Public Cloud Services Comparison (June 25th,2018)

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Category	Service	amazon web services™	Azure	Google Cloud Platform	IBM Cloud	ORACLE®	Alibaba Cloud
Compute	**Shared Web hosting**		Azure shared App Services				Web Hosting Simple Application Server
Compute	**Virtual Server**	Amazon EC2	Azure Virtual Machine	Compute Engine	Virtual Server	Compute	Alibaba ECS ECS Bare Metal Instance
Compute	**Bare Metal Server**	Amazon EC2 Bare Metal Instance (Preview)	Azure Bare Metal Servers (Large Instance Only for SAP Hana)	None	Bare Metal Servers	Bare Metal Servers	None
Compute	**Virtual Dedicated Host**	Amazon EC2 Dedicated Hosts	None	Sole Tenant Node (Beta)	Dedicated Virtual Servers	Dedicated Compute Classic	Dedicated Host
Compute	**Container Registration Service**	Amazon EC2 Container Registry	Azure Container Registry	Container Registry	IBM Cloud Kubernetes Services	Oracle Container Registry	Container Registry
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 Container Service	Container	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		Virtual servers		Simple Application Server

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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	Workload Scheduler		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	
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	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	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 Storage	Object Storage Archive
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 PostgresSQL	Cloud SQL Cloud Spanner	Db2 Db2 Hosted Informix Compose for PostgreSQL Compose for MySQL	DBaaS MySQL Service	ApsaraDB for RDS MYSQL ApsaraDB for RDS SQL Server ApsaraDB for RDS PostgreSQL Distributed Relational Database Service (DRDS)

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Database	**Non Relational Database Management Service**	Amazon DynamoDB Amazon DynamoDB Accelerator (DAX) Amazon Neptune (Preview)	Azure CosmosDB Table Storage Azure Time Series Insights	Cloud Datastore Cloud BigTable	Cloudant NoSQL DB IBM Graph Compose for MongoDB	NoSQL Database	Apsaradb for Mongodb Table Store
Database	**Timeseries Database**	Amazon DynamoDB	Azure Time Series Insights	Cloud BigTable			HiTSDB (High-Performance Time Series Database)
Database	**In-Memory Data Store**	Amazon ElastiCache	Azure RedisCache	Cloud MemoryStore (Beta)	Compose for Redis		ApsaraDB for Redis
Database	**Data Warehousing**	Amazon Redshift	Azure SQL Data Warehouse	Big Query	Db2 Warehouse	Exadata Autonomous Data Warehouse Cloud	Alibaba MaxCompute ODPS
Migration Services	**Database Migration Services**	AWS Database Migration Service	Azure Database Migration Service (Preview)		Lift		Data Transmission Service
Migration Services	**Server Migration Services**	AWS Server Migration Service	Site Recovery Azure Websites Migration Assistant				
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					

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Application Discovery Services	**Application Discovery Services**	Application Discovery Service	Azure Active Directory				
Networking & Content Delivery	**Virtual Networking**	Amazon VPC	Azure VNet	Cloud Virtual Network		Oracle Virtual Cloud Network	Virtual Private Cloud
Networking & Content Delivery	**Network Gateway**	Amazon VPN	Azure VPN Gateway	Cloud VPN	VPN	Oracle IPSec VPN	VPN Gateway
Networking & Content Delivery	**Content Delivery Network**	Amazon CloudFront	Azure CDN	Cloud CDN	Content Delivery Network	Edge Services	Alibaba Content Delivery Network
Networking	**Networking & Content Delivery**	Amazon Route 53	Azure DNS	Cloud DNS	Internet Services	Oracle DNS	Alibaba Cloud DNS
Networking	**Global Traffic Management**	Amazon Route 53 Traffic Flow	Azure Traffic Manager		Internet Services		
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	Local 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	Visual Studio Team Services	Cloud Source Repositories	Active Deploy Continuous Delivery Delivery Pipeline Globalization Pipeline Track & Plan	Developer Cloud Service	

