# LATEX Style for AMS Service and Resource Icons

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# 1 What is this?

LATEX style (awsicons.sty) which allows you to use the AWS architectural icons in your LATEX documents.

The AWS SVG icons are converted to LATEX—compatible PDF form using Inkscape 1.92.4 (5da689c313, 2019-01-14) using the purpose—written Go program aws2tex.

This Go program, aws2tex, creates:

- awsicons.sty file
- LATEX-compatible PDF versions of icons (and written to the icons\_tex directory, using Inkscape).
- This document, which is to illustrate as well as index these icons and their corresponding LaTeX macros. **NB:** Not all icons are converted:
  - For *Resources*, only the Light versions. The Dark are omitted.
  - For Services, only the \_64 versions. The lower resolution \_16,\_32,\_48 are omitted.

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: https://github.com/gnewton/awsArchIcons2LaTeX/awsAllIcons.pdf

This document also includes hyperlinks to Google searches of the titles of each icon.

### 2 How to use it?

There are two parts:

- 1. awsicons.sty file
- 2. directory with all of the icons rendered into LATEX compatible form (in the repo, this is: icons\_tex).

All you need to do is use the package to your LATEX document using \usepackage (after having added the awsicons.sty file to where LATEX can see it, or put it in the same directory as your document) AND add the directory containing all the generated icons to the \graphicspath{...}.

For example:

```
% preamble
\usepackage{awsicons}
\graphicspath{../icons_tex/}
% after \begin{document}
Here is a 1cm API Gateway:
\RAPIGatewayEndpoint{1cm}
Here is a 3cm Lambda function:
\RLambdaLambdaFunc{3cm}
```

Resulting in:

Here is a 1cm API Gateway:



Here is a 3cm Lambda function:



[Without the gray background]

## 2.1 Examples

There are more complex examples in the examples directory, including one which recreates an AWS Architecture blog diagram.

- Simple example
- Building a Controlled Environment Agriculture Platform<sup>1</sup>, by Ashu Joshi, 2020.12.22.

### 3 Sources

The AWS Architecture icons used here are from https://aws.amazon.com/architecture/icons/. The specific assets package used: AWS-Architecture-Assets-For-Light-and-Dark-BG\_20200911.478ff05b80f90 9792f7853b1a28de8e28eac67f4.zip

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Icons in this document (I believe) are: © Amazon Web Services (AWS)

<sup>&</sup>lt;sup>1</sup>https://aws.amazon.com/blogs/architecture/building-a-controlled-environment-agriculture-platform/

