

# 1. Creating your own VPC:

The screenshot shows the AWS Management Console interface for VPCs. The left sidebar contains navigation options like 'VPC dashboard', 'Virtual private cloud', 'Security', and 'Network Analysis'. The main content area displays a table of VPCs. The selected VPC, 'vpc-0d51bb6d2c93bf31', is in an 'Available' state. Below the table, the 'Details' tab is active, showing various configuration parameters.

Name	VPC ID	State	IPv4 CIDR	IPv6...	DHCP option set	Main route table	Main network ACL	Tenancy	Default VPC
vpc-eks	vpc-0d51bb6d2c93bf31	Available	10.0.0.0/16	-	dopt-0b952e2330582d4fd	rtb-0423de144bfe45ad3	acl-0cf2866b1af8813a4	Default	Yes

**Details for vpc-0d51bb6d2c93bf31 / vpc-eks:**

- VPC ID: vpc-0d51bb6d2c93bf31
- State: Available
- DHCP option set: dopt-0b952e2330582d4fd
- IPv4 CIDR: 10.0.0.0/16
- Owner ID: 912611140120
- DNS hostnames: Disabled
- DNS resolution: Enabled
- Main route table: rtb-005862bdef8f82de
- Main network ACL: acl-0b859c101d74d7a64
- IPv6 pool: -
- IPv6 CIDR (Network border group): -

# 2. Creating an EKS cluster 2 worker nodes on the public subnet

The screenshot shows the AWS Management Console interface for the 'k8s' EKS cluster. The left sidebar shows 'Amazon Elastic Kubernetes Service' and 'Related services'. The main content area displays the 'Cluster info' and 'Nodes' sections. The 'Compute' tab is active, showing two worker nodes in a 'Ready' state.

**Cluster info:**

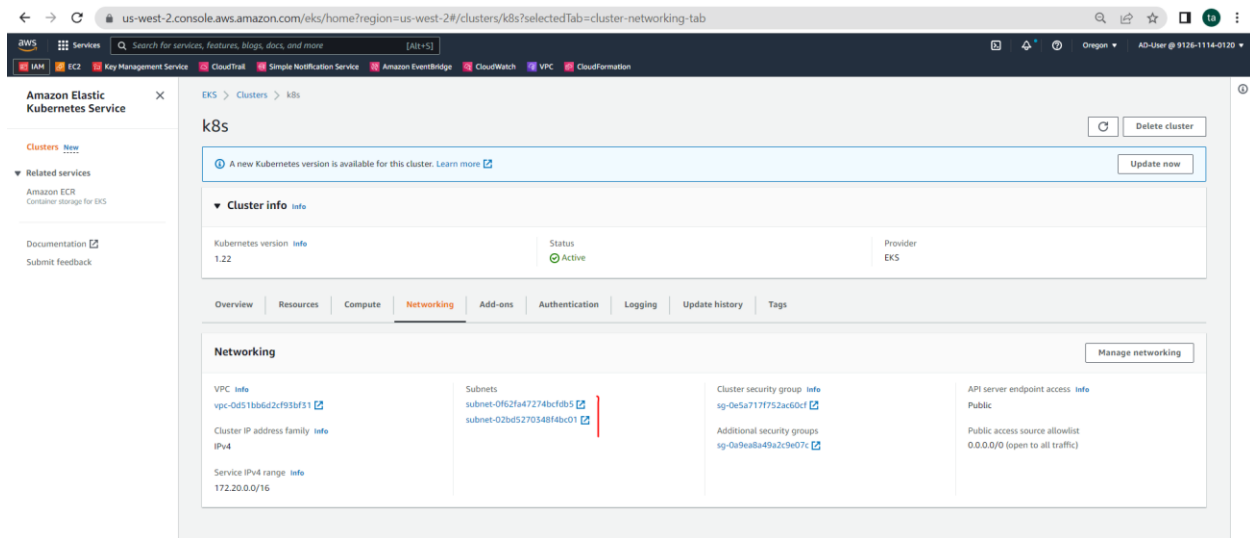
- Kubernetes version: 1.22
- Status: Active
- Provider: EKS

**Nodes (2):**

Node name	Instance type	Node group	Created	Status
ip-10-0-1-81-us-west-2.compute.internal	t2.small	node-worker	Created 3 hours ago	Ready
ip-10-0-2-198-us-west-2.compute.internal	t2.small	node-worker	Created 3 hours ago	Ready

**Node groups (1):**

Group name	Desired size	AMI release version	Launch template	Status
node-worker	2	1.22.12-20220811	-	Active



### 3. Creating chart mysql by Helm:

- Step 1: Add configure context with cluster:

```
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> aws eks --region us-west-2 update-kubeconfig --name k8s
Added new context arn:aws:eks:us-west-2:912611140120:cluster/k8s to C:\Users\DELL\.kube\config
```

