AWS Architecture and Resource Icons for LETEX

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1 What is this?

LATEX style which allows you to use the AWS architectural icons in your LATEX documents.

The SVG versions of the icons are converted to LaTeX-compatible PDF form using lnkscape (Inkscape 0.92.4 (5da689c313, 2019-01-14)) using the purpose written Go program aws2tex.

This Go program, aws2tex creates:

- The icons portion of this document (inputicons)
- Using Inkscape, all of the icons are converted and are written to the icons_tex directory.
- This document, which is to illustrate as well as index these icons and their corresponding LaTeX maceos. Not all icons are converted:
 - For *Resources*, only the Light versions. The Dark are omitted.
 - For Architecture, only the _64 versions. The lower resolution _16,_32,_48 are omitted.

While the above icons are omitted in the document, they are all included and available for use, in the <code>icons_tex</code> directory.

For instructions on how to generate this document with *all* icons, please see the instructions in the README.md at the github repo.

• This document is found in: https://github.com/gnewton/awsArchIcons2LaTeX

2 How to use it?

Icons can be added to LATEX documents using the \includegraphics command:

```
\graphicspath{{../icons_tex/}}
Here is an API Gateway:
\includegraphics[width=1cm]{../icons_tex/Arch_Amazon-API-Gateway_64.pdf}
```

Resulting in:



[Without the gray background]

2.1 Examples

See the examples directory at the github repo.

3 Source

AWS Architecture Icons from https://aws.amazon.com/architecture/icons/.
Assets package used: AWS-Architecture-Assets-For-Light-and-Dark-BG_20200911.478ff05b80f909792f7853b1a28de8e28eac67f4.zip

© Glen Newton 2020 Icons in this document (I believe) are © Amazon Web Services (AWS)

4 Resources



API Gateway: Endpoint

Res_Amazon-API-Gateway_Endpoint_48_Light.pdf

Macro:\RAPIGatewayEndpoint



App Mesh Mesh

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App Mesh Virtual Node

Res_AWS-App-Mesh-Virtual-Node_48_Light.p

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App Mesh Virtual Router

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App Mesh Virtual Service

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App Mesh: Virtual Gateway

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Aurora: Amazon Aurora Instance alternate

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Aurora: Amazon RDS Instance

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Aurora: Amazon RDS Instance Alternate

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Aurora: Instance

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Aurora: MariaDB Instance

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Aurora: MySQL Instance

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Aurora: MySQL Instance Alternate

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Aurora: Oracle Instance

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Aurora: Oracle Instance Alternate

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Aurora: PIOPS

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Aurora: PostgreSQL Instance

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Aurora: PostgreSQL Instance Alternate

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Aurora: SQL Server Instance

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Aurora: SQL Server Instance Alternate

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Certificate Manager: Certificate Authority

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Macro:\RCertManCertAuth



Cloud Map Namespace



Cloud Map Resource



Cloud Map: Service

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Cloud9: Cloud9

Res_AWS-Cloud9_Cloud9_48_Light.pdf Macro:\RCloudNineCloudNine



CloudFormation: Change Set

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Macro:\RCloudFormChangeSet



CloudFormation: Stack

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Macro:\RCloudFormStack



CloudFormation: Template

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CloudFront: Download Distribution

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 ${\tt Macro:} \\ {\tt RCloudFrontDownloadDistr}$



CloudFront: Edge Location

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CloudFront: Streaming Distribution

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CloudSearch: Search Documents

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Cloudwatch: Alarm

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Cloudwatch: Event Based

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Cloudwatch: Event Time Based

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Macro:\RCloudwatchEventTimeBased



Cloudwatch: Logs

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Macro:\RCloudwatchLogs



Cloudwatch: Rule

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Database Migration Service: Database migration workflow job

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Datasync: Agent

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Direct Connect Gateway

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Directory Service: AD Connector

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8_Light.pdf

 ${\tt Macro: \ \ \ } {\tt RDirSvcADConnector}$



Directory Service: AWS Managed Microsoft AD

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Directory Service: Simple AD

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DynamoDB: Amazon DynamoDB Accel-

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DynamoDB: Attribute

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DynamoDB: Attributes

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DynamoDB: Global secondary index

