

IaaS Services Catalog

Cloud Services	Service Type	AWS	Azure	GCP
Virtual Server	IaaS	Amazon EC2	Azure Virtual Machine	Compute Engine
Bare Metal Server	IaaS	Amazon EC2 Bare Metal Instance	Azure Bare Metal Servers (Large Instance Only for SAP Hana)	Bare Metal Solution
Vmware	IaaS	VMC on AWS	Azure VMware Solution	Google Cloud VMware Engine
Virtual Dedicated Host	IaaS	Amazon EC2 Dedicated Hosts AWS Nitro Enclaves	Azure Dedicated Host	Sole Tenant Node (Beta)
High Performance Computing	IaaS	High Performance Computing AWS ParallelCluster Elastic Fabric Adapter NICE DCV	Azure High Performance Compute	High performance computing
Virtual Machine Disk Storage	IaaS	Amazon Elastic Block Storage (EBS)	Azure Page Blobs / Premium Storage Managed Disks	Persistent Disk
Virtual Networking	IaaS	Amazon VPC	Azure Vnet	Cloud Virtual Network
Virtual network connectivity	IaaS	AWS Transit Gateway AWS VPC peering	Azure VPN Gateway	Cloud VPN
Content Delivery Network	IaaS	Amazon CloudFront	Azure CDN Azure Front Door	Cloud CDN
DNS	IaaS	Amazon Route 53	Azure DNS	Cloud DNS
Global Traffic Management	IaaS	Amazon Route 53 Traffic Flow AWS Global Accelerator AWS App Mesh	Azure Traffic Manager	
Private Connectivity	IaaS	AWS Direct Connect AWS Private Link	Azure Express Route	Cloud InterConnect
Load Balancers	IaaS	Elastic Load Balancing	Azure Load Balancer	Cloud Load Balancing
Hybrid Cloud	IaaS	AWS Outposts	Azure Arc	Google Anthos
Automated Disaster Recovery Services	IaaS	AWS Disaster Recovery AWS Backup	Azure Site Recovery Azure Backup	

PaaS Services Catalog

Cloud Services	Service Type	AWS	Azure	GCP
Shared Web hosting	PaaS	AWS Amplify	Azure Shared App Services	Firebase
Container Registration Service	PaaS	Amazon Elastic Container Registry (ECR)	Azure Container Registry	Container Registry
Container Management Service	PaaS	Amazon Elastic Container Service (ECS) Amazon Elastic Kubernetes Service (EKS) Red Hat Openshift on AWS Bottlerocket Bottlerocket	Azure Kubernetes Service (AKS) Azure Container Instances Azure Red Hat OpenShift	Kubernetes Engine
Serverless compute for containers	PaaS	AWS Fargate AWS Proton	Azure Container Instances	Google Cloud Run
Serverless container platform	PaaS	AWS App Runner		Google Cloud Run
Micro Services App Development Platform	PaaS	AWS Lambda	Azure Service Fabric Azure Functions Event GridEvent Grid	Google Cloud Functions
Serverless app repository	PaaS	AWS Serverless Application Repository	Azure App Service Environment	
Virtual Private Servers	PaaS	Amazon Lightsail		
Auto Scaling	PaaS	Auto Scaling	Azure Autoscale Virtual Machine Scale Sets	Auto Scaler
Batch Jobs	PaaS	AWS Batch	Azure Batch	Preemptible VMs
App Development/ Deployment (Java /.Net /PHP /Python)	PaaS	AWS Elastic Beanstalk	Azure Web Apps Azure Cloud Services	Google App engine
Event Driven Computing	PaaS	AWS Lambda	Azure Functions Event GridEvent Grid	Cloud Functions
Object Storage	PaaS	Amazon Simple Storage Service (S3)	Azure Blob Storage	Cloud Storage
File Storage (SMB Compatible)	PaaS	Amazon Elastic File System (EFS) Amazon FSx for Windows File Server Amazon FSx for Lustre	Azure File Storage Azure NetApp Files	File Store
Long Term Cold Storage	PaaS	Amazon Glacier	Azure Archive Storage Azure Cool Storage	Cloud Storage Archival Storage (NEARLINE & COLDLINE)
Hybrid Storage/Storage Gateway	PaaS	AWS Storage Gateway	Azure Storsimple	
Relational Database Management Service	PaaS	Amazon Aurora Amazon RDS	Azure SQL Database SQL Server Stretch DatabaseSQL Server Stretch Database Azure Database for MySQL Azure Database for PostgreSQL Azure SQL Database Edge	Cloud SQL Cloud Spanner
Non Relational Database Management Service	PaaS	Amazon DynamoDB Amazon DocumentDB (with MongoDB compatibility) Amazon DynamoDB Accelerator (DAX) Amazon Neptune	Azure CosmosDB Table Storage Azure Time Series Insights	Cloud Datastore Cloud Bigtable
Timeseries Database	PaaS	Amazon DynamoDB Amazon Managed Service for Prometheus (Preview) Amazon Timestream	Azure Time Series Insights	Cloud Bigtable

