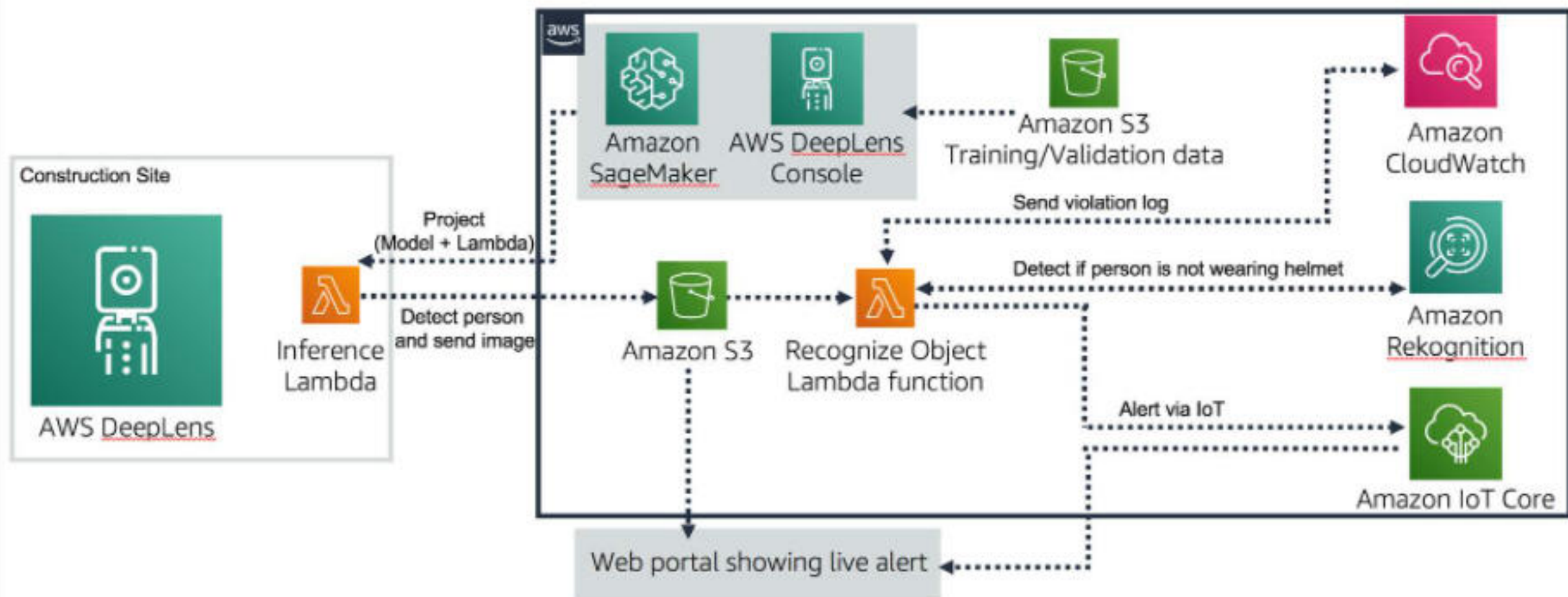


# Application Architecture



# The object detection project is bundled with a model and Lambda function



Object detection sample project

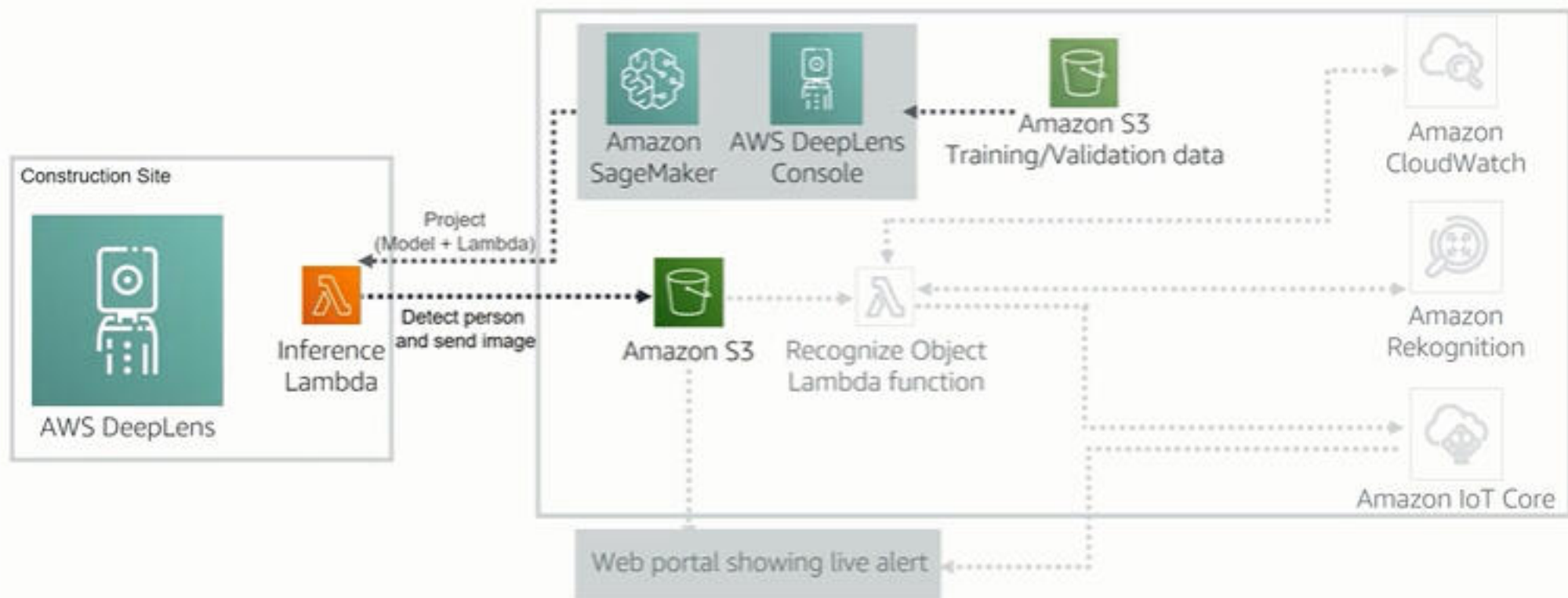


Detects 20 different objects

- People
- Dogs
- Trees
- Etc.

# Create and deploy the project to the device

## Images to Amazon S3



# Create and deploy the project to the device



Web portal showing live alert

-1:26



## Create role

1

2

3

4

## Select type of trusted entity

**AWS service**

EC2, Lambda and others

**Another AWS account**

Belonging to you or 3rd party

**Web identity**

Cognito or any OpenID provider

**SAML 2.0 federation**

Your corporate directory

Allows AWS services to perform actions on your behalf. [Learn more](#)

## Choose the service that will use this role

**EC2**

Allows EC2 instances to call AWS services on your behalf.