### 4 Resources



API Gateway: Endpoint

 $Res\_Amazon-API-Gateway\_Endpoint\_48\_Light.pdf$ 

Macro: \RAPIGatewayEndpoint



App Mesh Mesh

 $Res\_AWS-App-Mesh\_Mesh\_48\_Light.pdf$ 

Macro: \RAppMeshMesh



App Mesh Virtual Node

 $Res\_AWS-App-Mesh-Virtual-Node\_48\_Light.pdf$ 

Macro: \RAppMeshVirtNode



App Mesh Virtual Router

 $Res\_AWS-App-Mesh-Virtual-Router\_48\_Light.pdf$ 

Macro: \RAppMeshVirtRouter



App Mesh Virtual Service

 $Res\_AWS-App-Mesh-Virtual-Service\_48\_Light.pdf$ 

Macro: \RAppMeshVirtSvc



App Mesh: Virtual Gateway

Res\_App-Mesh\_Virtual-Gateway\_48\_Light.pdf

Macro: \RAppMeshVirtGateway



Aurora: Amazon Aurora Instance alternate

Res\_Amazon-Aurora\_Amazon-Aurora-Instance-

alternate\_48\_Light.pdf

 $Macro: \ \backslash RAurAurInstalternate$ 



Aurora: Amazon RDS Instance

Res\_Amazon-Aurora\_Amazon-RDS-

Instance\_48\_Light.pdf

Macro: \RAurRDSInst



Aurora: Amazon RDS Instance Alternate

 $Res\_Amazon-Aurora\_Amazon-RDS-Instance-$ 

Aternate\_48\_Light.pdf

Macro: \RAurRDSInstAltern



Aurora: Instance

Res\_Amazon-Aurora-Instance\_48\_Light.pdf

Macro: \RAurInst



Aurora: MariaDB Instance

Res\_Amazon-Aurora-MariaDB-

Instance\_48\_Light.pdf

Macro: \RAurMariaDBInst



Aurora: MariaDB Instance Alternate

Res\_Amazon-Aurora-MariaDB-Instance-

Alternate\_48\_Light.pdf

Macro: \RAurMariaDBInstAltern



Aurora: MySQL Instance

Res\_Amazon-Aurora-MySQL-Instance\_48\_Light.pdf

Macro: \RAurMySQLInst



Aurora: MySQL Instance Alternate

Res\_Amazon-Aurora-MySQL-Instance-

Alternate\_48\_Light.pdf



Aurora: Oracle Instance

 $Res\_Amazon-Aurora-Oracle-Instance\_48\_Light.pdf$ 

Macro: \RAurOracleInst



Aurora: Oracle Instance Alternate

Res\_Amazon-Aurora-Oracle-Instance-

Alternate\_48\_Light.pdf

 $Macro: \ \backslash RAurOracleInstAltern$ 



Aurora: PIOPS

Res\_Amazon-Aurora-PIOPS\_48\_Light.pdf

Macro: \RAurPIOPS



#### Aurora: PostgreSQL Instance

Res\_Amazon-Aurora-PostgreSQL-

Instance\_48\_Light.pdf

Macro: \RAurPostgreSQLInst



### Aurora: PostgreSQL Instance Alternate

 $Res\_Amazon-Aurora-Postgre SQL-Instance-\\$ 

Alternate\_48\_Light.pdf

Macro: \RAurPostgreSQLInstAltern



#### Aurora: SQL Server Instance

Res\_Amazon-Aurora-SQL-Server-

Instance\_48\_Light.pdf

 $Macro: \ \backslash RAurSQLServerInst$ 



#### Aurora: SQL Server Instance Alternate

 $Res\_Amazon-Aurora-SQL-Server-Instance-$ 

Alternate\_48\_Light.pdf

Macro: \RAurSQLServerInstAltern



### Certificate Manager: Certificate Authority

Res\_AWS-Certificate-Manager\_Certificate-

Authority\_48\_Light.pdf

 $Macro: \ \backslash RCertManCertAuth$ 



#### Cloud Map Namespace

Res\_AWS-Cloud-Map-Namespace\_48\_Light.pdf

Macro: \RCloudMapNamespace



#### Cloud Map Resource

 $Res\_AWS\text{-}Cloud\text{-}Map\text{-}Resource\_48\_Light.pdf$ 

Macro: \RCloudMapRes



### Cloud Map: Service

 $Res\_AWS\text{-}Cloud\text{-}Map\_Service\_48\_Light.pdf$ 

Macro: \RCloudMapSvc



### Cloud9: Cloud9

 $Res\_AWS\text{-}Cloud9\_Cloud9\_48\_Light.pdf$ 

Macro: \RCloudNineCloudNine



### CloudFormation: Change Set

 $Res\_AWS-CloudFormation\_Change-Set\_48\_Light.pdf$ 

Macro: \RCloudFormChangeSet



#### CloudFormation: Stack

 $Res\_AWS\text{-}CloudFormation\_Stack\_48\_Light.pdf$ 

Macro: \RCloudFormStack



### CloudFormation: Template

Res\_AWS-CloudFormation\_Template\_48\_Light.pdf

Macro: \RCloudFormTemplate



#### CloudFront: Download Distribution

 $Res\_Amazon\text{-}CloudFront\_Download-$ 

Distribution\_48\_Light.pdf

Macro: \RCloudFrontDownloadDistr



### CloudFront: Edge Location

Res\_Amazon-CloudFront\_Edge-

Location\_48\_Light.pdf

Macro: \RCloudFrontEdgeLocation



### CloudFront: Streaming Distribution

Res\_Amazon-CloudFront\_Streaming-

Distribution\_48\_Light.pdf

Macro: \RCloudFrontStreamingDistr



#### CloudSearch: Search Documents

 $Res\_Amazon\text{-}CloudSearch\_Search-$ 

Documents\_48\_Light.pdf

Macro: \RCloudSearchSearchDocuments



#### Cloudwatch: Alarm

 $Res\_Amazon-Cloudwatch\_Alarm\_48\_Light.pdf$ 

Macro: \RCloudwatchAlarm



### Cloudwatch: Event Based

Res\_Amazon-Cloudwatch\_Event-Based\_48\_Light.pdf

Macro: \RCloudwatchEventBased



#### Cloudwatch: Event Time Based

Res\_Amazon-Cloudwatch\_Event-Time-

Based\_48\_Light.pdf

Macro: \RCloudwatchEventTimeBased



#### DynamoDB: Amazon DynamoDB Accelerator

Res\_Amazon-DynamoDB\_Amazon-DynamoDB-

Accelerator\_48\_Light.pdf

Macro: \RDDBDDBAccelerator



### Cloudwatch: Logs

Res\_Cloudwatch\_Logs\_48\_Light.pdf

Macro: \RCloudwatchLogs



### DynamoDB: Attribute

Res\_Amazon-DynamoDB\_Attribute\_48\_Light.pdf

Macro: \RDDBAtt



#### Cloudwatch: Rule

Res\_Amazon-Cloudwatch\_Rule\_48\_Light.pdf

Macro: \RCloudwatchRule



#### DynamoDB: Attributes

Res\_Amazon-DynamoDB\_Attributes\_48\_Light.pdf

Macro: \RDDBAtts



### Database Migration Service: Database migration workflow job

Res\_AWS-Database-Migration-Service\_Database-

migration-workflow-job\_48\_Light.pdf

Macro: \RDBMigratSvcDBmigrationworkflowjob



### DynamoDB: Global secondary index

Res\_Amazon-DynamoDB\_Global-secondary-

index\_48\_Light.pdf

Macro: \RDDBGlblsecondaryindex



#### Datasync: Agent

Res\_AWS-Datasync\_Agent\_48\_Light.pdf

Macro: \RDatasyncAgent



### DynamoDB: Item

Res\_Amazon-DynamoDB\_Item\_48\_Light.pdf

Macro: \RDDBItem



### Direct Connect Gateway

Res\_AWS-Direct-Connect-Gateway\_48\_Light.pdf

Macro: \RDirectConnectGateway



 $\neg \Box$ 

### DvnamoDB: Items

Res\_Amazon-DynamoDB\_Items\_48\_Light.pdf

Macro: \RDDBItems



### Directory Service: AD Connector

Res\_AWS-Directory-Service\_AD-

Connector\_48\_Light.pdf

Macro: \RDirSvcADConnector



#### DvnamoDB: Table

Res\_Amazon-DynamoDB\_Table\_48\_Light.pdf

Macro: \RDDBTable



### Directory Service: AWS Managed Microsoft AD

Res\_AWS-Directory-Service\_AWS-Managed-

Microsoft-AD\_48\_Light.pdf Macro: \RDirSvcMngdMSAD



#### EC2: A1 Instance

Res\_Amazon-EC2\_A1-Instance\_48\_Light.pdf

Macro: \RECTwoAOneInst



### Directory Service: Simple AD

Res\_AWS-Directory-Service\_Simple-AD\_48\_Light.pdf

Macro: \RDirSvcSimpleAD



### EC2: AMI: Resource

 $Res\_Amazon-EC2\_AMI\_Resource\_48\_Light.pdf$ 

Macro: \RECTwoAMIRes



#### EC2: AWS Inferentia

Res\_Amazon-EC2\_AWS-Inferentia\_48\_Light.pdf Macro: \RECTwoInferentia



### EC2: Auto Scaling

Res\_Amazon-EC2\_Auto-Scaling\_48\_Light.pdf Macro: \RECTwoAutoScaling



#### EC2: C4 Instance

Res\_Amazon-EC2\_C4-Instance\_48\_Light.pdf Macro: \RECTwoCFourInst



### EC2: C5 Instance

 $Res\_Amazon-EC2\_C5-Instance\_48\_Light.pdf$ Macro:  $\RECTwoCFiveInst$ 



#### EC2: C5n Instance

Res\_Amazon-EC2\_C5n-Instance\_48\_Light.pdf Macro: \RECTwoCFivenInst



### EC2: C6g Instance

Res\_Amazon-EC2\_C6g-Instance\_48\_Light.pdf Macro: \RECTwoCSixgInst



### EC2: D2 Instance

Res\_Amazon-EC2\_D2-Instance\_48\_Light.pdf Macro: \RECTwoDTwoInst



#### EC2: DB Instance

Res\_Amazon-EC2\_DB-Instance\_48\_Light.pdf Macro: \RECTwoDBInst



### EC2: Elastic IP Address

Res\_Amazon-EC2\_Elastic-IP-Address\_48\_Light.pdf Macro: \RECTwoElasticIPAddress



