Architecture Characteristics

* Performant
* Scalable & Highly Available
* Cost Effective
* Secure
* Operationally Efficient

1. Compute
   1. EC2
   2. ECS
   3. ECR
   4. Lambda
   5. Beanstalk
   6. Lightsail
   7. Elastic Load Balancer
   8. AutoScaling
   9. Elastic IP Address
   10. VM Import/Export
2. Storage & Databases
   1. EBS – Elastic Block Storage (Block)
   2. S3 (Object)
   3. Glacier (Archive)
   4. RDS (SQL DB) – MySQL, MSSQL, Aurora, PostgreSQL, MariaDB
   5. DocumentDB (Document)
   6. DynamoDB (Key-Value store)
   7. Neptune (Graph)
   8. RedShift (Data Warehouse)
   9. Elasticache (Cache)
   10. EMR (BigData)
   11. StorageGateway
   12. Storage Import/Export
3. Networking
   1. VPC
   2. Cloudfront (CDN)
   3. Route53 - DNS
4. Security & Identity Mgmt
   1. IAM
   2. KMS
   3. WAF (Web Application Firewall)
   4. CloudHSM
   5. GuardDuty
   6. Shield
5. Decoupling Infra/Application Integration
   1. SQS – Simple Queue Service
   2. SNS – Simple Notification Service
   3. SES – Simple Email Service
   4. SWF – Simple Workflow Service
   5. Step Functions
6. Management
   1. Console, API
   2. Metrics & Triggers – CloudWatch
   3. CloudTrail
   4. OpsWorks
   5. TrustedAdvisor
   6. Systems Manager
   7. Inspector
   8. Config
   9. Personal Health Dashboard
   10. Service Health Dashboard
7. Developer Infra & DevOps
   1. Editor – Cloud9
   2. Build – CodeBuild
   3. Deploy – CodeDeploy
   4. Pipeline – CodePipeline
   5. Integrated Development – CodeStar
   6. X-Ray
8. Cost Management
   1. Organizations
   2. TCO Calculator
   3. Consolidated Billing
   4. Cost Explorer
   5. Billing Calculator
9. Operational Efficient
   1. CloudFormation
   2. OpsWorks
10. Analytics
    1. Kinesis Streams
    2. Elasticsearch
    3. CloudSearch
    4. Glue – ETL
    5. Kafka