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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	Terraform	Stack Manager	Resource Orchestration Service
Management Tools	Logging & Monitoring	Amazon CloudWatch AWS CloudTrail	Log Analytics Azure portal Application Insights	Google StackDriver Monitoring Logging Error Reporting Trace Debugger	Log Analysis Monitoring	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			

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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	
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 Assesment Service**	Amazon Inspector Gaurd Duty	Azure Security Center		Infrastructure Vulnerability Scan Application Vulnerability Scan	Configuration and Compliance Service	
Security & Identity, Compliance	**Secured Socket Layer (SSL) Certificates**	AWS Certificate Manager	App Service Certificate		SSL Certificates		SSL Certificates
Security & Identity, Compliance	**Hardware Based Security Module**	AWS CloudHSM AWS Secrets Manager	Azure Key Vault	Cloud Key Management Service	Key Protect		Key Management Service

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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		
Security & Identity, Compliance	Key Management Services	AWS Key Management Service	Azure Key Vault	Cloud Key Management Service			Key Management Service
Security & Identity, Compliance	Consolidated Management of Multiple Cloud Accounts	AWS Organizations	Azure Management Groups		Resource Group		
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
Security & Identity, Compliance	Security & Compliance Service	AWS Artifact	Azure Security & Compliance	Cloud Security Command Center (Alpha)			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	BigInsights for Apache Hadoop	Big Data	E-MapReduce Service
Big Data & Advanced Analytics	Cloud Search	Amazon CloudSearch Amazon Elastic Search Service	Azure Search		Compose for Elasticsearch		

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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 Redshift	Azure SQL Data Warehouse	Big Query	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)		Data Integrator	DataWorks Data Integration
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 Discovery 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 SageMaker	Azure Machine Learning Azure Machine Learning Workbench Azure Machine Learning Model Management	Cloud DataLab Cloud AutoML (Alpha) Cloud Machine Learning Services	Machine Learning		

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Mobile Services	**Mobile App Development Services**	AWS Mobile Hub	Azure Mobile Apps	Cloud Mobile App	Cloud Mobile App	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,Offline/Sync	Firebase Authentication	App ID	Mobile Cloud Service	
Mobile Services	**Consolidated Mgmt of Multiple Cloud Accounts**	Amazon Pinpoint	Azure Mobile Engagement		Mobile Foundation		
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 Analyics	Mobile Cloud Service	

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Application Services	API Management Service	Amazon API Gateway	Azure API Management	Apigee API Platform API Monitization API Analytics Apigee Sense Cloud Endpoints	Api connect		
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 On Demand Streaming Azure Media Player Content Protection Media Analytics		Digital Transcoding		ApsaraVideo Live
Application Services	Queuing Services	Amazon SQS Amazon MQ	Service Bus queues Queue Storage Service Bus topics Service Bus relay	Cloud Pub/Sub	Message Hub	Integration Messaging	Message Queue
Application Services	Mobile Analytics	Amazon Pinpoint	Mobile Engagement		Mobile Analytics		
Application Services	Email Services	Amazon SES			Sendgrid	Edge Services	Direct Mail
Application Services	Notification Services	Amazon SNS	Azure Notification Services	Firebase Cloud Messaging	Push notification		Short Message Service (SMS)
Application Services	Blockchain Services		Blockchain Blockchain Workbench		Blockchain	Blockchain (Coming Soon)	Blockchain
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			

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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		Edge Analytics Watson IoT Platform Edge		
Internet of Things	IoT Hardware	AWS IoT Button	Azure Sphere				
Game Development	Game Development	Amazon Lumberyard	Visual Studio				
Development & Testing	Development & Testing	AWS Dev/Test	Azure Dev/Test				

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The Ultimate Cloud Comparison by Ilyas (https://github.com/ilyas-it83/CloudComparer/)

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