**Lambda**

Allows Lambda functions to call AWS services on your behalf.

API Gateway

CodeBuild

EKS

Lambda

SMS

AWS Backup

CodeDeploy

EMR

Lex

SNS

AWS Support

Config

ElastiCache

License Manager

SWF

Amplify

Connect

Elastic Beanstalk

Machine Learning

SageMaker

AppSync

DMS

Elastic Container Service

Macie

Security Hub



\* Required

Cancel

-3:25

Next: Permissions





Create policy



Filter policies

Q rekog

I

Showing 3 results

	Policy name	Used as	Description
<input type="checkbox"/>	▶  AmazonRekognitionFullAccess	Permissions policy (10)	Access to all Amazon Rekognition APIs
<input checked="" type="checkbox"/>	▶  AmazonRekognitionReadOnlyAccess	Permissions policy (4)	Access to all Read rekognition APIs
<input type="checkbox"/>	▶  AmazonRekognitionServiceRole	Permissions policy (4)	Allows Rekognition to call AWS services ...

▶ Set permissions boundary

\* Required

Cancel

Previous

Next: Tags

Create policy



Filter policies

cloudwatch

Showing 17 results

	Policy name	Used as	Description
<input type="checkbox"/>	CloudWatchEventsBuiltInTargetExecutionAccess	None	Allows built-in targets in Amazon Cloud...
<input type="checkbox"/>	CloudWatchEventsFullAccess	None	Provides full access to Amazon CloudW...
<input type="checkbox"/>	CloudWatchEventsInvocationAccess	None	Allows Amazon CloudWatch Events to re...
<input type="checkbox"/>	CloudWatchEventsReadOnlyAccess	None	Provides read only access to Amazon Cl...
<input type="checkbox"/>	CloudWatchEventsServiceRolePolicy	None	Allow AWS CloudWatch to execute actio...
<input type="checkbox"/>	CloudWatchFullAccess	Permissions policy (11)	Provides full access to CloudWatch.
<input type="checkbox"/>	CloudWatchLogsFullAccess	Permissions policy (7)	Provides full access to CloudWatch Logs
<input type="checkbox"/>	CloudWatchLogsReadOnlyAccess	None	Provides read only access to CloudWatc...
<input type="checkbox"/>	...	...	...

▶ Set permissions boundary

\* Required

Cancel

Previous

Next: Tags

Create policy



Filter policies

Q iotdata

Showing 1 result

	Policy name	Used as	Description
	AWSIoTDataAccess	Permissions policy (11)	This policy gives full access to the AWS I...

▶ Set permissions boundary



\* Required



Cancel

Previous

2:40

Next: Tags







Services ▾

Resource Groups ▾



Global ▾

Support ▾

AWS Support

Amplify

AppSync

Application Auto Scaling

Application Discovery  
Service

Auto Scaling

Batch

CloudFormation

CloudHSM

CloudTrail

CloudWatch Events

Config

Connect

DMS

Data Lifecycle Manager

Data Pipeline

DataSync

DeepLens

Directory Service

DynamoDB

EC2

EC2 - Fleet

ElastiCache

Elastic Beanstalk

Elastic Container Service

Elastic Transcoder

ElasticLoadBalancing

Glue

Greengrass

GuardDuty

Inspector

IoT

Kinesis

License Manager

Machine Learning

Macie

MediaConvert

OpsWorks

RAM

RDS

Redshift

Rekognition

S3

SWF

SageMaker

Security Hub

Service Catalog

Step Functions

Storage Gateway

Transfer

Trusted Advisor

VPC

WorkLink

## Select your use case

### Lambda

Allows Lambda functions to call AWS services on your behalf.



\* Required

Cancel

-2:06  
Next: Permissions

Feedback



English (US)

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# AWS Management Console

## AWS services

### Find Services

You can enter names, keywords or acronyms.

 Example: Relational Database Service, database, RDS

### ▼ Recently visited services



IAM



S3



AWS DeepLens



Lambda



IoT Core

### ▼ All services



Compute

EC2

Lightsail 

ECR

ECS

EKS



Machine Learning

Amazon SageMaker

Amazon Comprehend

AWS DeepLens

Amazon Lex

Machine Learning

## Access resources on the go



Access the Management Console using the AWS Console Mobile App. [Learn more](#) 

## Explore AWS

### AWS Marketplace

Find, buy, and deploy popular software products that run on AWS. [Learn more](#) 

### Amazon RDS

Set up, operate, and scale your relational database in the cloud. [Learn more](#) 

### Run Serverless Containers with AWS Fargate

AWS Fargate runs and scales your containers without

# AWS Management Console

## AWS services

### Find Services

You can enter names, keywords or acronyms.

 Example: Relational Database Service, database, RDS

### ▼ Recently visited services



IAM



S3



AWS DeepLens



Lambda



IoT Core

### ▼ All services



Compute

EC2

Lightsail 

ECR

ECS

EKS



Machine Learning

Amazon SageMaker

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## Access resources on the go



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Set up, operate, and scale your relational database in the cloud. [Learn more](#) 

### Run Serverless Containers with AWS Fargate

AWS Fargate runs and scales your containers without

## Amazon S3

### Buckets

### Batch operations

### Public access settings for this account

### Feature spotlight

Prevent S3 objects from being deleted for a predefined retention period with S3 Object Lock. [Learn more](#)

[Documentation](#)

## S3 buckets

[Discover the console](#)

All access types

[+ Create bucket](#)
[Edit public access settings](#)
[Empty](#)
[Delete](#)