### EC2: F1 Instance

 $Res\_Amazon-EC2\_F1-Instance\_48\_Light.pdf$ Macro: \RECTwoFOneInst



#### EC2: G3 Instance

Res\_Amazon-EC2\_G3-Instance\_48\_Light.pdf Macro: \RECTwoGThreeInst



#### EC2: H1 Instance

Res\_Amazon-EC2\_H1-Instance\_48\_Light.pdf Macro: \RECTwoHOneInst



#### EC2: HMI Instance

 $Res\_Amazon-EC2\_HMI-Instance\_48\_Light.pdf$ Macro: \RECTwoHMIInst



#### EC2: I3 Instance

Res\_Amazon-EC2\_I3-Instance\_48\_Light.pdf Macro:  $\RECTwoIThreeInst$ 



#### EC2: Instance

Res\_Amazon-EC2\_Instance\_48\_Light.pdf Macro: \RECTwoInst



#### EC2: Instance with CloudWatch

Res\_Amazon-EC2\_Instance-with-CloudWatch\_48\_Light.pdf Macro: \RECTwoInstwithCloudWatch



#### EC2: Instances

Res\_Amazon-EC2\_Instances\_48\_Light.pdf Macro: \RECTwoInsts



### EC2: M4 Instance

Res\_Amazon-EC2\_M4-Instance\_48\_Light.pdf Macro: \RECTwoMFourInst



### EC2: M5 Instance

 $Res\_Amazon-EC2\_M5-Instance\_48\_Light.pdf$ Macro: \RECTwoMFiveInst



### EC2: M5a Instance

 $Res\_Amazon-EC2\_M5a-Instance\_48\_Light.pdf$ Macro: \RECTwoMFiveaInst



#### EC2: M5n Instance



### EC2: M6g Instance

Res\_Amazon-EC2\_M6g-Instance\_48\_Light.pdf Macro: \RECTwoMSixgInst



#### EC2: P2 Instance

Res\_Amazon-EC2\_P2-Instance\_48\_Light.pdf Macro: \RECTwoPTwoInst



### EC2: P3 Instance



#### EC2: R4 Instance

Res\_Amazon-EC2\_R4-Instance\_48\_Light.pdf Macro: \RECTwoRFourInst



### EC2: R5 Instance

Res\_Amazon-EC2\_R5-Instance\_48\_Light.pdf Macro: \RECTwoRFiveInst



### EC2: R5a Instance

Res\_Amazon-EC2\_R5a-Instance\_48\_Light.pdf Macro: \RECTwoRFiveaInst



### EC2: R5n Instance

Res\_Amazon-EC2\_R5n-Instance\_48\_Light.pdf Macro: \RECTwoRFivenInst



### EC2: R6g Instance



### EC2: Rescue

Res\_Amazon-EC2\_Rescue\_48\_Light.pdf Macro: \RECTwoRescue



### EC2: Spot Instance



### EC2: T2 Instance

Res\_Amazon-EC2\_T2-Instance\_48\_Light.pdf Macro: \RECTwoTTwoInst



#### EC2: T3 Instance



#### EC2: X1 Instance

 $Res\_Amazon-EC2\_X1-Instance\_48\_Light.pdf\\ Macro: \ \ \ \ \\ RECTwoXOneInst$ 



#### EC2: X1e Instance



#### EC2: z1d Instance

Res\_Amazon-EC2\_z1d-Instance\_48\_Light.pdf Macro: \RECTwozOnedInst



### EMR: Cluster



### EMR: EMR Engine

Res\_Amazon-EMR\_EMR-Engine\_48\_Light.pdf Macro: \REMREMREngine



#### EMR: EMR Engine MapR M3

 $Res\_Amazon-EMR\_EMR-Engine-MapR-M3\_48\_Light.pdf$ 

 $Macro: \ \backslash REMREMREngineMapRMThree$ 



#### EMR: EMR Engine MapR M5

Res\_Amazon-EMR\_EMR-Engine-MapR-M5\_48\_Light.pdf

Macro: \REMREMREngineMapRMFive



### EMR: EMR Engine MapR M7

Res\_Amazon-EMR\_EMR-Engine-MapR-

M7\_48\_Light.pdf

Macro: \REMREMREngineMapRMSeven



#### EMR: HDFS Cluster

Res\_Amazon-EMR\_HDFS-Cluster\_48\_Light.pdf

Macro: \REMRHDFSCluster



#### ElastiCache: Cache Node

Res\_Amazon-ElastiCache\_Cache-Node\_48\_Light.pdf

Macro: \RElastiCacheCacheNode



#### ElastiCache: ElastiCache for Memcached

Res\_Amazon-ElastiCache\_ElastiCache-for-

Memcached\_48\_Light.pdf

Macro: \RElastiCacheElastiCacheforMemcached



#### ElastiCache: ElastiCache for Redis

Res\_Amazon-ElastiCache\_ElastiCache-for-

Redis\_48\_Light.pdf

Macro: \RElastiCacheElastiCacheforRedis



#### Elastic Beanstalk: Application

Res\_Amazon-Elastic-Beanstalk\_Application\_48\_Light.pdf

Macro: \REBApp



### Elastic Beanstalk: Deployment

Res\_Amazon-Elastic-Beanstalk\_Deployment\_48\_Light.pdf

Macro: \REBDeployment



### Elastic Block Store: Multiple Volumes

Res\_Amazon-Elastic-Block-Store\_Multiple-

Volumes\_48\_Light.pdf Macro: \REBSMultVols



### Elastic Block Store: Snapshot

Res\_Amazon-Elastic-Block-Store\_Snapshot\_48\_Light.pdf

Macro: \REBSSnapshot



#### Elastic Block Store: Volume

Res\_Amazon-Elastic-Block-Store\_Volume\_48\_Light.pdf

Macro: \REBSVol



#### Elastic Container Registry: Image

Res\_Amazon-Elastic-Container-Registry\_Image\_48\_Light.pdf

Macro: \RECRImg



#### Elastic Container Registry: Registry

Res\_Amazon-Elastic-Container-Registry\_Registry\_48\_Light.pdf

Macro: \RECRReg



#### Elastic Container Service: Container 1

Res\_Amazon-Elastic-Container-Service\_Container-

1\_48\_Light.pdf

Macro: \RECSContainerOne



### Elastic Container Service: Container 2

Res\_Amazon-Elastic-Container-Service\_Container-

 $2_48$ Light.pdf

Macro: \RECSContainerTwo



### Elastic Container Service: Container 3

Res\_Amazon-Elastic-Container-Service\_Container-

3\_48\_Light.pdf

Macro: \RECSContainerThree



#### Elastic Container Service: Service

Res\_Amazon-Elastic-Container-Service\_Service\_48\_Light.pdf

Macro: \RECSSvc





#### Elastic Container Service: Task

Res\_Amazon-Elastic-Container-Service\_Task\_48\_Light.pdf Macro: \RECSTask



### EventBridge: Custom Event Bus

Res\_Amazon-EventBridge\_Custom-Event-

Bus\_48\_Light.pdf

Macro: \REvBrCustomEventBus



### Elastic File System: File System

Res\_Amazon-Elastic-File-System\_File-System\_48\_Light.pdf

Macro: \REFSFileSystem





### Elastic Load Balancing: Application Load Balancer

Res\_Elastic-Load-Balancing\_Application-Load-

Balancer\_48\_Light.pdf Macro: \RELBAppLB



### Elastic Load Balancing: Classic Load Balancer

Res\_Elastic-Load-Balancing\_Classic-Load-

Balancer\_48\_Light.pdf Macro: \RELBClassicLB



### Elastic Load Balancing: Network Load Balancer

Res\_Elastic-Load-Balancing\_Network-Load-

Balancer\_48\_Light.pdf Macro: \RELBNetworkLB



### Email

Res\_Email\_48\_Light.pdf Macro: \REmail



#### EventBridge Event

Res\_Amazon-EventBridge-Event\_48\_Light.pdf

Macro: \REvBrEvent



### EventBridge Rule

Res\_Amazon-EventBridge-Rule\_48\_Light.pdf

Macro: \REvBrRule



#### EventBridge Saas Partner Event

Res\_Amazon-EventBridge-Saas-Partner-

Event\_48\_Light.pdf

Macro: \REvBrSaasPartnerEvent



# EventBridge: Default Event Bus

Res\_Amazon-EventBridge\_Default-Event-

Bus\_48\_Light.pdf

Macro: \REvBrDfltEventBus



#### Firewall

Res\_Firewall\_48\_Light.pdf

Macro: \RFirewall



#### Glue: Crawler

Res\_AWS-Glue\_Crawler\_48\_Light.pdf

Macro: \RGlueCrawler



### Glue: Data Catalog

Res\_AWS-Glue\_Data-Catalog\_48\_Light.pdf

Macro: \RGlueDataCatalog



### Identity Access Management: AWS IAM Access

Analyzer

 $Res\_AWS\text{-}Identity\text{-}Access\text{-}Management\_AWS\text{-}IAM\text{-}$ 

