

Azubi Africa

AWS SAA Project 1

TEAM SUBLIME PROJECT PRESENTATION

Project Sublime Team members

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Sublime-Azubi							
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Popular repositories AA_1_dockerProject Public This is Azubi docker project Public	◆ View as: Public - You are viewing the README and pinned repositories as a public user. You can create a README file visible to anyone.						
 ● PHP ☆ 1 ♀ 1 □ Repositories 	People						
Q Find a repository Type Language Sort New	189000:						
AA_1_dockerProject Public This is Azubi docker project	Top languages PHP HTML 						

Fork this repo at: https://github.com/Sublime-Azubi/AA_1_dockerProject

Task 1.

- Create a static HTML file.
- Create a Dockerfile.
- Build a docker image.
- Run the docker image in a container.
- Push the docker image to docker hub.



Sample of html login script

<?php_?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/water.css@2/out/water.css">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>signup</title>

</head>

<body>

<h1>Azubi Docker Log in </h1>

<label id="name" for="name" name="name">Username</label><input type="text" name="name" placeholder="user name">

</div>

<div:

<div:

<input type="submit" name="submit" value="Submit">
</div>

</form>

</body>

Credits: <u>https://watercss.kognise.dev</u> For CSS styling.

Azubi Docker Log in

Username

user name

password

Submit

Create a Dockerfile and Build image

Created Dockerfile in the root directory using variant that contains a web server.php:<version>-cli - (php:8.0-apache) Docker build command \$ docker build -t php-apache . Run the Docker image \$ docker run -it --rm --name m-apache-app php-apache

I FROM <u>php</u>:8.0-apache COPY . /var/www/html/ WORKDIR /var/www/html/ EXPOSE 80

Push the image to Docker registry

Configure terminal with your docker id.

<u>Command to push docker image</u>

\$ docker image tag rhel-httpd:latest registry-host:5000/myadmin/rhel-httpd:latest

\$ docker image push registry-host:5000/myadmin/rhel-httpd:latest

Pull the image using the below command on the terminal. \$ docker pull chrisjanabi/php-apache

Task 2.

- Create a second HTML file with additional functionalities.
- Create a php file (server-side scripting) to process the inputs when we submit the form.
- Create a Dockerfile.
- Build a docker image & Run the docker image in a container.
- Push the docker image to docker hub and Amazon elastic container registry.
- Create Amazon ECS cluster. Task definition with Fargate launch type.

mirror object to mirro irror_mod.mirror_object peration == "MIRROR_X": irror_mod.use_x = True irror_mod.use_y = False operation == "MIRROR_Y" irror_mod.use_x = False operation == "MIRROR_Y" irror_mod.use_y = True operation == "MIRROR_Z" irror_mod.use_x = False operation == "MIRROR_Z" irror_mod.use_x = False irror_mod.use_x = False irror_mod.use_y = False irror_mod.use_z = True

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mint("please select exacting

OPERATOR CLASSES ----

ontext):
 context.active_object is not

Php login and form validation scripts

	□ …	🕋 signup.php 🗙 🔮 Dockerfile
C:>Users > admin > Desktop > AA_1_dockerProject > signup-valid.php <pre> </pre>		<pre>C:> Users > admin > Desktop > AA_1_dockerProject > signup.php</pre>

Sample of php validation

	🕒 signup	× +			🕒 Azubi si	ignin	×	+		🗅 Azub	oi signin		× +	
\leftarrow	C i	localhost:8000/signup.php		\leftarrow	C	i) localhost:	8000/signu	ıp-valid.php	\leftarrow	C	i local	host:8000/sig	nup-va	alid.php
		Azubi Docl	ker Log in	Welco	me, This is	admin!			Invalio	l usernam	ie or passw	ord		
		Username		Log ou	<u>1t</u>				<u>Log in</u>					
		user name												
		password												
		Submit												
		Admin L	Jsername -	- <mark>joh</mark> r	ndoe	Admin	Passv	vord – <mark>i</mark>	12345					

Pushing Docker image to ECR

Prerequisites for (ECS- Elastic Container Services) & (ECR- Elastic Container Registry)

- ▶ AWS CLI and docker desktop downloaded and installed.
- Configure CLI (aws cli configure provide access ID and keys). Ensure the user has programmatic access and able to execute the necessary tasks in ecr and ecs.
- On Amazon ecr console create image repository.
- ▶ Get the push commands from ecr repository console.