In-Memory Data Store	PaaS	Amazon ElastiCache Amazon MemoryDB for Redis	Azure RedisCache	Cloud MemoryStore (Beta)
Data Warehousing	PaaS	Amazon Redshift	Azure Synapse Analytics	BigQuery
Database Migration Services	PaaS	AWS Database Migration Service AWS Migration Hub	Azure Database Migration Service	Database Migration Service
Server Migration Services	PaaS	AWS Server Migration Service AWS Application Migration Service AWS Migration Hub	Site Recovery Azure Websites Migration Assistant	Migrate for Compute Engine Migrate for Anthos Application Migration
Small Scale Data Transfer Service	PaaS	AWS Snowball AWS Transfer Family	Azure Import/Export	Storage Transfer Service
Large Scale Data Transfer Solution (Petabyte Scale)	PaaS	AWS Snowball AWS DataSync		Transfer Appliance
Large Scale Data Transfer Solution (Terabyte Scale)	PaaS	AWS Snowcone AWS Snowball Edge Compute Optimized AWS DataSync	Azure Data Box (Preview)	Transfer Appliance
Large Scale Data Transfer Solution (Exabyte Scale)	PaaS	AWS Snowmobile		
Application Discovery Services	PaaS	Application Discovery Service	Azure Active Directory	
Cloud Software Development Kit	PaaS	AWS Cloud9 AWS Code Star AWS CodeCommit AWS CodeBuild AWS CodeDeploy AWS CodePipeline AWS X-Ray Amazon DevOps Guru Amazon CodeGuru AWS Fault Injection Simulator	Azure Boards Azure Pipelines Azure Repos Azure Test Plans Azure Artifacts	Cloud Source Repositories
Cloud Software Development Kit	PaaS	AWS Tools & SDKs AWS Cloud Development Kit	Azure SDK Visual Studio	Cloud SDK Cloud Tools for IntelliJ Cloud Tools for Android Studio Cloud Tools for Powershell Google Plugin for Eclipse
Server Management Services	PaaS	Amazon EC2 Systems Manager	Azure Operational Insights	
Cloud Deployment Templates/ Infra as Code	PaaS	AWS CloudFormation AWS OpsWorks	Azure Resource Manager Azure Building Blocks	Cloud Resource Manager Cloud Deployment Manager
Logging & Monitoring	PaaS	Amazon CloudWatch AWS CloudTrail AWS X-Ray AWS Distro for OpenTelemetry (Preview) Amazon Managed Service for Grafana (Preview) Amazon Managed Service for Prometheus (Preview)	Log Analytics Application Insights	Google StackDriver Monitoring Logging Error Reporting TraceTrace Debugger
Resource / Configuration Inventory	PaaS	AWS Config AWS License Manager	Azure portal (audit logs)	Cloud Security Scanner Cloud Data Loss Prevention Api Access Transparency (Beta)
Server Automation	PaaS	AWS OpsWorks AWS Service Catalog	Resource Manager Azure Automation VM Extentions	

