public Cloud Services Comparison (March 18th, 2019)

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Category	Service						
Compute	Shared Web hosting		Azure shared App Services		Web hosting services		Web Hosting Simple Application Server
Compute	Virtual Server	Amazon EC2	Azure Virtual Machine	Compute Engine	Classic VirtualServer VirtualServer for VPC PowerLinux for VPC Power Systems Virtual Servers VMware Shared Server Instance VMware Dedicated vCenter Service Hyper Protect VirtualServer	Compute	Alibaba ECS
Compute	Bare Metal Server	Amazon EC2 Bare Metal Instance (Preview)	Azure Bare Metal Servers (Large Instance Only for SAP Hana)		Bare Metal Servers	Bare Metal Servers	ECS Bare Metal Instance
Compute	Virtual Dedicated Host	Amazon EC2 Dedicated Hosts	Azure Dedicated Host	Sole Tenant Node (Beta)	Dedicated Virtual Servers Infrastructure (VSi)	Dedicated Compute Classic	Dedicated Host
Compute	Container Registration Service	Amazon EC2 Container Registry	Azure Container Registry	Container Registry	IBM Cloud Container Registry	Oracle Cloud Infrastructure Registry	Container Registry







Category	Service						
Compute	Container Management Service	Amazon EC2 Container Service Amazon Elastic Container Service for Kubernetes (EKS)	Azure Kubernetes Service (AKS) Azure Container Instances	Kubernetes Engine	IBM Cloud Kubernetes Service Redhat Openshih Kubernetes Service	Container Engine for Kubernetes (OKE)	Container Service Container Service for Kubernetes
Compute	Micro Services App Development Platform	AWS Lambda	Azure Service Fabric Azure Functions Event Grid	Google Cloud Functions	IBM Cloud Functions	Oracle Functions	Function Compute
Compute	Virtual Private Servers	Amazon Lightsail	Azure App Service Environment		Classic Virtual Server Virtual Server for VPC		Simple Application Server
Compute	Auto Scaling	Auto Scaling	Azure Autoscale Virtual Machine Scale Sets	Auto Scaler	Auto Scaling	Auto Scaling	Auto Scaling
Compute	Batch Jobs	AWS Batch	Azure Batch	Preemptible VMs	IBM Cloud Functions		Batch Compute
Compute	App Development/ Deployment (Java /.Net /PHP /Python)	AWS Elastic Beanstalk	Azure Web Apps Azure Cloud Services	Google App engine	Cloud Foundry Apps	Application Container Cloud Java Cloud Service	Enterprise Distributed Application Service
Compute	Event Driven Computing	AWS Lambda	Azure Functions Event Grid	Cloud Functions	IBM Cloud Functions	Oracle Functions	Function Compute
Storage	Object Storage	Amazon Simple Storage Service (S3)	Azure Blob Storage	Cloud Storage	Cloud Object Storage	Object Storage	Object Storage Service
Storage	Virtual Machine Disk Storage	Amazon Elastic Block Storage (EBS)	Azure Page Blobs / Premium Storage Managed Disks	Persistent Disk	Block Storage Block Storage for VPC	Block Storage	Block Storage
Storage	File Storage (SMB Compatible)	Amazon Elastic File System (EFS)	Azure File Storage	File Store	File Storage	Oracle Cloud Infrastructure File Storage	NAS File Storage
Storage	Long Term Cold Storage	Amazon Glacier	Azure Archive Storage Azure Cool Storage	Cloud Storage Archival Storage (NEARLINE & COLDLINE)	Object Storage- ColdVault Archive	Archive Storage	Object Storage Archive







Category	Service						
Storage	Hybrid Storage/Storage Gateway	AWS Storage Gateway	Azure StorSimple			Storage Software Appliance	Hybrid Cloud Storage Array
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	Db2 Db2 Hosted Informix Databases for PostgreSQL Compose for MySQL(Beta)	DBaaS MySQL Service	ApsaraDB for RDS MySQL ApsaraDB for RDS SQL Server ApsaraDB for RDS PostgreSQL Distributed Relational Database Service (DRDS)
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	Cloudant NoSQL DB Compose for JanusGraph Databases for MongoDB	NoSQL Database	ApsaraDB for MongoDB Table Store
Database	Timeseries Database	Amazon DynamoDB	Azure Time Series Insights	Cloud BigTable	Informix		HiTSDB (High-Performance Time Series Database)
Database	In-Memory Data Store	Amazon ElastiCache	Azure RedisCache	Cloud MemoryStore (Beta)	Databases for Redis		ApsaraDB for Redis
Database	Data Warehousing	Amazon Redshift	Azure SQL Data Warehouse	BigQuery	Db2 Warehouse on Cloud	Exadata Autonomous Data Warehouse Cloud	Alibaba MaxCompute ODPS
Migration Services	Database Migration Services	AWS Database Migration Service	Azure Database Migration Service (Preview)		Lih CLI	Migrate to the Cloud	Data Transmission Service
Migration Services	Server Migration Services	AWS Server Migration Service	Site Recovery Azure Websites Migration Assistant				Cloud Migration Tool