Access-Analyzer\_48\_Light.pdf Macro: \RIAMIAMAccessAnalyzer



### Identity Access Management: AWS STS

Res\_AWS-Identity-Access-Management\_AWS-

STS\_48\_Light.pdf Macro: \RIAMSTS



#### Identity Access Management: AWS STS Alternate

Res\_AWS-Identity-Access-Management\_AWS-STS-Alternate\_48\_Light.pdf

Macro: \RIAMSTSAltern



Identity Access Management: Add on

Res\_AWS-Identity-Access-Management\_Addon\_48\_Light.pdf Macro: \RIAMAddon



Identity Access Management: Data Encryption Key

Res\_AWS-Identity-Access-Management\_Data-

Encryption-Key\_48\_Light.pdf Macro: \RIAMDataEncrKey



Identity Access Management: Encrypted Data

Res\_AWS-Identity-Access-Management\_Encrypted-

Data\_48\_Light.pdf

Macro: \RIAMEncrdData



Identity Access Management: Long Term Security Credential

Res\_AWS-Identity-Access-Management\_Long-Term-

Security-Credential\_48\_Light.pdf Macro: \RIAMLongTermSecCred



Identity Access Management: MFA Token

Res\_AWS-Identity-Access-Management\_MFA-

Token\_48\_Light.pdf

Macro:  $\RIAMMFAToken$ 



Identity Access Management: Permissions

Res\_AWS-Identity-Access-

Management\_Permissions\_48\_Light.pdf

Macro: \RIAMPermissions



Identity Access Management: Role

Res\_AWS-Identity-Access-

Management\_Role\_48\_Light.pdf

Macro: \RIAMRole



Identity Access Management: Temporary Security Credential

Res\_AWS-Identity-Access-Management\_Temporary-

Security-Credential\_48\_Light.pdf Macro: \RIAMTemporarySecCred



Inspector: Agent

Res\_Amazon-Inspector\_Agent\_48\_Light.pdf

Macro: \RInspectorAgent



IoT Analytics: Channel

Res\_AWS-IoT-Analytics\_Channel\_48\_Light.pdf

Macro: \RIoTAnalyticsChannel



IoT Analytics: Data Set

Res\_AWS-IoT-Analytics\_Data-Set\_48\_Light.pdf

Macro: \RIoTAnalyticsDataSet



IoT Analytics: Data Store

Res\_AWS-IoT-Analytics\_Data-Store\_48\_Light.pdf

Macro: \RIoTAnalyticsDataStore



IoT Analytics: Notebook

Res\_AWS-IoT-Analytics\_Notebook\_48\_Light.pdf

Macro: \RIoTAnalyticsNotebook



IoT Analytics: Pipeline

Res\_AWS-IoT-Analytics\_Pipeline\_48\_Light.pdf

Macro: \RIoTAnalyticsPipeline



IoT Device Defender: IoT Device Jobs

Res\_AWS-loT-Device-Defender\_IoT-Device-

Jobs\_48\_Light.pdf

Macro: \RIoTDevDefenderIoTDevJobs



IoT Greengrass: Connector

Res\_AWS-IoT-Greengrass\_Connector\_48\_Light.pdf

Macro: \RIoTGreengrassConnector



IoT HTTP: Protocol

Res\_IoT-HTTP\_Protocol\_48\_Light.pdf

Macro: \RIoTHTTPProtocol



IoT Hardware Board

Res\_IoT-Hardware-Board\_48\_Light.pdf

Macro: \RIoTHardwareBoard



#### IoT MQTT: Protocol

 $Res\_IoT-MQTT\_Protocol\_48\_Light.pdf$ 

Macro:  $\RIoTMQTTProtocol$ 



### IoT Rule

Res\_IoT-Rule\_48\_Light.pdf Macro: \RIoTRule



### IoT Thing: Bank

Res\_IoT-Thing\_Bank\_48\_Light.pdf

Macro: \RIoTThngBank



### IoT Thing: Bicycle

Res\_IoT-Thing\_Bicycle\_48\_Light.pdf

Macro: \RIoTThngBicycle



### IoT Thing: Camera

Res\_IoT-Thing\_Camera\_48\_Light.pdf

Macro: \RIoTThngCamera



### IoT Thing: Car

 $Res\_IoT\text{-}Thing\_Car\_48\_Light.pdf$ 

Macro: \RIoTThngCar



### IoT Thing: Cart

Res\_IoT-Thing\_Cart\_48\_Light.pdf

Macro: \RIoTThngCart



### IoT Thing: Coffee Pot

Res\_IoT-Thing\_Coffee-Pot\_48\_Light.pdf

Macro: \RIoTThngCoffeePot



### IoT Thing: Door Lock

Res\_IoT-Thing\_Door-Lock\_48\_Light.pdf

Macro: \RIoTThngDoorLock



### IoT Thing: Factory

Res\_IoT-Thing\_Factory\_48\_Light.pdf

Macro: \RIoTThngFactory



### IoT Thing: Generic

Res\_IoT-Thing\_Generic\_48\_Light.pdf

Macro: \RIoTThngGeneric



### IoT Thing: House

Res\_IoT-Thing\_House\_48\_Light.pdf

Macro: \RIoTThngHouse



#### IoT Thing: Lightbulb

Res\_IoT-Thing\_Lightbulb\_48\_Light.pdf

Macro: \RIoTThngLightbulb



#### IoT Thing: Medical Emergency

Res\_IoT-Thing\_Medical-Emergency\_48\_Light.pdf

Macro: \RIoTThngMedEmerg



### IoT Thing: Police Emergency

Res\_IoT-Thing\_Police-Emergency\_48\_Light.pdf

Macro: \RIoTThngPoliceEmerg



### IoT Thing: Thermostat

Res\_IoT-Thing\_Thermostat\_48\_Light.pdf

Macro: \RIoTThngThermostat



### IoT Thing: Travel

Res\_IoT-Thing\_Travel\_48\_Light.pdf

Macro: \RIoTThngTravel



#### IoT Thing: Utility

Res\_IoT-Thing\_Utility\_48\_Light.pdf

Macro: \RIoTThngUtility



### IoT Thing: Windfarm

Res\_IoT-Thing\_Windfarm\_48\_Light.pdf

Macro: \RIoTThngWindfarm



### IoT: Action

Res\_IoT\_Action\_48\_Light.pdf

Macro: \RIoTAction



IoT: Actuator

 $Res\_IoT\_Actuator\_48\_Light.pdf$ 

Macro: \RIoTActuator



IoT: Alexa: Enabled Device

 $Res\_IoT\_Alexa\_Enabled-Device\_48\_Light.pdf$ 

Macro: \RIoTAlexaEnabledDev



IoT: Alexa: Skill

Res\_IoT\_Alexa\_Skill\_48\_Light.pdf

Macro: \RIoTAlexaSkill



IoT: Alexa: Voice Service

 $Res\_IoT\_Alexa\_Voice-Service\_48\_Light.pdf$ 

Macro:  $\RIoTAlexaVoiceSvc$ 



IoT: Certificate

Res\_IoT\_Certificate\_48\_Light.pdf

Macro: \RIoTCert



IoT: Desired State

Res\_IoT\_Desired-State\_48\_Light.pdf

Macro: \RIoTDesiredState



IoT: Device Gateway

 $Res\_IoT\_Device-Gateway\_48\_Light.pdf$ 

Macro: \RIoTDevGateway



IoT: Echo

Res\_IoT\_Echo\_48\_Light.pdf

Macro: \RIoTEcho



IoT: Fire TV: Stick

 $Res\_IoT\_Fire-TV\_Stick\_48\_Light.pdf$ 

Macro:  $\RIoTFireTVStick$ 



IoT: Fire: TV

Res\_IoT\_Fire\_TV\_48\_Light.pdf

Macro:  $\RIoTFireTV$ 



IoT: HTTP2 Protocol

 $Res\_IoT\_HTTP2-Protocol\_48\_Light.pdf$ 

 $Macro: \ \backslash RIoTHTTPTwoProtocol$ 



IoT: Lambda: Function

Res\_IoT\_Lambda\_Function\_48\_Light.pdf

Macro: \RIoTLambdaFunc



IoT: Over Air Update

 $Res\_IoT\_Over-Air-Update\_48\_Light.pdf$ 

Macro: \RIoTOverAirUpdate



IoT: Policy

 $Res\_IoT\_Policy\_48\_Light.pdf$ 

Macro: \RIoTPolicy



IoT: Reported State

 $Res\_IoT\_Reported-State\_48\_Light.pdf$ 

Macro: \RIoTReportedState



IoT: Sensor

Res\_IoT\_Sensor\_48\_Light.pdf

Macro: \RIoTSensor



IoT: Servo

Res\_IoT\_Servo\_48\_Light.pdf

Macro: \RIoTServo



IoT: Shadow

Res\_IoT\_Shadow\_48\_Light.pdf

Macro: \RIoTShadow



IoT: Simulator

Res\_IoT\_Simulator\_48\_Light.pdf

Macro: \RIoTSimulator



IoT: Topic

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Macro: \RIoTTopic



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### RoboMaker: Development Environment

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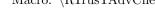
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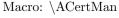
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#### Global Accelerator

Arch\_AWS-Global-Accelerator\_64.pdf Macro: \AGlblAccelerator



#### $\mathrm{Glu}\epsilon$

 $\begin{array}{l} Arch\_AWS\text{-}Glue\_64.pdf \\ Macro: \ \backslash AGlue \end{array}$ 