Cloud Cost / Performance / Security Advisor	PaaS	AWS Trusted Advisor AWS Well-Architected Tool AWS Cost Management AWS Cost Explorer AWS Compute Optimizer	Azure Advisor Azure Cost Management	Google Cloud Platform Security
Alerts and Remediation guidance Service	PaaS	AWS Personal Health Dashboard Amazon CloudWatch AWS Security Hub AWS Audit Manager	Azure Monitor Azure Operations Management Suite (OMS)	
Cloud Management Tools	PaaS	AWS Command Line Interface AWS CloudShell AWS Management Console AWS Console Mobile Application AWS Tools & SDKs	Azure Command Line Interface Azure Powershell Azure Management Console Azure Cloud Shell	Cloud Shell Cloud Console Billing API Cloud APIs
Automated Infra Management Services	PaaS	AWS Managed Services AWS Cloud Map		
Identity & Access Management	PaaS	AWS Identity and Access Management (IAM)	Azure Active Directory	Cloud IAM Cloud Identity-Aware Proxy
Cloud Security Assesment Service	PaaS	Amazon Inspector Gaurd Duty	Azure Security Center	
Secured Socket Layer (SSL) Certificates	PaaS	AWS Certificate Manager	App Service Certificate	
Hardware Based Security Module	PaaS	AWS CloudHSM AWS Secrets Manager	Azure Key Vault	Cloud Key Management Service
Directory Services	PaaS	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
Key Management Services	PaaS	AWS Key Management Service	Azure Key Vault	Cloud Key Management Service
Consolidated Management of Multiple Cloud Accounts	PaaS	AWS Organizations AWS Control Tower AWS Resource Access Manager	Azure Management Groups	
DDos Protection Service	PaaS	AWS Shield	Azure DDoS Protection	Cloud Armor (Beta)
Web Application Firewall	PaaS	AWS WAF	Azure WAF	
Firewall	PaaS	AWS Firewall Manager AWS Network Firewall	Azure Firewall Manager	
Compliance	PaaS	AWS Artifact	Azure Security & Compliance	Cloud Security Command Center (Alpha)
Sensitive Data discovery and protection	PaaS	Amazon Macie		
Big Data Query as a Service	PaaS	Amazon Athena AWS Lake Formation Amazon HealthLake (Preview)	Azure Data Lake Analytics	BigQuery
Big Data Managed Cluster as a Service	PaaS	Amazon EMR	Azure HDInsight	Cloud DataProc
Cloud Search	PaaS	Amazon CloudSearch Amazon Elastic Search Service	Azure Search	
Streaming Service	PaaS	Amazon Kinesis Amazon Kinesis Video Streams	Azure Stream Analytics Azure Event Hub	Cloud Dataflow
Data Warehouse	PaaS	Amazon Redshift	Azure SQL Data Warehouse	BigQuery