Category	Service						
Migration Services	Small Scale Data Transfer Service	AWS Import/Export	Azure Import/Export		Data Transfer Service Aspera High-speed Transfer	Data Transfer Services - Hard Disk Import	
Migration Services	Large Scale Data Transfer Solution (Petabyte Scale)	AWS Snowball			Mass Data Migration Service	Data Transfer Services - Storage appliance import	Data Transport
Migration Services	Large Scale Data Transfer Solution (Terabyte Scale)	AWS Snowball Edge	Azure Data Box (Preview)	Transfer Appliance (Beta)	Mass Data Migration Service	Data Transfer Services - Storage appliance import	Data Transport
Migration Services	Large Scale Data Transfer Solution (Exabyte Scale)	AWS Snowmobile					
Application Discovery Services	Application Discovery Services	Application Discovery Service	Azure Active Directory				
Networking & Content Delivery	Virtual Networking	Amazon VPC	Azure VNet	Cloud Virtual Network	IBM Cloud VPC on Classic IBM Cloud VPC Next Gen (Early Access)	Oracle Virtual Cloud Network	Virtual Private Cloud
Networking & Content Delivery	Network Gateway	Amazon VPN	Azure VPN Gateway	Cloud VPN	Classic IPSEC-VPN VPN gateway for VPC	VPN Connect	VPN Gateway
Networking & Content Delivery	Content Delivery Network	Amazon CloudFront	Azure CDN	Cloud CDN	Content Delivery Network		Alibaba Content Delivery Network
Networking	Networking & Content Delivery	Amazon Route 53	Azure DNS	Cloud DNS	Internet Services	Oracle DNS	Alibaba Cloud DNS
Networking	Global TraGic Management	Amazon Route 53 TraGic Flow	Azure TraGic Manager		Internet Services	OCI TraGic Management	
Hybrid Cloud	Hybrid Cloud	AWS Outposts	Azure Arc	Anthos		Cloud At Customer	







Category	Service						
Networking & Content Delivery	Private Connectivity	AWS Direct Connect AWS Private Link	Azure Express Route	Cloud InterConnect	Direct Link	Fast Connect	Express Connect
Networking & Content Delivery	Load Balancers	Elastic Load Balancing	Azure Load Balancer	Cloud Load Balancing	IBM Cloud Load Balancing Citrix NetScaler VPX	Oracle Load Balancer	Server Load Balancer
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	Continuous Delivery DevOps Insights Globalization Pipeline	Developer Cloud Service	
Developer Tools	Cloud Software Development Kit	AWS SDK	Azure SDK Visual Studio	Cloud SDK Cloud Tools for IntelliJ Cloud Tools for Android Studio Cloud Tools for Powershell Google Plugin for Eclipse	IBM Cloud Developer Tool Continuous Delivery	Visual Builder API Catalog Oracle Enterprise Pack for Eclipse Oracle Enterprise Pack for Netbeans	
Management Tools	Server Management Services	Amazon EC2 Systems Manager	Azure Operational Insights			Oracle Management Cloud	
Management Tools	Cloud Deployment Templates/ Infra as Code	AWS CloudFormation	Azure Resource Manager Azure Building Blocks	Cloud Resource Manager Cloud Deployment Manager	Schematics	Stack Manager	Resource Orchestration Service







Category	Service						
Management Tools	Logging & Monitoring	Amazon CloudWatch AWS CloudTrail	Log Analytics Azure portal Application Insights	Google StackDriver Monitoring Logging Error Reporting Trace Debugger	Monitoring IBM Cloud Log Analysis with LogDNA IBM Cloud Activity Tracker with LogDNA IBM Cloud Monitoring with Sysdig	Application Performance Monitoring Management Cloud	CloudMonitor ActionTrail Application Real-Time Monitoring Service
Management Tools	Resource / Configuration Inventory	AWS Config	Azure portal (audit logs)	Cloud Security Scanner Cloud Data Loss Prevention Api Access Transparency (Beta)		Oracle Cloud Governance Services	Alibaba Log Service
Management Tools	Server Automation	AWS OpsWorks	Resource Manager Azure Automation VM Extentions			Oracle Orchestration Cloud Service	Resource Orchestration Service
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)			Oracle Management Cloud	Cloud monitoring, Notification and Alerts
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		Oracle Public Cloud CLI Oracle Cloud Infrastructure CLI Oracle Management Console API Catalog	Alibaba Cloud CLI