#### Ground Station

Arch\_AWS-Ground-Station\_64.pdf Macro: \AGroundStation



### GuardDuty

Arch\_Amazon-GuardDuty\_64.pdf Macro: \AGuardDuty



### IQ

 $Arch\_AWS-IQ\_64.pdf$ Macro: AIQ



### Identity and Access Management

Arch\_AWS-Identity-and-Access-Management\_64.pdf Macro:  $\AIAM$ 



### Infrequent Access Storage Class

 $\label{lem:arch_infrequent-Access-Storage-Class\_64.pdf} Arch\_Infrequent-Access-Storage-Class\_64.pdf$   $\label{lem:arch_infrequent-Access-Storage-Class} Arch\_Infrequent-Access-Storage-Class\_64.pdf$ 



### Inspector

Arch\_Amazon-Inspector\_64.pdf Macro: \AInspector



### Interactive Video

Arch\_Amazon-Interactive-Video\_64.pdf Macro: \AInteractiveVideo



### IoT 1 Click

Arch\_AWS-IoT-1-Click\_64.pdf Macro: \AIoTOneClick



### IoT Analytics

 $\label{lem:arch_AWS-IoT-Analytics_64.pdf} Arch\_AWS-IoT-Analytics\_64.pdf \\ Macro: \AIoTAnalytics$ 



### IoT Button

$$\begin{split} & Arch\_AWS\text{-}IoT\text{-}Button\_64.pdf \\ & Macro: \ \backslash AIoTButton \end{split}$$