Business Intelligence & Data Visualization	PaaS	Amazon QuickSight	PowerBI	Google Data Studio Looker
Cloud ETL	PaaS	AWS Data Pipeline AWS Glue Amazon Simple Workflow Service (SWF)	Azure Data Factory Azure Data Catalog Logic Apps	Cloud DataPrep Cloud Data Fusion Cloud Composer
Third party data exchange	PaaS	AWS Data Exchange	Azure Data Share	
Language Processing AI	PaaS	Amazon Lex Amazon Comprehend	LUIS (Language Understanding Intelligent Service) Azure Bot Service Azure Text Analytics	Natural Language API Cloud Text-to-Speech (Beta) DialogFlow Enterprise Edition (Beta)
Speech Recognition AI	PaaS	Amazon Polly Amazon Transcribe Amazon Translate	Speaker Recognition Speech To Text Speech Translation	Translation API Speech API
Image Recognition AI	PaaS	Amazon Rekognition	Emotion API Face API Computer Vision	Vision API Cloud Video Intelligence
Machine Learning	PaaS	Amazon Machine Learning Amazon SageMaker AWS Neuron	Azure Machine Learning Azure Machine Learning Workbench Azure Machine Learning Model Management	Cloud DataLab Cloud AutoML Vertex AI
Machine Learning Frameworks	PaaS	TensorFlow on AWS PyTorch on AWS Apache MXNet on AWS		Vertex AI (TensorFlow, PyTorch, XGBoost, Scikit-Learn)
Business analysis	PaaS	Amazon Forecast Amazon Fraud Detector Amazon Lookout for Metrics Amazon Augmented AI (Amazon A2I) Amazon Personalize	Azure Analysis Service Azure Metrics Advisor Personalize	Vertex AI (TensorFlow, PyTorch, XGBoost, Scikit-Learn)
Machine Learning Inference	PaaS	Amazon Elastic Inference		Vertex AI Predictions
Intelligent Search / Search with ML	PaaS	Amazon Kendra	Azure Cognitive Search	Vertex Matching Engine
API Management Service	PaaS	Amazon API Gateway	Azure API Management	Apigee API Platform API Monetization API Analytics Apigee Sense Cloud Endpoints
Application Services	PaaS	AWS Step Functions Amazon EventBridge Amazon AppFlow Amazon Managed Workflows for Apache Airflow (MWAA)	Microsoft Flow Logic Apps Logic Apps Azure Functions Event Grid Azure App Service WebJobs	App Engine

Media Transcoders	PaaS	AWS Elemental MediaConnect AWS Elemental MediaConvert AWS Elemental MediaLive AWS Elemental MediaPackage AWS Elemental MediaStore AWS Elemental MediaTailor Amazon Kinesis Video Streams AWS Elemental Live AWS Elemental Server AWS Elemental Conductor AWS Elemental Link AWS Elemental Delta	Azure Media Services Live On Demand Streaming Azure Media Player Content Protection Media Analytics	Transcoder API
Queuing Services	PaaS	Amazon Simple Queue Service (SQS) Amazon MQ	Service Bus queues Queue Storage Service Bus topics Service Bus relay	Cloud Pub/Sub
Mobile Analytics	PaaS	Amazon Pinpoint	Mobile Engagement	
Email Services	PaaS	Amazon SES		
Notification Services	PaaS	Amazon SNS	Azure Notification Services	Firebase Cloud Messaging
Chatbot	PaaS	Amazon Lex AWS Chatbot Alexa for Business	Azure Bot Service	Dialogflow
Blockchain Services	PaaS	Amazon Managed Blockchain Amazon Quantum Ledger Database (QLDB)	Blockchain Blockchain Workbench Azure Blockchain Tokens	
Robotics Development	PaaS	AWS RoboMaker		
Development & Testing	PaaS	AWS Dev/Test	Azure Dev/Test	
Web/Mobile Authentication Services	PaaS	Amazon Cognito	Azure Mobile SDK, Offline/Sync	Firebase Authentication

SL No.	MaaS Service Catalogue
1	Cloud Infrastructure
1.1	<i>Cloud Strategy & Advisory</i>
1.2	<i>IaaS, PaaS</i>
1.3	<i>Cloud Security</i>
1.4	<i>Cloud Cost Optimization</i>
1.5	<i>Cloud Monitoring</i>
1.6	<i>Cloud Performance</i>
1.7	<i>Cloud Solution Architecture</i>
1.8	<i>Public, Private and Hybrid Cloud Solutions</i>
1.9	<i>Cloud Infrastructure and Application Deployment Architecture</i>
2	Cloud Application Modernization
2.1	<i>Cloud Application Modernization</i>
2.2	<i>Cloud Solutions Deployment Architecture (IaaS, PaaS, Integration)</i>
2.3	<i>Cloud Native Application Development</i>
3	Cloud Assessment
3.1	<i>Discovery of customer landscape using tools</i>
3.2	<i>Assess customer existing infrastructure and application environment and discovery data</i>
4	Cloud Migration
4.1	<i>Prepare Cloud Migration Strategy</i>
4.2	<i>Migrate customer application to cloud using Cloud Migration tools</i>
4.3	<i>Perform Application / Sanity testing</i>
4.4	<i>Application Reconfiguration & Testing</i>
5	Cloud Implementation
5.1	<i>Provisioning and deprovisioning of cloud resources and services</i>
5.2	<i>Application Setup, Reconfiguration & Testing</i>
6	IaaS
6.1	<i>Infrastructure component deployments, configuration</i>
6.2	<i>Manage day 2 day operations - Cloud NOC</i>
6.3	<i>Installation, Configuration & Management of Operating System (Windows, Linux, SUSE, Ubuntu, RHEL, Fedora, Debian, CoreOS)</i>