97 Buckets 6 Regions

<input type="checkbox"/> Bucket name	Access	Region	Date created
<input type="checkbox"/> 645849832089-nk-backfill-inventory		EU (Ireland)	Jan 9, 2019 1:24:05 PM GMT-0800
<input type="checkbox"/> aws-mas-deploy-eu-west-1		EU (Ireland)	Nov 5, 2018 1:43:25 PM GMT-0800
<input type="checkbox"/> aws-mas-deploy-us-east-1		US East (N. Virginia)	Nov 5, 2018 9:09:34 PM GMT-0800
<input type="checkbox"/> aws-mas-deploy-us-east-2		US East (Chic)	Nov 5, 2018 1:42:04 PM GMT-0800
<input type="checkbox"/> aws-mas-deploy-us-west-2		US West (Oregon)	Nov 5, 2018 1:41:11 PM GMT-0800
<input type="checkbox"/> aws-ra		US East (N. Virginia)	Nov 18, 2018 6:20:54 AM GMT-0800
<input type="checkbox"/> aws-workshops-eu-west-1		EU (Ireland)	Nov 12, 2018 1:58:26 AM GMT-0800
<input type="checkbox"/> aws-workshops-us-east-1		US East (N. Virginia)	Nov 11, 2018 4:45:51 PM GMT-0800
<input type="checkbox"/> aws-workshops-us-east-2		US East (Chic)	Nov 12, 2018 1:57:22 AM GMT-0800
<input type="checkbox"/> aws-workshops-us-west-2		US West (Oregon)	Nov 12, 2018 1:57:42 AM GMT-0800
<input type="checkbox"/> awssbomakehelloworld-154358294128-bundesbucket-eyppadk02cwm		US East (N. Virginia)	Nov 30, 2018 4:26:08 AM GMT-0800
<input type="checkbox"/> bplan-wxy		EU (Ireland)	Nov 21, 2018 4:54:19 AM GMT-0800
<input type="checkbox"/> cf-templates-vfgrs7khgun-eu-west-1		EU (Ireland)	Jan 7, 2019 5:13:47 PM GMT-0800
<input type="checkbox"/> cf-templates-vfgrs7khgun-us-east-1		US East (N. Virginia)	Jan 2, 2019 3:19:25 PM GMT-0800
<input type="checkbox"/> dax-lab		US East (N. Virginia)	Jul 25, 2017 12:06:28 AM GMT-0700
<input type="checkbox"/> ddbc		US West (Oregon)	Nov 4, 2018 4:39:33 AM GMT-0700
<input type="checkbox"/> ddbc		US West (Oregon)	Nov 4, 2018 4:39:33 AM GMT-0700

Prevent S3 objects from being deleted

S3 buckets

Search for buckets

+ Create bucket

Bucket name

645849632

aws-mas-d

aws-mas-d

aws-mas-d

aws-mas-d

aws-ria

aws-work

aws-work

aws-work

aws-work

aws-work

awsrobom

bpian-xray

cf-template

cf-template

dax-lab

## Create bucket

1 Name and region

2 Configure options

3 Set permissions

4 Review

### Name and region

#### Bucket name

Enter DNS-compliant bucket name

#### Region

US East (N. Virginia)

#### Copy settings from an existing bucket

Select bucket (options) 97 Buckets

Create

Cancel

Next

Discover the o

Discover the o

All access types

97 Buckets

6 Regions

Date created

Jan 9, 2019 1:24:05 PM GMT-0

Nov 5, 2018 1:43:25 PM GMT-0

Nov 5, 2018 9:09:34 PM GMT-0

Nov 5, 2018 1:42:04 PM GMT-0

Nov 5, 2018 1:41:11 PM GMT-0

Nov 18, 2018 6:20:54 AM GMT-0

Nov 12, 2018 1:58:28 AM GMT-0

Nov 11, 2018 4:45:51 PM GMT-0

Nov 12, 2018 1:57:22 AM GMT-0

Nov 12, 2018 1:57:42 AM GMT-0

Nov 30, 2018 4:26:09 AM GMT-0

Nov 21, 2018 4:54:19 AM GMT-0

Jan 7, 2019 5:13:47 PM GMT-0

Jan 2, 2019 3:19:25 PM GMT-0

Jul 25, 2017 12:06:26 AM GMT-0

Nov 4, 2018 4:30:03 AM GMT-0

Objects can be public

US East (N. Virginia)

Objects can be public

US East (N. Virginia)



# Create bucket



1 Name and region

2 Configure options

3 Set permissions

4 Review

## Name and region

### Bucket name

Enter DNS-compliant bucket name

### Region

US East (N. Virginia)

### Copy settings from an existing bucket

Select bucket (optional) 97 Buckets

Create

Cancel

Next

S3 buckets

Search for bucket

+ Create bucket

Bucket name

645849832

aws-mas-d

aws-mas-d

aws-mas-d

aws-mas-d

aws-ria

aws-works

aws-works

aws-works

aws-works

awsrobom

bplan-xray

cf-template

cf-template

All access types

97 Buckets

Date created

Jan 9, 2019 1:24

Nov 5, 2018 1:4

Nov 5, 2018 9:0

Nov 5, 2018 1:4

Nov 5, 2018 1:4

Nov 18, 2018 6:2

Nov 12, 2018 1:5

Nov 11, 2018 4:3

Nov 12, 2018 1:5

Nov 12, 2018 1:5

Nov 30, 2018 4:2

Nov 21, 2018 4:3

Jan 7, 2019 5:11

Jan 2, 2019 3:10

# Create bucket



1 Name and region

2 Configure options

3 Set permissions

4 Review

## Name and region

### Bucket name

kashif-worker-

Bucket name must not end with dash or period

### Region

US East (N. Virginia)

### Copy settings from an existing bucket

Select bucket (optional) 97 Buckets

Create

Cancel

Next

S3 buckets

Search for buckets

+ Create bucket

Bucket name

645848632

aws-mas-d

aws-mas-d

aws-mas-d

aws-mas-d

aws-ria

aws-works

aws-works

aws-works

aws-works

awsrobom

bplan-xray

cf-template

cf-template

All access types

97 Buckets

Date created

Jan 9, 2019 1:24

Nov 5, 2018 1:4

Nov 5, 2018 9:0

Nov 5, 2018 1:4

Nov 5, 2018 1:4

Nov 18, 2018 6:2

Nov 12, 2018 1:5

Nov 11, 2018 4:3

Nov 12, 2018 1:5

Nov 12, 2018 1:5

Nov 30, 2018 4:2

Nov 21, 2018 4:3

Jan 7, 2019 5:13

Jan 2, 2019 3:10

## Create bucket



1 Name and region

2 Configure options

3 Set permissions

4 Review

## Name and region

## Bucket name ⓘ

kashif-worker-safety

## Region

US East (N. Virginia)

## Copy settings from an existing bucket

Select bucket (optional) 97 Buckets

Create

Cancel

Next

S3 buckets

Q Search for bucket

+ Create bucket

☐ Bucket name☐ 645849832☐ aws-mas-d☐ aws-mas-d☐ aws-mas-d☐ aws-mas-d☐ aws-ria☐ aws-work☐ aws-work☐ aws-work☐ aws-work☐ awsrobom☐ bplan-xray☐ cf-template☐ cf-template

All access types

97 Buckets

Date created ▾

Jan 9, 2019 1:24

Nov 5, 2018 1:4

Nov 5, 2018 9:0

Nov 5, 2018 1:4

Nov 5, 2018 1:4

Nov 18, 2018 6:2

Nov 12, 2018 1:5

Nov 11, 2018 4:3

Nov 12, 2018 1:5

Nov 12, 2018 1:5

Nov 30, 2018 4:3

Nov 21, 2018 4:3

Jan 7, 2019 5:11

Jan 2, 2019 3:10

## Create bucket



1 Name and region

2 Configure options

3 Set permissions

4 Review

## Name and region

## Bucket name ⓘ

kashif-worker-safety

## Region

US East (N. Virginia)

