# ASSIGNMENT-4

| Service Category | Service | Aws | Google cloud |
|---|---|---|---|
| Compute | Iaas | Amazon Elastic Compute cloud | Compute Engine |
| | Paas | Aws Elastic Beanstalk | App engine |
| | Faas | Aws lambda | cloud Functions |
| Containers | Caas | Amazon Elastic Kubernetes service, Amazon elastic Container Service. | Google Kubernetes Engine |
| | Containers without Infrastructure | Aws Fargate | cloud Run. |
| | Container Registry | Amazon Elastic Container Registry | Container Registry |
| Networking | Virtual networks | Amazon virtual Private cloud. | Virtual private Cloud. |
| | load Balancer | Elastic load Balancer. | Cloud load Balancing. |
| | Dedicated Interconnect | Aws Direct Connect. | Cloud Interconnect |
| | Domains & DNS. | Amazon Route 53 | Google Domain, Cloud DNS. |

| CDN Service Category | Amazon cloudfront Service | AWS | Google cloud |
|---|---|---|---|
| | CDN | Amazon cloudfront | Cloud CDN |
| | DDOS Firewall | Aws shield, Aws WAF | Google cloud Armor |
| Storage | object storage | Amazon simple storage service | cloud storage |
| | Block Storage | Amazon Elastic Block Store | persistent Disk |
| | Reduced-availability storage | Amazon S3 Standard - Infrequent Access, Amazon S3 one zone - Infrequent Access. | cloud storage Nearline & cloud storage Coldline. |
| | Archival storage | Amazon Glacier | cloud storage Archive |
| | File storage | Amazon Elastic file system | Filestore. |
| Database | RDBMS | Amazon Relational database service, Amazon Aurora. | Cloud sql Cloud spanner |
| | NoSQL: key value | Amazon DynamoDB | Filestore, cloud |
| | NoSQL: indexed | Amazon SimpleDB | Bigtable Filestore |
| | In-memory data store | Amazon Elastic cache for Redis | Memory store |

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|---|---|---|---|
| Data analytics | Data warehouse | Amazon Redshift | Big Query |
| | Query service | Amazon Athena | Big Query |
| | Messaging | Amazon Simple Notification Service | Pub/sub |
| | Batch data Processing | Amazon Elastic Map Reduce, AWS Batch | Dataproc, Dataflow |
| Management tools | Deployment | Aws Cloud-Formation | Cloud Deployment manager |
| Operations | Monitoring | Amazon cloud-watch | Cloud-Monitoring |
| | logging | Amazon cloud-watch logs | cloud-logging |
| | Audit-logging | Aws cloud-Trail | cloud Audit logs |
| | Debugging | Aws X-Ray | cloud Debugger |
| | performance tracing | Aws X-Ray | Cloud Trace |

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|---|---|---|---|
| Security & identity | IAM | Amazon Identity and access Management | cloud Identity & Access management |
| | Secret Management | Aws secret Manager | Secret manager cloud key |
| | Encrypted Keys | Aws key management Service | Cloud key Management service |
| | Resource monitoring | Aws Config | Cloud Asset Inventory |
| | Thread detection | Amazon Guard-Duty | Event Threat Detection (beta) |
| Machine learning | Speech | Amazon Transcribe | Speech-to-Text |
| | Vision | Amazon Rekognition | Cloud Vision |
| | NLP | Amazon Comprehend | cloud NL API |
| | Translation | Amazon Translate | cloud Translation |
| | Conversational interface | Amazon Lex | Dialog flow Enterprise Edition |

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|---|---|---|---|
| | Video intelli-gence | Amazon Rekog-nition video | Video Intelligence API |
| | Auto-generated models | Amazon Sagemaker Autopilot | AutoML |
| | Fully managed ML | Amazon Sagemaker | AI platform |
| Internet of Things | IoT service | Amazon IoT | Cloud IoT |