IoT Core

Arch\_AWS-IoT-Core\_64.pdf

Macro: \AIoTCore



#### IoT Device Defender

 $Arch\_AWS\text{-}IoT\text{-}Device\text{-}Defender\_64.pdf$ 

Macro: \AIoTDevDefender



### IoT Device Management

Arch\_AWS-IoT-Device-Management\_64.pdf

Macro: \AIoTDevManagement



#### IoT Events

 $Arch\_AWS-IoT-Events\_64.pdf$ 

Macro: \AIoTEvents



### IoT Greengrass Core

 $Arch\_AWS-IoT-Greengrass-Core\_64.pdf$ 

Macro: \AIoTGreengrassCore



### IoT SiteWise

Arch\_AWS-IoT-SiteWise\_64.pdf

Macro: \AIoTSiteWise



### IoT Things Graph

Arch\_AWS-IoT-Things-Graph\_64.pdf

Macro: \AIoTThngsGraph



#### Kendra

Arch\_Amazon-Kendra\_64.pdf

Macro: \AKendra



### **Key Management Services**

Arch\_AWS-Key-Management-Services\_64.pdf

Macro: \AKMS



### Keyspaces

Arch\_Amazon-Keyspaces\_64.pdf

Macro: \AKeyspaces



#### Kinesis

Arch\_Amazon-Kinesis\_64.pdf

Macro: \AKin



### Kinesis Data Analytics

 $Arch\_Amazon-Kinesis-Data-Analytics\_64.pdf$ 

Macro: \AKinDataAnalytics



#### Kinesis Data Streams

Arch\_Amazon-Kinesis-Data-Streams\_64.pdf

Macro: \AKinDataStreams



#### Kinesis Firehose

Arch\_Amazon-Kinesis-Firehose\_64.pdf

Macro: \AKinFirehose



### Kinesis Video Streams

Arch\_Amazon-Kinesis-Video-Streams\_64.pdf

Macro: \AKinVideoStreams



### Lake Formation

Arch\_AWS-Lake-Formation\_64.pdf

Macro: \ALakeFormation



### Lambda

Arch\_AWS-Lambda\_64.pdf

Macro: \ALambda



#### Lex

Arch\_Amazon-Lex\_64.pdf

Macro: \ALex



### License Manager

Arch\_AWS-License-Manager\_64.pdf

Macro: \ALicnsMngr



### Lightsail

Arch\_Amazon-Lightsail\_64.pdf

Macro: \ALightsail



#### Local Zones

Arch\_AWS-Local-Zones\_64.pdf

Macro: \ALocalZones



### Lumberyard

 $Arch\_Amazon-Lumberyard\_64.pdf$ 

Macro: \ALumberyard



### MQ

Arch\_Amazon-MQ\_64.pdf

Macro: \AMQ



#### Macie

 $Arch\_Amazon-Macie\_64.pdf$ 

Macro: \AMacie



### Managed Blockchain

 $Arch\_Amazon-Managed-Blockchain\_64.pdf$ 

Macro: \AMngdBlockchain



### Managed Services

Arch\_AWS-Managed-Services\_64.pdf

Macro: \AMngdSvcs



### Managed Streaming for Kafka

Arch\_Amazon-Managed-Streaming-for-Kafka\_64.pdf

Macro: \AMngdStreamingforKafka



#### Management Console

 $Arch\_AWS-Management-Console\_64.pdf$ 

Macro: \AManagementConsole



### Migration Hub

Arch\_AWS-Migration-Hub\_64.pdf

Macro: \AMigratHub



### Neptune

Arch\_Amazon-Neptune\_64.pdf

Macro: \ANeptune



#### Neuron ML SDK

Arch\_Amazon-Neuron-ML-SDK\_64.pdf

Macro: \ANeuronMLSDK



#### Nitro Enclaves

Arch\_AWS-Nitro-Enclaves\_64.pdf

Macro: \ANitroEnclaves



#### OpsWorks

Arch\_AWS-OpsWorks\_64.pdf

Macro: \AOpWk



### Organizations

 $Arch\_AWS-Organizations\_64.pdf$ 

Macro: \AOrganizations



### Outposts

Arch\_AWS-Outposts\_64.pdf

Macro: \AOutposts



### Parallel Cluster

Arch\_AWS-Parallel-Cluster\_64.pdf

Macro: \AParallelCluster



### Personal Health Dashboard

Arch\_AWS-Personal-Health-Dashboard\_64.pdf

Macro: \APersHlthDbrd



#### Personalize

Arch\_Amazon-Personalize\_64.pdf

Macro: \APersonalize



### Pinpoint

Arch\_Amazon-Pinpoint\_64.pdf

Macro: \APinpoint



### Pinpoint Journey

 $Arch\_Amazon-Pinpoint-Journey\_64.pdf$ 

Macro: \APinpointJourney



Polly

Arch\_Amazon-Polly\_64.pdf

Macro: \APolly



#### PrivateLink

Arch\_AWS-PrivateLink\_64.pdf Macro: \APrivateLink



### Professional Services

 $Arch\_AWS-Professional-Services\_64.pdf$ 

Macro: \AProfessionalSvcs



### Quantum Ledger Database

 $Arch\_Amazon-Quantum-Ledger-Database\_64.pdf$ 

Macro: \AQuantumLedgerDB



### QuickSight

Arch\_Amazon-QuickSight\_64.pdf

Macro: \AQuickSight



### RDS

Arch\_Amazon-RDS\_64.pdf

Macro: \ARDS



### RDS for VMware

Arch\_Amazon-RDS-for-VMware\_64.pdf

Macro: \ARDSforVMware



### Redshift

Arch\_Amazon-Redshift\_64.pdf

Macro: \ARedshift



#### Redshiftct

Arch\_Amazon-Redshiftct\_64.pdf

Macro: \ARedshiftct



### Rekognition

Arch\_Amazon-Rekognition\_64.pdf

Macro: \ARekognition



### Reserved Instance Reporting

 $Arch\_Reserved\text{-}Instance\text{-}Reporting\_64.pdf$ 

Macro: \AReservedInstReporting



### Resources Access Manager

 $Arch\_AWS-Resources-Access-Manager\_64.pdf$ 

Macro: \ARessAccessMngr