## Copy settings from an existing bucket

Select bucket (optional) 97 Buckets

Create

Cancel

Next

S3 buckets

Q Search for bucket

+ Create bucket

☐ Bucket name☐ 645849832☐ aws-mas-d☐ aws-mas-d☐ aws-mas-d☐ aws-mas-d☐ aws-ria☐ aws-work☐ aws-work☐ aws-work☐ aws-work☐ awsrobom☐ bplan-xray☐ cf-templat☐ cf-templat

All access types

97 Buckets

Date created ▾

Jan 9, 2019 1:24

Nov 5, 2018 1:4

Nov 5, 2018 9:0

Nov 5, 2018 1:4

Nov 5, 2018 1:4

Nov 18, 2018 6:2

Nov 12, 2018 1:5

Nov 11, 2018 4:3

Nov 12, 2018 1:5

Nov 12, 2018 1:5

Nov 30, 2018 4:3

Nov 21, 2018 4:3

Jan 7, 2019 5:11

Jan 2, 2019 3:10

## Create bucket



Name and region



Configure options



Set permissions



Review

## Properties

## Versioning

☐ Keep all versions of an object in the same bucket. [Learn more](#)

## Server access logging

☐ Log requests for access to your bucket. [Learn more](#)

## Tags

You can use tags to track project costs. [Learn more](#)

Key

Value

[+ Add another](#)

## Object-level logging

☐ Record object-level API activity using AWS CloudTrail for an additional cost. See [CloudTrail pricing](#) or [learn more](#)

## Default encryption

☐ Automatically encrypt objects when they are stored in S3. [Learn more](#)

## Advanced settings

## Management

[Previous](#)[Next](#)

## S3 buckets



Search for bucket

[+ Create bucket](#)

Bucket name



645848632



aws-mas-d



aws-mas-d



aws-mas-d



aws-mas-d



aws-ria



aws-work



aws-work



aws-work



aws-work



awsrobom



bplan-xray



cf-template



cf-template

All access types

97 Buckets

Date created

Jan 9, 2019 1:24

Nov 5, 2018 1:4

Nov 5, 2018 9:0

Nov 5, 2018 1:4

Nov 5, 2018 1:4

Nov 18, 2018 6:

Nov 12, 2018 1:

Nov 11, 2018 4:

Nov 12, 2018 1:

Nov 12, 2018 1:

Nov 30, 2018 4:

Nov 21, 2018 4:

Jan 7, 2019 5:1

Jan 2, 2019 3:10



## Create bucket



Name and region



Configure options



Set permissions



Review

Note: You can grant access to specific users after you create the bucket.

### Public access settings for this bucket

Use the Amazon S3 block public access settings to enforce that buckets don't allow public access to data. You can also configure the Amazon S3 block public access settings at the account level. [Learn more](#)

#### Manage public access control lists (ACLs) for this bucket

- ☐ Block new public ACLs and uploading public objects (Recommended)
- ☐ Remove public access granted through public ACLs (Recommended)

#### Manage public bucket policies for this bucket

- ☐ Block new public bucket policies (Recommended)
- ☒ Block public and cross-account access if bucket has public policies (Recommended)

### Manage system permissions

Do not grant Amazon S3 Log Delivery group write access to this bucket

[Previous](#)[Next](#)

## Options

[Edit](#)

Versioning	Disabled
Server access logging	Disabled
Tagging	0 Tags
Object-level logging	Disabled
Default encryption	None
CloudWatch request metrics	Disabled
Object lock	Disabled

## Permissions

[Edit](#)

Block new public ACLs and uploading public objects	False
Remove public access granted through public ACLs	False
Block new public bucket policies	False
Block public and cross-account access if bucket has public policies	False

[Previous](#)

0:21

[Create bucket](#)

Prevent S3 objects

S3 buckets

Search for bucket

Create bucket

Bucket name

6438-4982

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

aws-mas-c

## Create bucket

1 Name and region

2 Configure options

3 Set permissions

4 Review

Note: You can grant access to specific users after you create the bucket.

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- ☒ Block public and cross-account access if bucket has public policies (Recommended)

#### Manage system permissions

Do not grant Amazon S3 Log Delivery group write access to this bucket

Previous

Next

All access types

97 buckets

Date created

Jan 9, 2018 1:24

Nov 5, 2018 1:40

Nov 5, 2018 8:00

Nov 5, 2018 1:40

Nov 5, 2018 1:40

Nov 18, 2018 8:00

Nov 12, 2018 1:40

Nov 11, 2018 8:00

Nov 12, 2018 1:40

Nov 12, 2018 1:40

Nov 30, 2018 4:00

Nov 21, 2018 4:00

Jan 7, 2018 9:00

Jan 2, 2018 2:10



-0:38



Author from scratch [Info](#)

## Name

worker-safety

Delete

ria

worker-safety-inline

bpnl-video-analysis

MediaCoreAnalyzer-

started AWS Lambda runtime or provide your own runtime as part of the function deployment package or Lambda layer after

of your function. Note that new roles may not be available for a few minutes after creation. [Learn more](#) about Lambda execution roles.

## Existing role

You can use an existing role with this function. Lambda must be able to assume this role, and the role must have Amazon CloudWatch Logs permissions.

-2:33

Author from scratch [Info](#)

## Name

## Runtime

You can select a supported AWS Lambda runtime or provide your own runtime as part of the function deployment package or Lambda layer after creating the function.

## Role

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. [Learn more](#) about Lambda execution roles.

## Existing role

You can use an existing role with this function. Lambda must be able to assume this role, and the role must have Amazon CloudWatch Logs permissions.



## kashif-worker-safety-cloud

Throttle

Qualifiers ▼

Actions ▼

Select a test event.. ▼

Test

Save

1:1 Python Spaces: 4 ⚙️

## Environment variables

You can define environment variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. [Learn more.](#)

Key

1

Value

Remove

► Encryption configuration

## Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. [Learn more.](#)

Key

Value

Remove

## kashif-worker-safety-cloud

Throttle

Qualifiers ▾

Actions ▾

Select a test event.. ▾

Test

Save

1:1 Python Spaces: 4 ⚙

## Environment variables

You can define environment variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. [Learn more.](#)

iot\_topic

Value

Remove

Key

Value

Remove

► Encryption configuration

## Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. [Learn more.](#)

Key

Value

Remove



Services

Resource Groups



N. Virginia

Support



# kashif-worker-safety-cloud

Throttle

Qualifiers

Actions

Select a test event

Test

Save



Auto Scaling

## Function code [Info](#)

Code entry type

Upload a .zip file

Runtime

Python 3.7

Handler [Info](#)

lambda\_function.lambda\_handler

Function package

Upload

For files larger than 10 MB, consider uploading using Amazon S3.

