

FACE DETECTION APP ON AWS Part-3

- PHP Install

```
Activities  Putty SSH Client  Sat Mar 28, 22:00
ec2-user@ip-172-31-15-129:~

Dependencies Resolved

=====
Package          Arch      Version      Repository    Size
=====
Installing:
php              x86_64    5.4.16-46.amzn2.0.2    amzn2-core    1.4 M
Installing for dependencies:
libzip010-compat x86_64    0.10.1-9.amzn2.0.5      amzn2-core     30 k
php-cli         x86_64    5.4.16-46.amzn2.0.2    amzn2-core     2.8 M
php-common      x86_64    5.4.16-46.amzn2.0.2    amzn2-core     563 k
=====
Transaction Summary
=====
Install 1 Package (+3 Dependent packages)

Total download size: 4.7 M
Installed size: 17 M
Is this ok [y/d/N]: y
Downloading packages:
(1/4): libzip010-compat-0.10.1-9.amzn2.0.5.x86_64.rpm | 30 kB 00:00:00
(2/4): php-5.4.16-46.amzn2.0.2.x86_64.rpm | 1.4 MB 00:00:00
(3/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm | 2.8 MB 00:00:00
(4/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm | 563 kB 00:00:00
-----
Total                                     18 MB/s | 4.7 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64    1/4
  Installing : php-common-5.4.16-46.amzn2.0.2.x86_64        2/4
  Installing : php-cli-5.4.16-46.amzn2.0.2.x86_64          3/4
  Installing : php-5.4.16-46.amzn2.0.2.x86_64              4/4
  Verifying   : php-5.4.16-46.amzn2.0.2.x86_64             1/4
  Verifying   : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64  2/4
  Verifying   : php-cli-5.4.16-46.amzn2.0.2.x86_64         3/4
  Verifying   : php-common-5.4.16-46.amzn2.0.2.x86_64      4/4

Installed:
  php.x86_64 0:5.4.16-46.amzn2.0.2

Dependency Installed:
  libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5  php-cli.x86_64 0:5.4.16-46.amzn2.0.2
  php-common.x86_64 0:5.4.16-46.amzn2.0.2

Complete!
[ec2-user@ip-172-31-15-129 ~]$
```

- Composer Install

```
Activities  Putty SSH Client  Sat Mar 28, 22:03
ec2-user@ip-172-31-15-129:~

[ec2-user@ip-172-31-15-129 ~]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
Downloading...

Composer (version 1.10.1) successfully installed to: /home/ec2-user/composer.phar
Use it: php composer.phar

[ec2-user@ip-172-31-15-129 ~]$
```

• AWS-SDK Install

```
Warning: proc_open(): fork failed - Cannot allocate memory in phar:///home/ec2-user/composer.phar/vendor/symfony/console/Application.php on line 952

[ErrorException]
proc_open(): fork failed - Cannot allocate memory

require [--dev] [--prefer-source] [--prefer-dist] [--flavor] [--no-progress] [--no-suggest] [--no-update] [--no-scripts] [--update-no-dev] [--update-with-dependencies] [--update-with-all-dependencies] [--ignore-platform-reqs] [--prefer-stable] [--prefer-lowest] [--sort-packages] [-o] [--optimize-autoloader] [-a] [--classmap-authoritative] [--apcu-autoloader] [--] [<packages>]...

[ec2-user@ip-172-31-15-129 face]$ sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M count=1024
1024+0 records in
1024+0 records out
1073741824 bytes (1.1 GiB) copied, 13.348 s, 80.4 MB/s
[ec2-user@ip-172-31-15-129 face]$ sudo /sbin/mkswap /var/swap.1
mkswap: /var/swap.1: insecure permissions 0644, 0600 suggested.
Setting up swapspace version 1, size = 1024 MiB (1073737728 bytes)
no label, UUID=f4d14c8a-27ae-469f-9836-61275381f87a
[ec2-user@ip-172-31-15-129 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.
[ec2-user@ip-172-31-15-129 face]$ sudo php -d memory_limit=1 ~composer.phar require aws/aws-sdk-php
Using version ^2.8 for aws/aws-sdk-php
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 3 installs, 0 updates, 0 removals
  - Installing symfony/event-dispatcher (v2.8.52): Loading from cache
  - Installing guzzle/guzzle (v3.9.3): Downloading (100%)
  - Installing aws/aws-sdk-php (2.8.31): Downloading (100%)
symfony/event-dispatcher suggests installing symfony/dependency-injection
symfony/event-dispatcher suggests installing symfony/http-kernel
guzzle/guzzle suggests installing guzzlehttp/guzzle (Guzzle 5 has moved to a new package name. The package you have installed, Guzzle 3, is deprecated.)
aws/aws-sdk-php suggests installing doctrine/cache (Adds support for caching of credentials and responses)
aws/aws-sdk-php suggests installing ext-apc (Allows service description opcode caching, request and response caching, and credentials caching)
aws/aws-sdk-php suggests installing monolog/monolog (Adds support for logging HTTP requests and responses)
aws/aws-sdk-php suggests installing symfony/yaml (Eases the ability to write manifest files for creating jobs in AWS Import/Export)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-15-129 face]$
```