Build, Tag and Push image to registry

- 1. Retrieve an authentication token and authenticate your Docker client to your registry. Use the AWS CLI:
 - aws ecr-public get-login-password --region us-east-1 | docker login --username AWS --password-stdin public.ecr.aws/v2j3g8s3

Note: if you receive an error using the AWS CLI, make sure that you have the latest version of the AWS CLI and Docker installed.

2. Build your Docker image using the following command. For information on building a Docker file from scratch, see the instructions here **2**. You can skip this step if your image has already been built:

🗇 docker build -t php-apache .

3. After the build is completed, tag your image so you can push the image to this repository:

docker tag php-apache:latest public.ecr.aws/v2j3g8s3/php-apache:latest

4. Run the following command to push this image to your newly created AWS repository:

docker push public.ecr.aws/v2j3g8s3/php-apache:latest

Repository name	▲ URI	
php-apache	🗗 public	.ecr.aws/v2j3g8s3/php-apache
sublime_task	🗗 public	.ecr.aws/v2j3g8s3/sublime_task

ECS with Fargate

In order to create and run ECS FARGATE task, you need to complete the following three steps:

- Have a docker repository (for ex. ECR) with an image that you want to run
- Create an ECS cluster and define a task with the image from ECR
- Run a task in the cluster

Click on the ENI to get the Public IP

Q. Search Network interface ID = eni-089749758e3c4fab2 V Name V Name	Clear filters V Subnet ID V VPC ID		< > C BB	× + Not secure 54.81.14.55/sig Free Course – MAS 🚊 Co		
					Azubi Docke	r Log in
Network interface: eni-089749758e3c4fab2	2 =	© ×			password	
Private IPv4 address □ 10.0.070 Public IPv4 address □ 54.81.14.55 Secondary private IPv4 addresses - MAC address □ 0e:49:94:c7:92:eb	Private IPv4 DNS Private IPv4 DNS Private IPv4 DNS Public IPv4 DNS Pc2-54-81-14-55.compute-1.amazonaws.com Association ID IPv4 Prefix Delegation IPv4 Prefix Delegation IPv4 Prefix Delegation	Elastic Fabric Adapter False IPv6 addresses - Elastic IP address owner IPv6 Prefix Delegation -			Submit	

Project Management Tool

GITHUB PROJECT

- Github Project was chosen as best fit for our project
 - ▶ It helps us to tract our progress on each task on our project
 - ▶ It is open sources and free.
 - As part of github tools, it allows us to link our project dashboard to github "push" and "commit" operations

GITHUB PROJECT DASHBORD

Left side image shows our github project tasks in a customizable dashboard Right side image shows our github project tasks in in different iterations and defined in task1 and task 2

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Filter by keyword or by field					March 2023		April 2023 \Xi Filter 📀 Markers 🂲 Sort 宁 Date fields 🕀 Month Today
Todo ① …	In Review 1	In Progress ② … This is actively being worked on	Done [®] This has been completed		Iteration1 1 15 16 17 18 19 20 21 22	••••23 24 25 26 27 28 29 30 3	Iteration12 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 1
	AA_1_dockerProject #17 ···		Q Iteration 1	-	1 • Create branch protection for project repo #6	⊙ Create branch protection for project repo #6 🛞	
work on version 2	Power point Presentation	Create and customize git project dashboard			2 • Create version 1 web app #3	⊙ Create version 1 web app #3 🐠	
		G. Iteration11	AA_1_dockerProject #13 Create a second html with additional functionality (; tteration12)	*	3 • Create php script for login verification #5	 Create php script for login verification #5 	
		AA_1_dockerProject #12			4	⊙ build and push docker file for V1 #7 ⊕	
	C Iteration 1 O AA 1 dockerProject #14	(5 • Create and customize git project dashboard #4	 Create and customize git project dashboard #4 ()) 			
			Create php G Iteration1 2		6 · work on version 2 #9		💿 work on version 2 #9 🧍
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			Create ECS Cluster	4	8 • Create a second html with additional func #13		 Create a second html with additional functionality #13
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					12 O Power point Presentation #17		Power point Presentation #17 ()
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Resources

- Docker Website: <u>https://hub.docker.com/_/php</u>
- Water.CSS: <u>https://watercss.kognise.dev</u>
- Github: <u>https://docs.github.com/en</u>
- Youtube: <u>https://www.youtube.com/</u>
- Whizlabs: <u>https://business.whizlabs.com</u>
- AWS: <u>https://docs.aws.amazon.com</u>



THANK YOU.