## Environment variables

You can define environment variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. [Learn more.](#)

iot\_topic

worker-safety-demo-cloud

Remove

Key

Value

Remove

-1:06



Feedback



English (US)

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Lambda &gt; Functions

## Functions (96)



Actions

Create function

Filter by tags and attributes or search by keyword



&lt;

1

2

3

4

5

6

7

...

10

&gt;



	Function name	Description	Runtime	Code size	Last modified
<input type="radio"/>	kashif-worker-safety-cloud		Python 3.7	7.9 MB	8 minutes ago
<input type="radio"/>	deeplens_admin_model_downloader	This is a DeepLens admin function required for proper functioning of DeepLens Service. DO NOT DELETE	Python 2.7	5.6 MB	2 hours ago
<input type="radio"/>	dr-worker-safety-deeplens	Deploy this lambda to a Greengrass core where it will send a hello world message to a topic	Python 2.7	27.1 kB	2 hours ago
<input type="radio"/>	dr-worker-safety-cloud		Python 3.7	7.9 MB	2 hours ago
<input type="radio"/>	worker-safety-cloud		Python 3.7	7.9 MB	6 hours ago
<input type="radio"/>	modsol-start-job-scheduler		Python 3.7	613 bytes	20 days ago
<input type="radio"/>	modsol-start-get-moderation		Python 3.7	2.1 kB	20 days ago
<input type="radio"/>	modsol-configur...		Python 3.7	2.25B	21 days ago

[Lambda](#) > [Functions](#) > Create function

## Create function

### Author from scratch ☒

Start with a simple "hello world" example.



### Blueprints ☐

Choose a preconfigured template as a starting point for your Lambda function.



### AWS Serverless Application Repository ☐

Find and deploy serverless applications published by AWS, AWS partners, and other developers.



### Author from scratch [Info](#)

#### Name

#### Runtime

You can select a supported AWS Lambda runtime or provide your own runtime as part of the function deployment package or Lambda layer after creating the function.

-2:18





Lambda > Functions > Create function

## Create function

### Author from scratch

Start with a simple "hello world" example.



### Blueprints

Choose a preconfigured template as a starting point for your Lambda function.



### AWS Serverless Application Repository

Find and deploy serverless applications published by AWS, AWS partners, and other developers.



### Blueprints [Info](#)

Export

🔍 Filter by tags and attributes or search by keyword



< 1 2 3 4 5 6 7 ... 11 >

### kinesis-firehose-syslog-to-json

An Amazon Kinesis Firehose stream processor that converts input records from RFC3164 Syslog format to JSON.

### logicmonitor-send-cloudwatch-events

Creates LogicMonitor OpsNotes for CloudWatch Events, thereby enabling correlation between events and performance data.

### splunk-elb-application-access-logs-processor

Stream Application ELB access logs from S3 to Splunk's HTTP event collector

Lambda > Functions > Create function

## Create function

### Author from scratch

Start with a simple "hello world" example.



### Blueprints

Choose a preconfigured template as a starting point for your Lambda function.



### AWS Serverless Application Repository

Find and deploy serverless applications published by AWS, AWS partners, and other developers.



### Blueprints Info

Export

🔍 Filter by tags and attributes or search by keyword



< 1 2 3 4 5 6 7 ... 11 >

Blueprint attributes

Blueprint name

Keyword

Runtime

kinesis

An Amazon

conve

format to JSON.

monitor-send-cloudwatch-eve

LogicMonitor OpsNotes for CloudWatch Events, thereby enabling correlation between events and performance data.

splunk-elb-application-access-logs-processor

Stream Application ELB access logs from S3 to Splunk's HTTP event collector

Basic information [Info](#)

## Name

kashif-worker-safety-deeplens

## Role

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. [Learn more](#) about Lambda execution roles.

Choose an existing role ▼

## Existing role

You can use an existing role with this function. Lambda must be able to assume this role, and the role must have Amazon CloudWatch Logs permissions.

Q deep

- AWSDeepLensLambdaRole
- DeepLensInferenceLambdaRole
- DeepLensSentiment
- drDeepLensInferenceLambdaRole

## Runtime

Python 2.7



Services

Resource Groups



N. Virginia

Support

# kashif-worker-safety-deeplens

Throttle

Qualifiers

Actions

Select a test event...

Test

Save

CloudFront

CloudWatch Events

CloudWatch Logs

CodeCommit

Cognito Sync Trigger

DynamoDB

Kinesis



AWS Key Management Service



AWS Lambda



AWS XRay



Amazon CloudWatch



Amazon CloudWatch Events

## Function code [Info](#)

Code entry type

Edit code inline

Runtime

Python 2.7

Handler [Info](#)

greengrassHelloWorld.function\_hand

Amazon Management Console

Services Resource Groups

# kashif-worker-safety-deeplens

Throttle Qualifiers Actions Select a test event Test Save

Code entry type Runtime Handler

Edit code inline Python 2.7 greengrassHelloWorld.function\_handler

File Edit Find View Goto Tools Window

Environment

- greengrass-common
- greengrass-ipc-python
- greengrassdk
- lcm
- greengrassHelloWorld.py

```
1 #
2 # Copyright 2016-2017 Amazon.com, Inc. or its affiliates. All Rights Reserved.
3 #
4
5 # greengrassHelloWorld.py
6 # Demonstrates a simple publish to a topic using Greengrass core sdk
7 # This lambda function will retrieve underlying platform information and send
8 # a hello world message along with the platform information to the topic "hello/world"
9 # The function will sleep for five seconds, then repeat. Since the function is
10 # long-lived it will run forever when deployed to a Greengrass core. The handler
11 # will NOT be invoked in our example since we are executing an infinite loop.
12
13 import greengrasssdk
14 import platform
15 from threading import Timer
16 import time
17
18
19 # Creating a greengrass core sdk client
20 client = greengrasssdk.client("iot-data")
21
22 # Retrieving platform information to send from Greengrass Core
```

Feedback English (US) © 2016 - 2018, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use





```
2 # *
3 # Copyright 2018 Amazon.com, Inc. or its affiliates. *
4 # All Rights Reserved. *
5 # *
6 #*****
7 """ A sample lambda for object detection"""
8 from threading import Thread, Event
9 import os
10 import json
11 import numpy as np
12 import awscam
13 import cv2
14 import greengrasssdk
15 import time
16 import base64
17 import urllib
18 import zipfile
19 import sys
20 import datetime
21
22 #boto3 is not installed on device by default.
23
24 boto_dir = '/tmp/boto_dir'
25 if not os.path.exists(boto_dir):
26     os.mkdir(boto_dir)
27 urllib.urlretrieve("https://s3.amazonaws.com/dear-demo/boto_3_dist.zip", "/tmp/boto_3_dist.zip")
28 with zipfile.ZipFile("/tmp/boto_3_dist.zip", "r") as zip_ref:
```



# kashif-worker-safety-deeplens

Throttle

Qualifiers

Actions

Select a test event...