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DynamoDB: Item

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DynamoDB: Items

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DynamoDB: Table

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EC2: A1 Instance

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EC2: AMI: Resource

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EC2: AWS Inferentia

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EC2: Auto Scaling

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EC2: C4 Instance

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EC2: C5 Instance

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EC2: C5n Instance

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EC2: C6g Instance

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EC2: D2 Instance

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EC2: DB Instance

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EC2: Elastic IP Address

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EC2: F1 Instance

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EC2: G3 Instance

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EC2: H1 Instance

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EC2: HMI Instance

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EC2: 13 Instance

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EC2: R5 Instance

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EC2: Instance

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EC2: R5a Instance

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EC2: Instance with CloudWatch

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EC2: R5n Instance

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EC2: Instances

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EC2: R6g Instance



EC2: M4 Instance

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EC2: Rescue

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EC2: M5 Instance

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EC2: Spot Instance

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EC2: M5a Instance



EC2: T2 Instance



EC2: M5n Instance

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EC2: T3 Instance

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EC2: M6g Instance



EC2: X1 Instance

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EC2: P2 Instance



EC2: X1e Instance



EC2: P3 Instance



EC2: z1d Instance

Index



EC2: R4 Instance

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EMR: Cluster

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EMR: EMR Engine

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EMR: EMR Engine MapR M3

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EMR: EMR Engine MapR M5

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EMR: EMR Engine MapR M7

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EMR: HDFS Cluster

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ElastiCache: Cache Node

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ElastiCache: ElastiCache for Memcached



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ElastiCache: ElastiCache for Redis

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Elastic Beanstalk: Application

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Elastic Beanstalk: Deployment

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Elastic Block Store: Multiple Volumes

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Elastic Block Store: Snapshot

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48_Light.pdf

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Elastic Block Store: Volume

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Elastic Container Registry: Image

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Elastic Container Registry: Registry

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Macro:\RECRReg



Elastic Container Service: Container 1

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Elastic Container Service: Container 2

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Macro:\RECSContainerTwo



Elastic Container Service: Container 3

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Macro:\RECSContainerThree



Elastic Container Service: Service

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rvice_48_Light.pdf

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Elastic Container Service: Task

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Elastic File System: File System

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TOC Page 7 Index



Elastic Load Balancing: Application Load Balancer

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Elastic Load Balancing: Classic Load Balancer

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Elastic Load Balancing: Network Load Balancer

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Email

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EventBridge Event

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EventBridge Rule



EventBridge Saas Partner Event

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EventBridge: Custom Event Bus

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EventBridge: Default Event Bus

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Firewall

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Glue: Crawler

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Glue: Data Catalog

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Identity Access Management: AWS IAM Access Analyzer

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Identity Access Management: AWS STS



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Identity Access Management: AWS STS Alternate

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Identity Access Management: Add on

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Identity Access Management: Data Encryption Key

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Identity Access Management: Encrypted

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Macro:\RIAMEncrdData



Identity Access Management: Long Term Security Credential

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Identity Access Management: MFA To-

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Identity Access Management: Permissions

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Macro:\RIAMPermissions



Identity Access Management: Role

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Identity Access Management: Temporary Security Credential

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Inspector: Agent

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IoT Analytics: Channel

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IoT Analytics: Data Set

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IoT Analytics: Data Store

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IoT Analytics: Notebook

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IoT Analytics: Pipeline

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IoT Device Defender: IoT Device Jobs

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IoT Greengrass: Connector

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IoT HTTP: Protocol

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IoT Hardware Board

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IoT MQTT: Protocol

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IoT Rule

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IoT Thing: Bank

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IoT Thing: Bicycle

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IoT Thing: Camera

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IoT Thing: Car

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IoT Thing: Cart

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IoT Thing: Coffee Pot

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IoT Thing: Door Lock

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IoT Thing: Factory

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IoT Thing: Generic

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IoT Thing: House

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IoT Thing: Lightbulb

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IoT Thing: Medical Emergency