• Index.php File

```
1 <?php
2
3 /*
4
5 Install php - sudo yum install php
6 curl -sS https://getcomposer.org/installer | php
7 cd /var/www/html
8 sudo mkdir face
9 cd face
10 sudo php -d memory_limit=1 ~composer.phar require aws/aws-sdk-php
11
12 In case if you get memory error -
13 sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M count=1024
14 sudo /sbin/mkswap /var/swap.1
15 sudo /sbin/swapon /var/swap.1
16
17 sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c85580.jpg
18 sudo mv b97ea33b5842c7894b804923c6c85580.jpg sample.jpg
19
20 */
21 error_reporting(0);
22
23 require_once( __DIR__ . '/vendor/autoload.php');
24
25 use Aws\S3\S3Client;
26 use Aws\Rekognition\RekognitionClient;
27
28
29 $bucket = 'Your Bucket Name';
30 $keyname = 'Your File Name';
31
32 $s3 = S3Client::factory([
33     'profile' => 'default',
34     'region' => 'us-east-2',
35     'version' => '2006-03-01',
36     'signature' => 'v4'
37 ]);
38
39 try {
40     // Upload data.
41     $result = $s3->putObject([
42         'Bucket' => $bucket,
43         'Key' => $keyname,
44         'SourceFile' => __DIR__ . "/" . $keyname,
45         'ACL' => 'public-read'
```

```
Activities | Text Editor | Mon Mar 30, 19:56 | index (2).php | Save | 38 %
~/Downloads/Telegram Desktop

11 In case if you get memory error -
12 sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M count=1024
13 sudo /sbin/mkswap /var/swap.1
14 sudo /sbin/swapoff /var/swap.1
15 sudo /sbin/swapon /var/swap.1
16
17 sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c85580.jpg
18 sudo mv b97ea33b5842c7894b804923c6c85580.jpg sample.jpg
19
20 */
21 error_reporting(0);
22
23 require_once(__DIR__ . '/vendor/autoload.php');
24
25 use Aws\S3\S3Client;
26 use Aws\Rekognition\RekognitionClient;
27
28
29 $bucket = 'Your Bucket Name';
30 $keyname = 'Your File Name';
31
32 $s3 = S3Client::factory([
33     'profile' => 'default',
34     'region' => 'us-east-2',
35     'version' => '2006-03-01',
36     'signature' => 'v4'
37 ]);
38
39 try {
40     // Upload data.
41     $result = $s3->putObject([
42         'Bucket' => $bucket,
43         'Key' => $keyname,
44         'SourceFile' => __DIR__ . "/$keyname",
45         'ACL' => 'public-read'
46     ]);
47
48     // Print the URL to the object.
49     $imageUrl = $result['ObjectURL'];
50     if($imageUrl) {
51         echo "Image upload done... Here is the URL: " . $imageUrl;
52     }
53 } catch (Exception $e) {
54     echo $e->getMessage() . PHP_EOL;
55 }
```

- **Successful Upload of Image**

```
Activities | PuTTY SSH Client | Sat Mar 28, 23:32 | ec2-user@ip-172-31-15-129:var/www/html/face | 42 %

[ec2-user@ip-172-31-15-129 face]$ ls
881213-twitter-6.jpg composer.json composer.lock vendor
[ec2-user@ip-172-31-15-129 face]$ sudo mv 881213-twitter-6.jpg sample.jpg
[ec2-user@ip-172-31-15-129 face]$ ls
composer.json composer.lock sample.jpg vendor
[ec2-user@ip-172-31-15-129 face]$ sudo vln index.php
[ec2-user@ip-172-31-15-129 face]$ sudo php index.php
Error retrieving credentials from the instance profile metadata server. When you
are not running inside of Amazon EC2, you must provide your AWS access key ID a
nd secret access key in the "key" and "secret" options when creating a client or
provide an instantiated Aws\Common\Credentials\CredentialsInterface object. (Cl
ient error response
[status code] 404
[reason phrase] Not Found
[url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-15-129 face]$ sudo vln index1.php
[ec2-user@ip-172-31-15-129 face]$ sudo php index1.php
[ec2-user@ip-172-31-15-129 face]$ sudo vln index2.php
[ec2-user@ip-172-31-15-129 face]$ sudo php index2.php
Error retrieving credentials from the instance profile metadata server. When you
are not running inside of Amazon EC2, you must provide your AWS access key ID a
nd secret access key in the "key" and "secret" options when creating a client or
provide an instantiated Aws\Common\Credentials\CredentialsInterface object. (Cl
ient error response
[status code] 404
[reason phrase] Not Found
[url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-15-129 face]$ sudo php index2.php
Image upload done... Here is the URL: https://blaviken-aws-bucket.s3.ap-south-1.
[ec2-user@ip-172-31-15-129 face]$
```