Test

Save

Code entry type

Edit code inline

Runtime

Python 2.7

Handler [Info](#)

greengrassHelloWorld.function\_hand

File Edit Find View Goto Tools Window

Environment

- ▼ kashif-worker-safety-deeplens
  - greengrass\_common
  - greengrass\_ipc\_python\_1
  - greengrasssdk
  - license
  - greengrassHelloWorld.py

greengrassHello

```

1 #
2 # Copyright 2018-2017 Amazon.com, Inc. or its affiliates. All Rights Reserved.
3 #
4
5 # greengrassHelloWorld.py
6 # Demonstrates a simple publish to a topic using Greengrass core sdk
7 # This lambda function will retrieve underlying platform information and send
8 # a hello world message along with the platform information to the topic 'hello/world'
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13 import greengrasssdk
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15 from threading import Timer
16 import time
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19 # Creating a greengrass core sdk client
20 client = greengrasssdk.client('iot-data')
21
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```

# kashif-worker-safety-deeplens

Throttle

Qualifiers

Actions

Select a test event..

Test

Save

Code entry type

Edit code inline

Runtime

Python 2.7

Handler [Info](#)

greengrassHelloWorld.function\_hand

File Edit Find View Goto Tools Window

Environment

- ▼ kashif-worker-safety-deeplens
  - greengrass\_common
  - greengrass\_ipc\_python\_1
  - greengrasssdk
  - license
  - greengrassHelloWorld.py

\*greengrassHelloWorld.py

```

27 urllib.urlretrieve("https://s3.amazonaws.com/dear-demo/boto_3_dist.zip", "/tmp/boto_3_dist.zip")
28 with zipfile.ZipFile("/tmp/boto_3_dist.zip", "r") as zip_ref:
29     zip_ref.extractall(boto_dir)
30 sys.path.append(boto_dir)
31
32 import boto3
33
34 bucket_name = "kashif-worker-safety-deeplens"
35
36 # Create an IoT client for sending messages to the cloud.
37 client = greengrasssdk.client('iot-data')
38 iot_topic = '$aws/things/{}/infer'.format(os.environ['AWS_IOT_THING_NAME'])
39
40 class LocalDisplay(Thread):
41     """ Class for facilitating the local display of inference results
42     (as images). The class is designed to run on its own thread. In
43     particular the class dumps the inference results into a FIFO
44     located in the tmp directory (which lambda has access to). The
45     results can be rendered using mplayer by typing:
46     mplayer -demuxer lavf -lavfdopts format=mjpeg:probesize=32 /tmp/results.mjpeg
47     """
48     def __init__(self, resolution):

```



Services

Resource Groups



N. Virginia

Support

# kashif-worker-safety-deeplens

Throttle

Qualifiers

Actions

Select a test event...

Test

Save

## Function code [Info](#)

Code entry type

Edit code inline

Runtime

Python 2.7

Handler [Info](#)

greengrassHelloWorld.function\_hand

File Edit Find View Goto Tools Window



Environment

- ▼ kashif-worker-safety-deeplens
  - greengrass\_common
  - greengrass\_ipc\_python\_3
  - greengrasssdk
  - license
  - greengrassHelloWorld.py

greengrassHello

```

27 urllib.urlretrieve("https://s3.amazonaws.com/dear-demo/boto_3_dist.zip", "/tmp/boto_3_dist.zip")
28 with zipfile.ZipFile("/tmp/boto_3_dist.zip", "r") as zip_ref:
29     zip_ref.extractall(boto_dir)
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44     located in the tmp directory (which lambda has access to). The
    