Category	Service						
Management Tools	Automated Infra Management Services	AWS Managed Services				Oracle Managed Cloud Services	
Disaster Recovery Services	Automated Disaster Recovery Services	AWS Disaster Recovery	Azure Site Recovery Azure Backup			Oracle Database Backup	Alibaba Disaster Recovery Hybrid Backup Recovery
Security & Identity, Compliance	Identity & Access Management	AWS Identity and Access Management (IAM)	Azure Active Directory	Cloud IAM Cloud Identity-Aware Proxy	Identity & Access Management	Identity	Resource Access Management
Security & Identity, Compliance	Cloud Security Assessment Service	Amazon Inspector Gaurd Duty	Azure Security Center		Infrastructure Vulnerability Scan	Configuration and Compliance Service	
Security & Identity, Compliance	Secured Socket Layer (SSL) Certificates	AWS Certificate Manager	App Service Certificate		Certificate Manager		SSL Certificates
Security & Identity, Compliance	Hardware Based Security Module	AWS CloudHSM AWS Secrets Manager	Azure Key Vault	Cloud Key Management Service	Key Protect Cloud HSM Hyper Protect Crypto Services		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	App ID		Resource Access Management
Security & Identity, Compliance	Key Management Services	AWS Key Management Service	Azure Key Vault	Cloud Key Management Service	Key Protect Cloud HSM Hyper Protect Crypto Services	Identity Cloud Service	Key Management Service
Security & Identity, Compliance	Consolidated Management of Multiple Cloud Accounts	AWS Organizations	Azure Management Groups		Resource Group	Audit	

Category	Service						
Security & Identity, Compliance	DDoS Protection Service	AWS Shield	Azure DDoS Protection	Cloud Armor (Beta)	Internet Services		DDOS Pro and Basic
Security & Identity, Compliance	Web Application Firewall	AWS WAF	Azure WAF		Internet Services	Web Application Firewall	Web Application Firewall
Security & Identity, Compliance	Security & Compliance Service	AWS Firewall Manager	Azure Firewall Manager				
Security & Identity, Compliance	Security & Compliance Service	AWS Artifact	Azure Security & Compliance	Cloud Security Command Center (Alpha)		Compliance	Alibaba Truster Center
Big Data & Advanced Analytics	Big Data Query as a Service	Amazon Athena	Azure Data Lake Analytics	BigQuery	SQL Query		E-MapReduce Service
Big Data & Advanced Analytics	Big Data Managed Cluster as a Service	Amazon EMR	Azure HDInsight	Cloud DataProc	Analytics Engine	Big Data	E-MapReduce Service
Big Data & Advanced Analytics	Cloud Search	Amazon CloudSearch Amazon Elastic Search Service	Azure Search		Databases for Elasticsearch		
Big Data & Advanced Analytics	Streaming Service	Amazon Kinesis Amazon Kinesis Video Streams	Azure Stream Analytics Azure Event Hub	Cloud Dataflow	Streaming Analytics	Event Hub (Apache Kafka as a Service)	
Big Data & Advanced Analytics	Data Warehouse	Amazon Redshih	Azure SQL Data Warehouse	BigQuery	Db2 Warehouse		Alibaba MaxCompute ODPS
Big Data & Advanced Analytics	Business Intelligence & Data Visualization	Amazon QuickSight	PowerBI	Google Data Studio (Beta)	Watson studio	Data Visualization Business Intelligence	Data IDE
Big Data & Advanced Analytics	Cloud ETL	AWS Data Pipeline AWS Glue Amazon Simple Workflow Service (SWF)	Azure Data Factory Azure Data Catalog Logic Apps	Cloud DataPrep (Private Beta) Cloud Composer (Beta)	DataStage Watson Knowledge Catalog	Data Integrator	DataWorks Data Integration