6.4	<i>Installation, Configuration & Management of database (SQL, NoSQL)</i>
6.5	<i>Installation, Configuration & Management of middleware (NGINX, Tomcat etc...)</i>
6.6	<i>Installation, Configuration & Management of Storage</i>
6.7	<i>Installation, Configuration & Management of Backup</i>
6.8	<i>Installation, Configuration & Management of Disaster Recovery (DR)</i>
6.9	<i>Installation, Configuration & Management of Network</i>
6.10	<i>Installation, Configuration & Management of firewall</i>
6.11	<i>Installation, Configuration & Management of load balancers</i>
6.12	<i>Installation, Configuration & Management of SSL certificates</i>
6.13	<i>Installation, Configuration & Management of office connectivity with cloud</i>
6.14	<i>Installation, Configuration & Management of Security Components</i>
6.15	<i>Installation, Configuration & Management of Cloud Virtual Desktops</i>
6.16	<i>Patch Mangement - OS, Network Devices, Switches, Routers</i>
7	PaaS
7.1	<i>Platform Provisioning and deprovisioning</i>
7.2	<i>Manage day 2 day operations</i>
7.3	<i>DevOPs - CI/CD for platform deployment</i>
7.4	<i>Application Development using PaaS Services</i>
7.5	<i>Application Integration and Testing</i>
8	Cloud & Infrastructure Service Desk
8.1	<i>Manage customer requests via Phone, Email, or any Tools</i>
8.2	<i>Manage infrastructure or application incidents or problems</i>
8.3	<i>Manage customer Escalations</i>
8.4	<i>Perform L1 / L2 infrastructure and application activities</i>
9	DevOps / DevSecOps
9.1	<i>DevOPs - CI/CD for platform deployment</i>
9.2	<i>DevOPs - CI/CD for application deployment</i>
9.3	<i>DevOPs - CI/CD for IaC</i>
9.4	<i>DevOPs - CI/CD for Data Pipeline</i>
9.5	<i>Vulnerability scanning and assessment for application Code using tools (like SonarQube)</i>
9.6	<i>Manage Respositories - Application Code, Docker Registry, Artifact Manager</i>

9.7	<i>Design and Implement Security and Quality Gates</i>
10	Site Reliability Engineering (SRE)
10.1	<i>System and Application Traceability & Observability using Tools</i>
10.2	<i>Performance Engineering using APM Tools</i>
10.3	<i>Open Source Tools Management</i>
10.4	<i>Implement Chaos Engineering & Testing using CI/CD Tools</i>
11	Configuration Management
11.1	<i>Development of System and Application configuration using Configuration Management tools like Ansible, SaltStack, Chef, Puppet etc...</i>
11.2	<i>Install, configure and manage Configuration Management Tools and Platform</i>
12	Container / Kubernetes Management
12.1	<i>Container Platform / Cluster Provisioning and deprovisioning</i>
12.2	<i>Install, configure and manage Platform / Cluster Configuration</i>
12.3	<i>DevOPs - CI/CD for platform deployment</i>
12.4	<i>DevOPs - CI/CD for application deployment</i>
12.5	<i>Install, configure and manage Security Configuration</i>
12.6	<i>Manage Respositories - Application Code, Docker Registry, Artifact Manager</i>
13	Cloud Security Assessment and remediation
13.1	<i>Vulnerability Assessment and Penetration Testing (VAPT) Scanning, Assessments and Remediation</i>
13.2	<i>Baseline App Vulnerability Assessment (BAVA) Scanning, Assessments and Remediation</i>
13.3	<i>Source Code App Vulnerability Assessment (SCAVA) Scanning, Assessments and Remediation</i>
13.4	<i>Cloud Security Assessment and remediation</i>
14	Infrastructure as Code (IaC)
14.1	<i>Development of Infrastructure as Code (IaC) tools like Terraform, Chef, Puppet, Pulumi etc..</i>
14.2	<i>Install, configure and manage Infrastructure as Code (IaC)</i>
15	Integration Services
15.1	<i>Development of Cloud Integration interfaces or Services and their configuration</i>
15.2	<i>Install, Configure and Manage Integration Services Platforms</i>
16	Orchestration Services
16.1	<i>Development of Cloud Orchestration or Services and their configuration</i>
16.2	<i>Install, Configure and Manage Orchestration Services Platforms</i>