```

# AWS Management Console

## AWS services

### Find Services

You can enter names, keywords or acronyms.



#### AWS DeepLens

Deep Learning Enabled Video Camera

#### Amazon DocumentDB

Fully-managed MongoDB-compatible database service

#### Application Discovery Service

Discover on-premises application inventory and dependencies

#### Data Pipeline

Orchestration for Data-Driven Workflows

#### DataSync

DataSync simplifies, automates, and accelerates moving data

#### Database Migration Service

Managed Database Migration Service

#### Device Farm

Test Android, iOS, and Web Apps on Real Devices in the Cloud

[Lightsail](#)

[ECR](#)

[ECS](#)

[Amazon Comprehend](#)

[AWS DeepLens](#)

[Amazon Lex](#)

## Access resources on the go



Access the Management Console using the AWS Console Mobile App. [Learn more](#)

## Explore AWS

### Amazon SageMaker

Build, train, and deploy machine learning models. [Learn more](#)

### Run Serverless Containers with AWS Fargate

AWS Fargate runs and scales your containers without having to manage servers or clusters. [Learn more](#)

1:15



### AWS Marketplace



## Projects (13)

Deploy to device

Actions

Create new project

Search projects

&lt; 1 2 &gt; ⌕

	Name ▾	Description ▾	Version ▾	Creation time ▲	Last updated ▾
<input type="radio"/>	dr-worker-safety			2/27/2019, 11:58:49 AM	2/27/2019, 11:58:49 AM
<input type="radio"/>	kashii-worker-safety			2/27/2019, 7:51:15 AM	2/27/2019, 7:51:15 AM
<input type="radio"/>	TTTEst-Object-detection	Detect 20 popular objects		2/26/2019, 4:56:21 PM	2/26/2019, 4:56:21 PM
<input type="radio"/>	dod-worker-safety			2/3/2019, 1:18:45 PM	2/3/2019, 1:18:45 PM
<input type="radio"/>	Worker-Safety-DryRun	Detect 20 popular objects	3	11/13/2018, 12:13:26 PM	11/13/2018, 1:45:15 PM
<input type="radio"/>	worker-safety		7	11/11/2018, 12:27:05 AM	11/11/2018, 5:30:37 PM
<input type="radio"/>	Object-detection-project	Detect 20 popular objects		5/14/2018, 4:55:17 PM	5/14/2018, 4:55:17 PM
<input type="radio"/>	Face-Detection-Security		7	5/11/2018, 5:59:52 AM	5/14/2018, 2:55:37 AM
<input type="radio"/>	Object-detection333	Detect 20 popular objects		4/13/2018, 1:00:52 PM	4/13/2018, 1:00:52 PM
<input type="radio"/>	Face-detection22	Detect all faces in your surroundings		4/5/2018, 3:36:38 PM	4/5/2018, 3:36:38 PM

DeepLens > Projects > Create project

[Share your feedback](#)

Step 1  
Choose project type

## Choose project type

Step 2  
Specify project details

### Project type

Choose an option



Use a project template

Test a preconfigured project to deploy a solution quickly, or customize the templates for your own use.



Create a new blank project

Choose models and functions or create new logic for a custom use case.

### Project templates





[DeepLens](#) > [Projects](#) > Create project[Share your feedback](#)

Step 1

**Choose project type**

Step 2

Specify project details

## Choose project type

### Project type

#### Choose an option

**Use a project template**

Test a preconfigured project to deploy a solution quickly, or customize the templates for your own use.

**Create a new blank project**

Choose models and functions or create new logic for a custom use case.

[Cancel](#)[Next](#)

[DeepLens](#) > [Projects](#) > Create project[Share your feedback](#)

Step 1  
Choose project type

## Choose project type

Step 2  
Specify project details

### Project type

#### Choose an option



#### Use a project template

Test a preconfigured project to deploy a solution quickly, or customize the templates for your own use.



#### Create a new blank project

Choose models and functions or create new logic for a custom use case.

[Cancel](#)[Next](#)

[DeepLens](#) > [Projects](#) > Create project[Share your feedback](#)

Step 1

[Choose project type](#)

Step 2

**Specify project details**

## Specify project details

### Project information

Project name

The project name can contain alphanumeric characters and hyphens. It must be no longer than 100 characters.

Description - Optional

### Project content

A model contains the logic for your project. Lambda functions run instances of the model. Associate a model and at least one Lambda function with your project.

[Add model](#) | [Add function](#)

Step 1

[Choose project type](#)

Step 2

**Specify project details**

## Specify project details

### Project information

Project name

The project name can contain alphanumeric characters and hyphens. It must be no longer than 100 characters.

Description - Optional

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[Add model](#) | [Add function](#)[Cancel](#)[Previous](#)[Create](#)



Step 1  
Choose project type

Step 2  
Specify project details

## Add model



Search models



1



	Name ▾	Model framework ▾	Description ▾	Creation time ▲
<input type="radio"/>	deeplens-squeezenet	MXNet	Squeezenet model	2/4/2018, 7:12:12 PM
<input type="radio"/>	deeplens-hotdog-no-hotdog	MXNet	Model used to identify hot dog vs no hot dog	2/4/2018, 7:12:12 PM
<input type="radio"/>	deeplens-artistic-style-transfer	MXNet	Neural art with pixel augmentation	2/4/2018, 7:12:12 PM
<input type="radio"/>	deeplens-action-recognition	MXNet	SqueezeNet model trained on ImageNet data	2/4/2018, 7:12:12 PM
<input type="radio"/>	deeplens-cat-and-dog-recognition	MXNet	ResNet-18 binary classifier to recognize cats and dogs	2/4/2018, 7:12:12 PM
<input type="radio"/>	deeplens-object-detection	MXNet	SSD architecture with a ResNet-50 feature extractor	2/4/2018, 7:12:12 PM
<input type="radio"/>	deeplens-face-	MXNet	SSD architecture with a ResNet-50	2/4/2018,
Import model			Cancel	Add model

Step 1  
Choose project type

## Specify project details

Step 2  
Specify project details

Project information

### Add model



1



Name

Model  
framework

Description



Creation time

[deeplens-object-  
detection](#)

MXNet

SSD architecture with a ResNet-50  
feature extractor2/4/2018,  
7:12:12 PM

Import model

Cancel

Add model

One Lambda function with your project.

[Add model](#) | [Add function](#)

Cancel

Previous

Create



Step 1

[Choose project type](#)

Step 2

Specify project details

## Specify project details

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The project name can contain alphanumeric characters and hyphens. It must be no longer than 100 characters.

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A model contains the logic for your project. Lambda functions run instances of the model. Associate a model and at least one Lambda function with your project.

▶ Model

deeplens-object-detection

Remove[Add model](#) | [Add function](#)

Step 2  
Specify project details

## Add function



1

2

3

4

5



Name



Description



Version



deeplens-cat-and-dog-recognition

Lambda that publishes labels and probabilities to MQTT

1



kashif-worker-safety-deeplens

Detect person and push frames to S3

1



deeplens-object-detection

Lambda that outputs JPEG bits to a FIFO file on the device and publishes labels and probabilities to MQTT

1



deep-lens-dear-demo

V1

1



worker-safety

Working Version

1



deeplens-artistic-style-transfer

Outputs the JPEG bits to a FIFO file on AWS DeepLens

1



dr-worker-safety-deeplens

1

[Create function in Lambda](#)

Cancel

Add function

Step 2  
Specify project details

## Add function



1

2

3

4

5



Name



Description



Version



deeplens-cat-and-dog-recognition

Lambda that publishes labels and probabilities to MQTT

1



kashif-worker-safety-deeplens

Detect person and push frames to S3

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deeplens-object-detection

Lambda that outputs JPEG bits to a FIFO file on the device and publishes labels and probabilities to MQTT

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deep-lens-dear-demo

V1

1



worker-safety

Working Version

1



deeplens-artistic-style-transfer

Outputs the JPEG bits to a FIFO file on AWS DeepLens

1



dr-worker-safety-deeplens

1

Create function in Lambda



Cancel

Add function

Step 2  
Specify project details

## Add function



1

2

3

4

5



Name



Description



Version



deeplens-cat-and-dog-recognition

Lambda that publishes labels and probabilities to MQTT

1



kashif-worker-safety-deeplens

Detect person and push frames to S3

1



deeplens-object-detection

Lambda that outputs JPEG bits to a FIFO file on the device and publishes labels and probabilities to MQTT

1



deep-lens-dear-demo

V1

1



worker-safety

Working Version

1



deeplens-artistic-style-transfer

Outputs the JPEG bits to a FIFO file on AWS DeepLens

1



dr-worker-safety-deeplens

1

[Create function in Lambda](#)

Cancel

Add function



Services

Resource Groups



N. Virginia

Support

## Project name

The project name can contain alphanumeric characters and hyphens. It must be no longer than 100 characters.

## Description - Optional

## Project content

A model contains the logic for your project. Lambda functions run instances of the model. Associate a model and at least one Lambda function with your project.

▶ Model

deeplens-object-detection

Remove

▶ Function

kashif-worker-safety-deeplens

Remove

[Add model](#) | [Add function](#)

Cancel

Previous

Create



## AWS DeepLens



Project kashif-worker-safety was created successfully

Next, choose the project and click on Deploy to device to deploy the project to the device.



## ▼ Resources

Projects

Devices

Models

## ► Helpful links

DeepLens &gt; Projects

[Share your feedback](#)

## Projects (10)

Deploy to device

Actions ▼

Create new project

&lt; 1 &gt; ⚙

Name ▼

Description ▼

Version ▼

Creation time ▲

Last updated ▼



## AWS DeepLens



Project kashif-worker-safety was created successfully

Next, choose the project and click on Deploy to device to deploy the project to the device.



DeepLens &gt; Projects

[Share your feedback](#)

## Projects (14)

Deploy to device

Actions ▾

Create new project

&lt; 1 2 &gt; ⚙

	Name ▾	Description ▾	Version ▾	Creation time ▲	Last updated ▾
<input type="radio"/>	kashif-worker-safety			2/27/2019, 2:29:19 PM	2/27/2019, 2:29:19 PM
<input type="radio"/>	dr-worker-safety			2/27/2019, 11:58:49 AM	2/27/2019, 11:58:49 AM
<input type="radio"/>	kashii-worker-safety			2/27/2019, 7:51:15 AM	2/27/2019, 7:51:15 AM
<input type="radio"/>	TTTEst-Object-detection	Detect 20 popular objects		2/26/2019, 4:56:21 PM	2/26/2019, 4:56:21 PM
<input type="radio"/>	dod-worker-safety			2/3/2019, 1:18:45 PM	2/3/2019, 1:18:45 PM
<input type="radio"/>	Worker-Safety-DryRun	Detect 20 popular objects	3	11/13/2018, 12:13:26 PM	11/13/2018, 1:45:15 PM



Feedback



English (US)



Step 1

Target device

Step 2

Review and deploy

## Target device

Choose the device you want to deploy your project to.

### Devices (1)

&lt; 1 &gt; ⌕

	Name ▾	Project ▾	Registration status ▾	Device status ▾	Creation time ▲
<input type="radio"/>	optimus-prime	-	Registered	Update available	11/10/2018, 11:33:24 PM

Cancel

Review



-1:00



Step 1

Target device

Step 2

Review and deploy

## Target device

Choose the device you want to deploy your project to.

Devices (1)					
<input type="text" value="Search devices"/>					
< 1 > ⌕					
	Name ▾	Project ▾	Registration status ▾	Device status ▾	Creation time ▲
<input checked="" type="radio"/>	optimus-prime	-	Registered	Update available	11/10/2018, 11:33:24 PM

[Cancel](#)[Review](#)

[DeepLens](#) > [Projects](#) > [kashif-worker-safety](#) > [Deploy project](#)[Share your feedback](#)

Step 1

Target device

Step 2

Review and deploy

## Target device

Choose the device you want to deploy your project to.

### Devices (1)

&lt; 1 &gt; ⌕

Name ▼

Project ▼

Registration  
status ▼

Device status ▼

Creation time ▲

optimus-  
prime

-



Registered

📘 Update  
available11/10/2018, 11:33:24  
PM[Cancel](#)[Review](#)

Step 1

[Target device](#)

Step 2

[Review and deploy](#)

## Review and deploy

### Deployment check

AWS DeepLens will deploy the project below to your device. Choose Deploy to continue.

New project: kashif-worker-safety

Type	Name
Function	kashif-worker-safety-deeplens/versions/1
Model	deeplens-object-detection



#### Deployment will incur costs

AWS DeepLens uses various services to help deploy a project to your device. Costs will be aggregated and itemized for review in AWS Billing.



Step 1  
[Target device](#)

Step 2  
**Review and deploy**

## Review and deploy

### Deployment check

AWS DeepLens will deploy the project below to your device. Choose Deploy to continue.

New project: kashif-worker-safety

Type	Name
Function	kashif-worker-safety-deeplens/versions/1
Model	deeplens-object-detection



#### Deployment will incur costs

AWS DeepLens uses various services to help deploy a project to your device. Costs will be aggregated and itemized for review in AWS Billing.

Step 1

Target device

Step 2

Review and deploy

## Review and deploy

### Deployment check

AWS DeepLens will deploy the project below to your device. Choose Deploy to continue.

New project: kashif-worker-safety

Type	Name
Function	kashif-worker-safety-deeplens/versions/1
Model	deeplens-object-detection



#### Deployment will incur costs

AWS DeepLens uses various services to help deploy a project to your device. Costs will be aggregated and itemized for review in AWS Billing.



Cancel

Previous

-0:29



## AWS DeepLens



## ▼ Resources

Projects

Devices

Models

## ► Helpful links

Deployment of project kashif-worker-safety, version 0 is in progress.  
2/27/2019, 2:36:35 PM: Downloading model:

DeepLens &gt; Devices &gt; optimus-prime

[Share your feedback](#)

Edit

Deregister

## optimus-prime

## Device status

Registration status

Registered

Device status

Deployment in progress

Device version

1.3.25

## Current project

Remove project

Deploy a project

You are now ready to deploy a machine learning project. Choose **Deploy a project** to get started.

## Project output

You can use AWS IoT console to view a JSON-formatted output of the project deployed to your AWS DeepLens device. [Info](#)

To view MQTT messages:



## AWS IoT

### Monitor

## Onboard

Manage

Greengrass

Secure

Defend

Act

### Test

Software

## Settings

Lea n