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IoT Thing: Police Emergency

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IoT Thing: Thermostat

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IoT Thing: Travel

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IoT Thing: Utility

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IoT Thing: Windfarm

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IoT: Action

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IoT: Actuator

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IoT: Alexa: Enabled Device

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IoT: Alexa: Skill

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IoT: Alexa: Voice Service

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IoT: Certificate

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IoT: Desired State

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IoT: Device Gateway

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IoT: Echo

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IoT: Fire TV: Stick

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Macro:\RIoTFireTVStick



IoT: Fire: TV

Res_IoT_Fire_TV_48_Light.pdf
Macro:\RIoTFireTV



IoT: HTTP2 Protocol

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IoT: Lambda: Function

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IoT: Over Air Update

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IoT: Policy

Res_IoT_Policy_48_Light.pdf
Macro:\RIoTPolicy



IoT: Reported State

Page 10



IoT: Sensor

Res_IoT_Sensor_48_Light.pdf
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IoT: Servo

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Macro:\RIoTServo



IoT: Shadow

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IoT: Simulator

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Macro:\RIoTSimulator



IoT: Topic

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Lake Formation: Data Lake

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Lambda: Lambda Function

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Managed Blockchain: Blockchain

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OpsWorks: Apps

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OpsWorks: Deployments

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OpsWorks: Instances

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OpsWorks: Layers

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OpsWorks: Monitoring

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OpsWorks: Permissions

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OpsWorks: Resources

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OpsWorks: Stack2

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Organizations: Account

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Organizations: Organizational Unit

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Macro:\ROrganizationsOrgUnit



RDS Proxy

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RDS Proxy Alternate

Res_Amazon-RDS-Proxy-Alternate_48_Light.
pdf

Macro: \RRDSProxyAlternate



Redshift: Dense Compute Node

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Redshift: Dense Storage Node

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Macro:\RRedshiftDenseStorageNode



Rekognition: Image

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Macro:\RRekognitionImg



Rekognition: Video

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Macro:\RRekognitionVideo



RoboMaker: Cloud Extensions ROS

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8_Light.pdf

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RoboMaker: Development Environment

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Macro:\RRoboMakerDevEnvironment



RoboMaker: Fleet Management

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ght.pdf

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RoboMaker: Simulation

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Macro:\RRoboMakerSimul



Route 53 Hosted Zone

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Route 53: Route Table

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S3 Glacier: Archive

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S3 Glacier: Vault



S3: Bucket

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S3: Bucket With Objects

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S3: General Access Points

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S3: Object

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S3: S3 Replication

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S3: S3 Replication Time Control

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S3: Service Glacier

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S3: Service Glacier Deep Archive

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S3: Service Intelligent Tiering

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S3: Service One Zone IA

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S3: Service Standard

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S3: Service Standard IA

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S3: VPC Access Points

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Simple Queue Service: Queue

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Sagemaker: Model

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Snowball: Snowball Import Export

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Sagemaker: Notebook

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Storage Gateway: Cached Volume

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Sagemaker: Train

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Storage Gateway: File Gateway

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Security Hub: Finding

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Storage Gateway: Non Cached Volume

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Shield: AWS Shield Advanced

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Storage Gateway: Tape Gateway

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Simple Email Service: Email

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Storage Gateway: Virtual Tape Library

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Simple Notification Service: Email Notification

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Storage Gateway: Volume Gateway

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Simple Notification Service: HTTP Notification

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System Manager: Automation

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Simple Notification Service: Topic

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System Manager: Documents

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Simple Queue Service: Message

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System Manager: Inventory

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Page 13



System Manager: Maintenance Windows

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Trusted Advisor: Checklist Fault Tolerant

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System Manager: OpsCenter

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Trusted Advisor: Checklist Performance

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System Manager: Parameter Store

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Trusted Advisor: Checklist Security

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System Manager: Patch Manager

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VPC: Customer Gateway

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System Manager: Run Command

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VPC: Elastic Network Adapter

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System Manager: State Manager

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VPC: Elastic Network Interface

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Transfer Family: AWS FTP

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VPC: Endpoints

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Transfer Family: AWS FTPS

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VPC: Flow Logs

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Transfer Family: AWS SFTP

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VPC: Internet Gateway

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Trusted Advisor: Checklist

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VPC: NAT Gateway

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Trusted Advisor: Checklist Cost

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VPC: Network Access Control List

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VPC: Peering Connection

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 ${\tt Macro:} \backslash {\tt RVPCPeeringConnection}$



VPC: Router

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VPC: Traffic Mirroring

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 ${\tt Macro:} \backslash {\tt RVPCTrafficMirroring}$