#### RoboMaker

Arch\_AWS-RoboMaker\_64.pdf

Macro: \ARoboMaker



#### Route 53

 $Arch\_Amazon-Route-53\_64.pdf$ 

Macro: \ARouteFiveThree



### S3 Standard

Arch\_Amazon-S3-Standard\_64.pdf

Macro: \ASThreeStandard



### SageMaker

Arch\_AWS-SageMaker\_64.pdf

Macro: \ASageMaker



### SageMaker Ground Truth

Arch\_AWS-SageMaker-Ground-Truth\_64.pdf

Macro: \ASageMakerGroundTruth



#### Savings Plans

Arch\_Savings-Plans\_64.pdf

Macro: \ASavingsPlans



### Secrets Manager

Arch\_AWS-Secrets-Manager\_64.pdf

Macro: \ASecretsMngr



### Security Hub

 $Arch\_AWS$ -Security-Hub\_64.pdf

Macro: \ASecHub



### Server Migration Service

Arch\_AWS-Server-Migration-Service\_64.pdf

Macro: \AServerMigratSvc



### Snowball Edge

Arch\_AWS-Snowball-Edge\_64.pdf Macro: \ASnowballEdge





### Serverless Application Repository

Arch\_AWS-Serverless-Application-Repository\_64.pdf

Macro: \ASvlsAppRepo



### Snowcone

Arch\_AWS-Snowcone\_64.pdf

Macro: \ASnowcone



### Service Catalog

Arch\_AWS-Service-Catalog\_64.pdf

Macro: \ASvcCatalog



#### Snowmobile

Arch\_AWS-Snowmobile\_64.pdf Macro: \ASnowmobile



#### Shield

Arch\_AWS-Shield\_64.pdf

Macro: \AShield



### Standard Storage Class

Arch\_Standard-Storage-Class\_64.pdf Macro: \AStandardStorageClass



### Simple Email Service

Arch\_AWS-Simple-Email-Service\_64.pdf

Macro: \ASimpleEmailSvc



### Step Functions

Arch\_AWS-Step-Functions\_64.pdf

Macro: \AStepFuncs



### Simple Notification Service

Arch\_AWS-Simple-Notification-Service\_64.pdf

Macro: \ASimpleNotifSvc



### Storage Gateway

Arch\_AWS-Storage-Gateway\_64.pdf

Macro: \AStorGat



### Simple Queue Service

Arch\_AWS-Simple-Queue-Service\_64.pdf

Macro: \ASQS



### Sumerian

Arch\_AWS-Sumerian\_64.pdf

Macro: \ASumerian



#### Single Sign On

Arch\_AWS-Single-Sign-On\_64.pdf

Macro: \ASingleSignOn



#### Support

Arch\_AWS-Support\_64.pdf

Macro: \ASupport



#### Site to Site VPN

Arch\_AWS-Site-to-Site-VPN\_64.pdf

Macro: \ASitetoSiteVPN



### Systems Manager

Arch\_AWS-Systems-Manager\_64.pdf

Macro: \ASystemsMngr



### Snowball

Arch\_AWS-Snowball\_64.pdf

Macro: \ASnowball



### TensorFlow on AWS

 $Arch\_AWS$ -TensorFlow-on-AWS\_64.pdf

Macro: \ATensorFlowon



#### Textract

Arch\_AWS-Textract\_64.pdf

Macro: \ATextract



### ThinkBox Deadline

Arch\_AWS-ThinkBox-Deadline\_64.pdf

Macro: \ATBDeadline



#### ThinkBox Frost

 $Arch\_AWS-ThinkBox-Frost\_64.pdf$ 

Macro: \ATBFrost



### ThinkBox Krakatoa

 $Arch\_AWS-ThinkBox-Krakatoa\_64.pdf$ 

Macro: \ATBKrakatoa



### ThinkBox Sequoia

Arch\_AWS-ThinkBox-Sequoia\_64.pdf

Macro: \ATBSequoia



#### ThinkBox Stoke

Arch\_AWS-ThinkBox-Stoke\_64.pdf

Macro: \ATBStoke



### ThinkBox XMesh

 $Arch\_AWS-ThinkBox-XMesh\_64.pdf$ 

Macro: \ATBXMesh



#### Timestream

Arch\_Amazon-Timestream\_64.pdf

Macro: \ATimestream



#### Tools and SDK

 $Arch\_AWS\text{-}Tools\text{-}and\text{-}SDK\_64.pdf$ 

Macro:  $\AToolsandSDK$ 



### TorchServe

Arch\_TorchServe\_64.pdf

Macro: \ATorchServe



#### Training Certification

 $Arch\_AWS\text{-}Training\text{-}Certification\_64.pdf$ 

Macro: \ATrainCert



#### Transcribe

 $Arch\_Amazon-Transcribe\_64.pdf$ 

Macro: \ATranscribe



### Transfer Family

 $Arch\_AWS-Transfer-Family\_64.pdf$ 

Macro: \ATranFam



#### Transit Gateway

 $Arch\_AWS-Transit-Gateway\_64.pdf$ 

Macro: \ATransitGateway



### Translate

 $Arch\_Amazon-Translate\_64.pdf$ 

Macro:  $\ATranslate$ 



### Trusted Advisor

Arch\_AWS-Trusted-Advisor\_64.pdf

Macro: \ATrusTAdv



### VMware Cloud on AWS

Arch\_VMware-Cloud-on-AWS\_64.pdf

Macro: \AVMwareCloudon



#### VPN

Arch\_AWS-VPN\_64.pdf

Macro: \AVPN



### WAF

Arch\_AWS-WAF\_64.pdf

Macro: \AWAF



### Wavelength

 $Arch\_AWS-Wavelength\_64.pdf$ 

Macro: \AWavelength



#### Well Architect Tool

Arch\_AWS-Well-Architect-Tool\_64.pdf Macro: \AWellArchitectTool



### WorkDocs



### WorkLink

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#### WorkMail

 $Arch\_Amazon-WorkMail\_64.pdf \\ Macro: \AWorkMail$ 



### WorkSpaces



### X Ray

 $\begin{array}{l} Arch\_AWS-X-Ray\_64.pdf \\ Macro: \ \backslash AXRay \end{array}$ 