```
{
  "BoundingBox": {
    "Width": 0.38314348459243774,
    "Height": 0.6968706846237183,
    "Left": 0.2767423987388611,
    "Top": 0.2847670018672943
  },
  "BoundingBoxCoordinates": {
    "x1": 185.97089195251465,
    "y1": 191.36342525482178,
    "x2": 443.4433135986328,
    "y2": 191.36342525482178,
    "x3": 443.4433135986328,
    "y3": 456.1742854118347,
    "x4": 185.97089195251465,
    "y4": 456.1742854118347
  },
  "Confidence": 99.70462799072266
}
1,
"Message": "Person(s): 1\nPerson(s) With Safety Hat: 0\nPerson(s) Without Safety Hat: 1"
}
```

CloudWatch Management Console

https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#dashboards:name=kashif-worker-safety

AWS

Services

Resource Groups

CloudWatch

Dashboards

kashif-worker-safety

Alarms

ALARM 30

INSUFFICIENT 6

OK 94

Billing

Events

Rules

Event Buses

Logs

Insights

Metrics

Alpine

Favorites

Add a dashboard

dashboards

kashif-worker-safety

Add widget

Refresh


Close dashboard

1h 3h 12h 1d 3d 1w custom

Refresh


Add to this dashboard

Select a widget type to configure and add to this dashboard.




Line

Compare metrics over time




Stacked area

Compare the total over time




Number

Instantly see the latest value for a metric



Text

Free text with markdown formatting



Query results

Explore results from Logs Insights

Cancel

Configure

0:52

RWS

## Add metric graph

Untitled graph

1h 3h 12h 1d 3d 1w custom

Line



Count

2.75

1.86

1.37

0

PersonsWithoutSafetyHat PersonsWithSafetyHat

All metrics Graphed metrics (2) Graph options Source

All > string > Metrics with no dimensions Search for any metric, dimension or resource id

Graph search

✓ Metric Name (2)

✓ PersonsWithoutSafetyHat

✓ PersonsWithSafetyHat

2019-02-27 22:40 UTC

1. PersonsWithoutSafetyHat 1.96

2. PersonsWithSafetyHat 0.158

Cancel

Create widget