17	Cloud Application Monitoring / APM Tools
17.1	<i>Configure and Manage Cloud Providers Application Monitoring tools</i>
17.2	<i>Install, Configure and Manage Third-Party Application or APM Monitoring tools</i>
17.3	<i>Develop any custom plugins or automation integration with customer external interface</i>
18	Cloud Infrastructure Monitoring Tools
18.1	<i>Configure and Manage Cloud Providers Infrastructure Monitoring tools</i>
18.2	<i>Install, Configure and Manage Third-Party Infrastructure Monitoring tools</i>
18.3	<i>Develop any custom plugins or automation integration with customer external interface</i>
19	Application Logging & Log Analytics Tools
19.1	<i>Configure and Manage Cloud Providers Application Logging and Analytics tools</i>
19.2	<i>Install, Configure and Manage Third-Party Application Logging and Analytics tools</i>
19.3	<i>Develop any custom plugins or automation integration with customer external interface</i>
20	Open Source and License Tools
20.1	<i>Install, Configure and Manage Tooling Infrastructure</i>
20.2	<i>Develop any custom plugins or automation integration with customer external interface</i>
21	ITSM Tools
21.1	<i>Install, Configure and Manage ITSM Tooling Infrastructure or Services</i>
21.2	<i>Develop any custom plugins or automation integration with customer external interface</i>
21.3	<i>Install, Configure and Manage Data Infrastructure on Cloud</i>
21.4	<i>Data Migration from on-prem to Cloud using Tools</i>
21.5	<i>Design & Development of ETL or Spark Jobs</i>
21.6	<i>Design & Development of Dashboards</i>
21.7	<i>Develop any custom plugins or automation integration with customer external interface</i>
21.8	<i>DevOPs - CI/CD for platform deployment</i>
21.9	<i>DevOPs - CI/CD for application deployment</i>
21.10	<i>Install, Configure and Manage AI/ML/NLP Infrastructure on Cloud</i>
21.11	<i>Design & Development of AI/ML/NLP</i>
21.12	<i>Develop any custom plugins or automation integration with customer external interface</i>
21.13	<i>DevOPs - CI/CD for platform deployment</i>
21.14	<i>DevOPs - CI/CD for application deployment</i>
21.15	<i>Install, Configure and Manage BigData & & Advanced Analytics Infrastructure on Cloud</i>
21.16	<i>Design & Development of BigData Query</i>

21.17	<i>Design & Development of Data Visualization</i>
21.18	<i>Develop any custom plugins or automation integration with customer external interface</i>
21.19	<i>DevOPs - CI/CD for platform deployment</i>
21.20	<i>DevOPs - CI/CD for application Code deployment</i>

SL No.	MaaS Service Catalogue
1	Cloud Broker Services
1.1	<i>Procurement of Cloud Provider Accounts or Subscriptions</i>
1.2	<i>Manage Vendor Relationship / Partnership</i>
1.3	<i>Invoice and Billing Management</i>
1.4	<i>Monthly Utilization reports</i>
1.5	<i>Cloud Management Portal Configuration & Management</i>