# A Mapping of icon names to macros names

In order to have reasonably short macro names, the following mappings have been made by aws2tex, being careful not to introduce any naming collisions. In addition, LaTeX macros cannot contain numbers, so all numbers have been mapped to words, i.e.  $1 \to \text{One}$ ,  $5 \to \text{Five}$ , etc. The below mappings are applied in order, followed by the number mappings.

1.	${\tt CertificateManager} \to {\tt CertMan}$	31.	$Vault \rightarrow Vlt$	61.	$\mathrm{Global} \to \mathrm{Glbl}$
2.	$Application Discovery Service  \rightarrow  ADS$	32.	$Archive \rightarrow Archv$	62.	$\mathrm{Multiple}\rightarrow\mathrm{Mult}$
3.	${\tt CommandLineInterface}  \rightarrow  {\tt CLI}$	33.	$Application  \to  App$	63.	$\text{Volumes}  \rightarrow  \text{Vols}$
4.	${\tt CostandUsageReport \rightarrow CostUseRep}$	34.	$\operatorname{Replication} \to \operatorname{Repli}$	64.	$\mathrm{Volume}\rightarrow\mathrm{Vol}$
5.	${\tt CloudFormation}  \rightarrow  {\tt CloudForm}$	35.	$Points \rightarrow Pts$	65.	$\mathrm{Default}  \to  \mathrm{Dflt}$
6.	${\tt KeyManagementServices} \rightarrow {\tt KMS}$	36.	$Intelligent  \to  Intell$	66.	$\rm Image \to Img$
7.	$ElasticBlockStore  \rightarrow  EBS$	37.	${\it TrainingCertification} \to {\it TrainCert}$	67.	$\text{Registry} \rightarrow \text{Reg}$
8.	${\tt ElasticContainerRegistry}  \rightarrow  {\tt ECR}$	38.	$\mathrm{Kinesis} \to \mathrm{Kin}$	68.	Elemental $\rightarrow$ Elem
9.	$ElasticBeanstalk \rightarrow EB$	39.	${\rm Aurora}  \to  {\rm Aur}$	69.	$Managed \rightarrow Mngd$
10.	${\tt ElasticContainerService}  \to  {\tt ECS}$	40.	$Alternate \rightarrow Altern$	70.	$Microsoft \rightarrow MS$
11.	$ElasticLoadBalancing \rightarrow ELB$	41.	$\rm Amazon \rightarrow$		$Development \rightarrow Dev$
12.	$IdentityAccessManagement \rightarrow IAM$	42.	$\mathrm{AWS} \rightarrow$		Device $\rightarrow$ Dev
13.	ElasticContainerKubernetes $\rightarrow$ ECK	43.	${\sf PersonalHealthDashboard}  \to  {\sf PersHlthDbrd}$		$Database \rightarrow DB$
14.	$ElasticFileSystem  \rightarrow  EFS$	44.	${\rm Manager}  \to  {\rm Mngr}$		ThinkBox $\rightarrow$ TB
15.	${\it ElasticNetworkAdapter}  \rightarrow  {\it ENA}$	45.	${\it License} \to {\it Licns}$		
16.	${\it ElasticNetworkInterface}  \rightarrow  {\it ENI}$	46.	$EventBridge \rightarrow EvBr$		Authority → Auth
17.	$Virtual Private Cloud \rightarrow VPN$	47.	$Route 53 \rightarrow Rt 53$		Distribution → Distr
18.	$Identity and Access Management  \rightarrow  IAM$	48.	${\rm DynamoDB} \rightarrow {\rm DDB}$		$Directory \rightarrow Dir$
19.	Serverless Application Repository $\rightarrow$ Svls App Repo	49.	$Bucket \to Bkt$	78.	Instance $\rightarrow$ Inst
20.	$OpsWorks \rightarrow OpWk$	50.	$Simple Notification Service  \rightarrow  SNS$	79.	$Virtual \rightarrow Virt$
21.	$SnowballSnowball \rightarrow Snowball$	51.	$SimpleQueueService  \rightarrow  SQS$	80.	$\mathrm{Database}  \rightarrow  \mathrm{DB}$
22.	$Encryption \rightarrow Encr$	52.	$StorageGateway \rightarrow StorGat$	81.	$Attributes \rightarrow Atts$
23.	$Encrypted \rightarrow Encrd$	53.	${\rm SystemManager}  \rightarrow  {\rm SysMgr}$	82.	$Attribute \rightarrow Att$
24.	Thing $\rightarrow$ Thng	54.	$LoadBalancer \rightarrow LB$	83.	Security $\rightarrow$ Sec
25.	$\mathrm{Medical} \to \mathrm{Med}$	55.	${\it Migration}  \to  {\it Migrat}$	84.	$Service  \to  Svc$
26.	$Compute \rightarrow Cmput$	56.	Transfer Family $\rightarrow$ Tran Fam	85.	${\it Credential}  \to  {\it Cred}$
27.	$Simulation \rightarrow Simul$	57.	${\it TrustedAdvisor}  \rightarrow  {\it TrusTAdv}$	86.	Emergency $\rightarrow$ Emerg
28.	Notification $\rightarrow$ Notif	58.	$Certificate \rightarrow Cert$	87.	Function $\rightarrow$ Func
29.	$Object \rightarrow Obj$	59.	${\rm Recovery}  \to  {\rm Recov}$	88.	${\rm Organizational}\rightarrow{\rm Org}$
30.	$\mathrm{General} \to \mathrm{Gen}$	60.	Resource $\rightarrow$ Res	89.	$SThreeSThree \rightarrow SThr$

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