Category	Service						
Artificial Intelligence	Language Processing AI	Amazon Lex Amazon Comprehend	LUIS (Language Understanding Intelligent Service) Azure Bot Service Azure Speech Recognition API	Natural Language API Cloud Text-to-Speech (Beta) DialogFlow Enterprise Edition (Beta)	Natural Language Classifier Language Translator Watson Assistant Watson Discovery Watson Knowledge Studio Text to Speech Personality Insights		
Artificial Intelligence	Speech Recognition AI	Amazon Polly Amazon Transcribe Amazon Translate	Bing Speech API	Translation API Speech API	Speech to Text		
Artificial Intelligence	Image Recognition AI	Amazon Rekognition	Emotion API Face API Computer Vision API	Vision API Cloud Video Intelligence	Visual Recognition		Image Search
Artificial Intelligence	Machine Learning	Amazon Machine Learning Amazon Sage Maker	Azure Machine Learning Azure Machine Learning Workbench Azure Machine Learning Model Management	Cloud DataLab Cloud AutoML (Alpha) Cloud Machine Learning Services	Machine Learning		Machine Learning Platform For AI
Mobile Services	Mobile App Development Services	AWS Mobile Hub	Azure Mobile Apps	Cloud Mobile App	Mobile Foundation	Mobile & Chatbots	
Mobile Services	Web API Management Service	Amazon API Gateway	Azure API Management	Cloud Endpoints	API Connect	API Platform	API Gateway
Mobile Services	Web/Mobile Authentication Services	Amazon Cognito	Azure Mobile SDK,Online/Sync	Firebase Authentication	App ID	Mobile Cloud Service	
Mobile Services	Consolidated Mgmt of Multiple Cloud Accounts	Amazon Pinpoint	Azure Mobile Engagement		Mobile Foundation		

Category	Service						
Automated Cloud Management Service	Managed Cloud Services	AWS Managed Services					
Mobile Services	Mobile App Testing Service	AWS Device Farm	Xamarin Test Cloud (Front End) Azure DevTest Labs (Back End)	Cloud Test Lab			
Mobile Services	Mobile App Software Development Toolkit	AWS Mobile SDK	Azure Mobile SDK	Cloud Tools for Android Studio			
Mobile Services	Application Services	AWS Step Functions	Microsoft Flow Logic Apps Azure Functions Event Grid Azure App Service WebJobs	App Engine	IBM Cloud Functions	Functions	
Mobile Services	Mobile App Analytics	Amazon Mobile Analytics	Hockey App	Firebase Analytics	Mobile Foundation	Mobile Cloud Service	
Application Services	API Management Service	Amazon API Gateway	Azure API Management	Apigee API Platform API Monetization API Analytics Apigee Sense Cloud Endpoints	API connect		API Gateway
Application Services	Media Transcoders	Amazon Elastic Transcoder AWS Elemental MediaConvert AWS Elemental MediaLive AWS Elemental MediaPackage AWS Elemental MediaStore AWS Elemental MediaTailor Amazon Kinesis Video Streams	Azure Media Services Live OnDemand Streaming Azure Media Player Content Protection Media Analytics		Digital Transcoding		ApsaraVideo Live

Category	Service						
Application Services	Queuing Services	Amazon SQS Amazon MQ	Service Bus queues Queue Storage Service Bus topics Service Bus relay	Cloud Pub/Sub	Event Streams	Integration Messaging	Message Queue
Application Services	Mobile Analytics	Amazon Pinpoint	Mobile Engagement		Mobile Foundation		
Application Services	Email Services	Amazon SES			Sendgrid	Email Delivery	Direct Mail
Application Services	Notification Services	Amazon SNS	Azure Notification Services	Firebase Cloud Messaging	Push Notifications		Short Message Service (SMS)
Application Services	Blockchain Services	Amazon Managed Blockchain Amazon Quantum Ledger Database (QLDB)	Blockchain Blockchain Workbench Azure Blockchain Tokens		Blockchain Platform	Blockchain (Coming Soon)	Blockchain as a Service
Application Services	Chatbot	Lex Chatbots	Azure Bot Service	Dialogflow	Watson Assistant	Oracle Chatbots	Intelligent Service Robot
Business Productivity	Office Document Solutions	Amazon WorkDocs Amazon WorkMail Amazon WorkSpaces	Microsoft Office 365	G Suite			
Business Productivity	Desktop Application Streaming	Amazon AppStream 2.0					
Software MarketPlace	Cloud Marketplace	AWS Marketplace	Azure Marketplace	Cloud Launcher	IBM Marketplace	Oracle Cloud Market Place	Alibaba Cloud Marketplace
Internet of Things	IoT Platform	AWS IoT Platform	Azure IoT Platform Azure IoT Hub	Cloud IoT Core (Beta) Google Cloud IoT	Internet of Things Platform	Internet of Things Cloud Service	IoT Platform
Internet of Things	IoT Development Solutions	AWS Greengrass	Azure IoT SDK Azure IoT Edge		Internet of Things Platform		

Category	Service						
Internet of Things	IoT Hardware	AWS IoT Button	Azure Sphere				
Game Development	Game Development	Amazon Lumberyard	Visual Studio		Watson Unity SDK		
Robotics Development	Robotics Development	AWS RoboMaker					
Development & Testing	Development & Testing	AWS Dev/Test	Azure Dev/Test				