VPC: VPN Connection

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df

 ${\tt Macro:} \backslash {\tt RVPCVPNConnection}$



VPC: VPN Gateway



WAF: Filtering Rule

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5 Services



API Gateway

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Alexa For Business

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Amplify Console

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Apache MXNet

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App Config

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App Mesh

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App Stream

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App Wizard

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AppSync

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Application Auto Scaling

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Application Discovery Service

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Artifact

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Athena

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Augmented AI A2I

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Aurora

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Auto Scaling

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Backint Agent

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Backup

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Batch

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Bottlerocket

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Braket

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Budgets

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Certificate Manager

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Chatbot

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Chime

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Cloud Development Kit



Cloud Directory

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Cloud Trail

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Cloud9

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CloudEndure Disaster Recovery

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CloudEndure Migration

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CloudFormation

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CloudFront

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CloudHSM

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CloudMap

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CloudSearch

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CloudWatch

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CodeArtifact

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CodeBuild

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CodeCommit

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CodeDeploy

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CodeGuru

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CodePipeline

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Codestar

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Cognito

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Command Line Interface

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Comprehend

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Compute Optimizer

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Config

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Connect

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Console Mobile Application

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Control Tower

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Cost Explorer

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Cost and Usage Report

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Data Exchange

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Data Pipeline

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Data Sync

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Database Migration

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Deep Composer

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Deep Learning AMIs

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Deep Learning Containers

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Deep Lense

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Deepracer

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Detective

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Device Farm

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Direct Connect

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Directory Service

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DocumentDB

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DynamoDB

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EC2

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EC2 Auto Scaling

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EC2 Image Builder

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EC2 M5n

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EC2 R5n

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EMR

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ElastiCache

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Elastic Beanstalk

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Elastic Block Store

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Elastic Container Kubernetes

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Elastic Container Registry

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Elastic Container Service

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Elastic File System

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Elastic Inference

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Elastic Load Balancing

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Elastic Transcoder

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Elasticsearch Service

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Elemental Appliances And Software

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Elemental Link

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Elemental MediaConnect

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Elemental MediaConvert

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Elemental MediaLive

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Elemental MediaPackage

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Elemental MediaStore

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Elemental MediaTailor

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EventBridge

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Express Workflow

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FSx

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FSx For WFS

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Fargate

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Firewall Manager

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Forecast

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Fraud Detector

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FreeRTOS

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GameLift

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Glacier

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Global Accelerator

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Glue

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Ground Station

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GuardDuty

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IQ

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Identity and Access Management

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Infrequent Access Storage Class

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Inspector

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Interactive Video

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IoT 1 Click

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IoT Button

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IoT Core

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IoT Device Defender

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IoT Events

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IoT Greengrass Core

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IoT SiteWise

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IoT Things Graph

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Kendra

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Key Management Services

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Keyspaces

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Kinesis Data Analytics

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Kinesis Data Streams

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Kinesis Firehose

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Kinesis Video Streams

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Lake Formation

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Lambda

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Lex

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License Manager

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Lightsail

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Local Zones

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Lumberyard

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MQ

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Macie

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Managed Blockchain

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Managed Services

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Managed Streaming for Kafka

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Management Console

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Migration Hub

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Neptune

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Neuron ML SDK

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Nitro Enclaves

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OpsWorks

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Organizations

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Outposts

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Parallel Cluster

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Personal Health Dashboard

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Personalize

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Pinpoint

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Pinpoint Journey

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Polly

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PrivateLink

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Professional Services



Quantum Ledger Database

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QuickSight

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RDS

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RDS for VMware

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Redshift

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Redshiftct

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Rekognition

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Reserved Instance Reporting

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Resources Access Manager

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RoboMaker

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Route 53

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S3 Standard

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SageMaker

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SageMaker Ground Truth

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Savings Plans

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Secrets Manager

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Security Hub

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Server Migration Service

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Serverless Application Repository

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Service Catalog

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Shield

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Simple Email Service

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Simple Notification Service

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Simple Queue Service

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Single Sign On

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Site to Site VPN

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Snowball

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Snowball Edge

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Snowcone

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Snowmobile

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Standard Storage Class

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Step Functions

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Macro:\AStepFuncs



Storage Gateway

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Sumerian

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Support

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Systems Manager

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WAF

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Well Architect Tool

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