● Image in Bucket

Amazon S3 > blaviken-aws-bucket

blaviken-aws-bucket

Overview Properties Permissions Management Access points

Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions

Asia Pacific (Mumbai)

Viewing 1 to 2

Name	Last modified	Size	Storage class
index.html	Mar 27, 2020 4:11:02 PM GMT+0530	41.0 B	Standard
sample.jpg	Mar 28, 2020 11:30:06 PM GMT+0530	138.5 KB	Standard

Viewing 1 to 2

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● VPC Dashboard

Launch VPC Wizard Launch EC2 Instances

Note: Your Instances will launch in the Asia Pacific (Mumbai) region.

Resources by Region Refresh Resources

You are using the following Amazon VPC resources

VPCs	Mumbai 1	NAT Gateways	Mumbai 0
Subnets	Mumbai 3	VPC Peering Connections	Mumbai 0
Route Tables	Mumbai 1	Network ACLs	Mumbai 1
Internet Gateways	Mumbai 1	Security Groups	Mumbai 3
Egress-only Internet Gateways	Mumbai 0	Customer Gateways	Mumbai 0
DHCP options sets	Mumbai 1	Virtual Private Gateways	Mumbai 0
Elastic IPs	Mumbai 0	Site-to-Site VPN Connections	Mumbai 0

Service Health

Current Status	Details
Amazon EC2 - Asia Pacific (Mumbai)	Service is operating normally

View complete service health details

Account Attributes

Resource ID length management

Additional Information

VPC Documentation
All VPC Resources
Forums
Report an Issue

Transit Gateway Network Manager

Network Manager enables centrally manage your global network across AWS and on-premises. Learn more

Get started with Network Manager

Site-to-Site VPN Connections

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• Creating new VPC

VPC Dashboard

Filter by VPC:

Your VPCs

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Main Route table	Main Network ACL
	vpc-979481ff	available	172.31.0.0/16	-	dopt-3d4ebe56	rtb-f8a56f93	acl-634eb208

VPC: vpc-979481ff

Description | CIDR Blocks | Flow Logs | Tags

VPC ID	vpc-979481ff	Tenancy	default
State	available	Default VPC	Yes
IPv4 CIDR	172.31.0.0/16	IPv6 CIDR	-
IPv6 Pool	-	DNS resolution	Enabled
Network ACL	acl-634eb208	DNS hostnames	Enabled
DHCP options set	dopt-3d4ebe56	Route table	rtb-f8a56f93
Owner	894248871767		

• Attaching Role

Instances > Attach/Replace IAM Role

Attach/Replace IAM Role

Select an IAM role to attach to your instance. If you don't have any IAM roles, choose Create new IAM role to create a role in the IAM console. If an IAM role is already attached to your instance, the IAM role you choose will replace the existing role.

Instance ID: i-0b5939841b0b81923

IAM role*: [Create new IAM role](#)

* Required

[Cancel](#) [Apply](#)

• Role Summary

The screenshot displays the AWS IAM console interface in a Google Chrome browser. The page title is 'Role Summary' for the 'blaviken_role'. The left sidebar shows the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Roles, Policies, and Access reports. The main content area shows the role's summary, including its ARN, description, instance profile ARNs, path, creation time, last activity, and maximum CLI/API session duration. Below the summary, there are tabs for Permissions, Trust relationships, Tags, Access Advisor, and Revoke sessions. The 'Permissions' tab is active, showing a list of permissions policies (1 policy applied) and a section for attaching policies. The attached policy is 'AmazonS3FullAccess', which is an AWS managed policy. There is also a section for permissions boundary, which is currently not set.

Role Summary

Role ARN: `arn:aws:iam::894248871767:role/blaviken_role`

Role description: Allows EC2 instances to call AWS services on your behalf. [Edit](#)

Instance Profile ARNs: `arn:aws:iam::894248871767:instance-profile/blaviken_role`

Path: `/`

Creation time: 2020-03-28 23:25 UTC+0530

Last activity: Not accessed in the tracking period

Maximum CLI/API session duration: 1 hour [Edit](#)

Permissions | Trust relationships | Tags | Access Advisor | Revoke sessions

▼ Permissions policies (1 policy applied)

[Attach policies](#) [Add inline policy](#)

Policy name	Policy type
AmazonS3FullAccess	AWS managed policy

► Permissions boundary (not set)

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