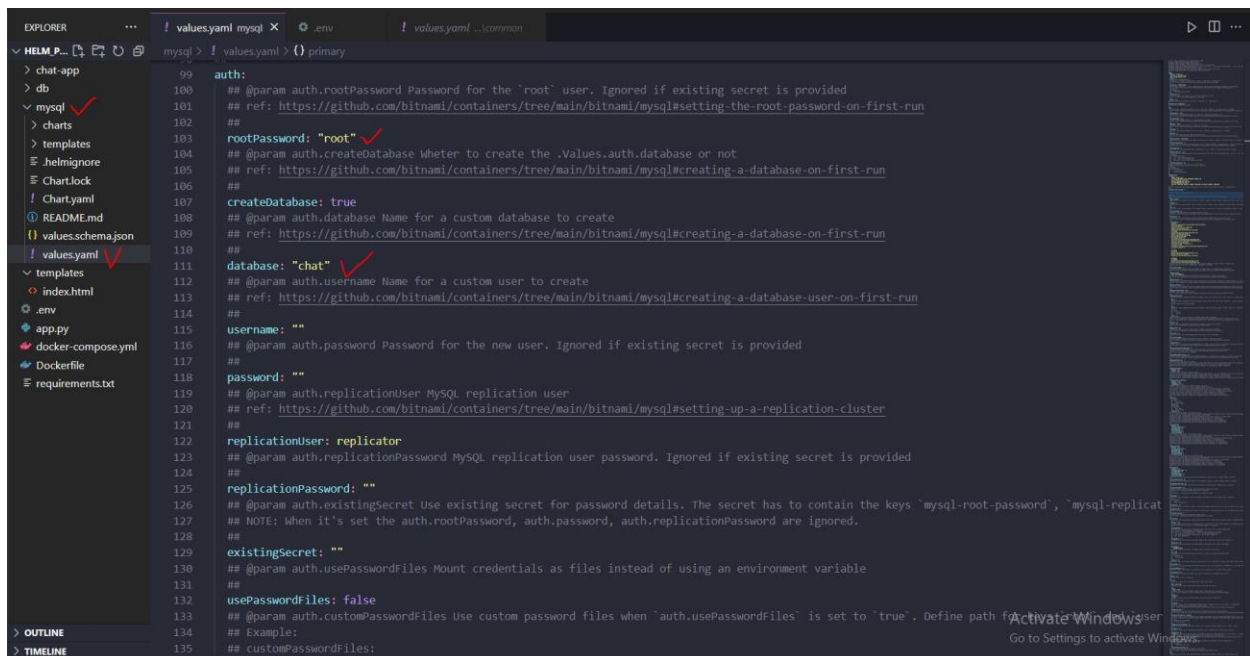
Check get node

```
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> kubectl get node
NAME                                STATUS    ROLES    AGE    VERSION
ip-10-0-1-242.us-west-2.compute.internal Ready    <none>   25m    v1.22.12-eks-ba74326
ip-10-0-2-116.us-west-2.compute.internal Ready    <none>   26m    v1.22.12-eks-ba74326
```

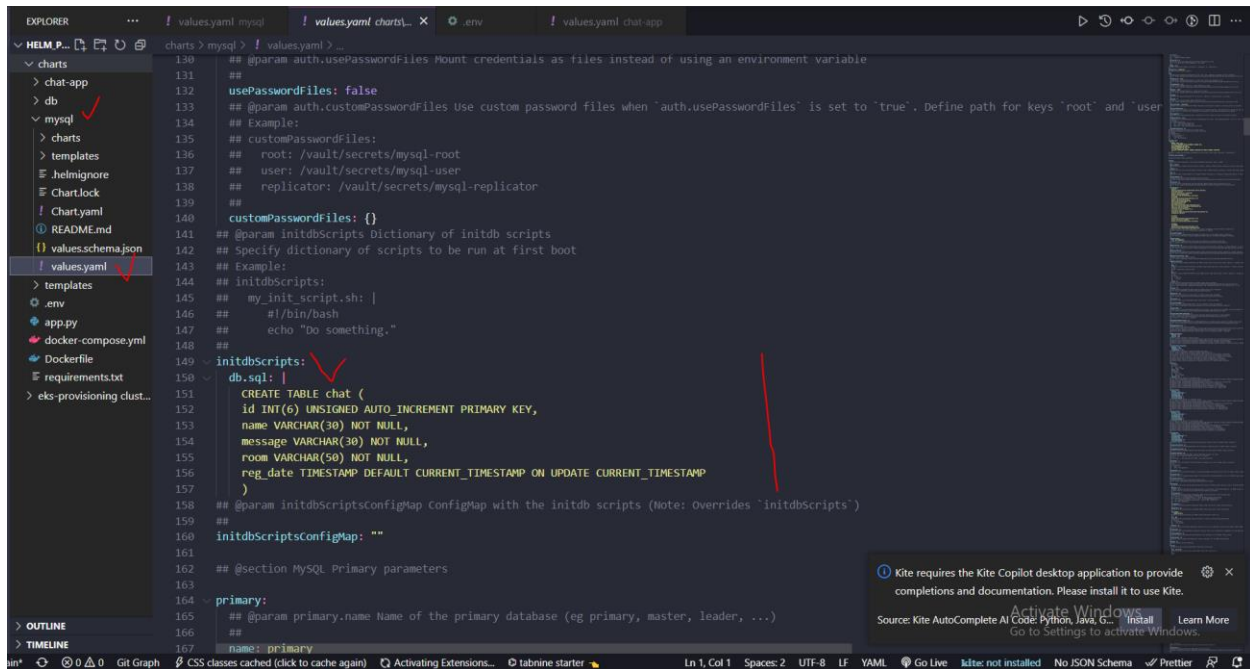
- Step 2: add bitnami repo and pull mysql chart to create mysql

```
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> helm repo add bitnami https://charts.bitnami.com/bitnami
"bitnami" already exists with the same configuration, skipping
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> helm pull bitnami/mysql --untar
```

- Step 3: configure file values.yaml (same with .env file)

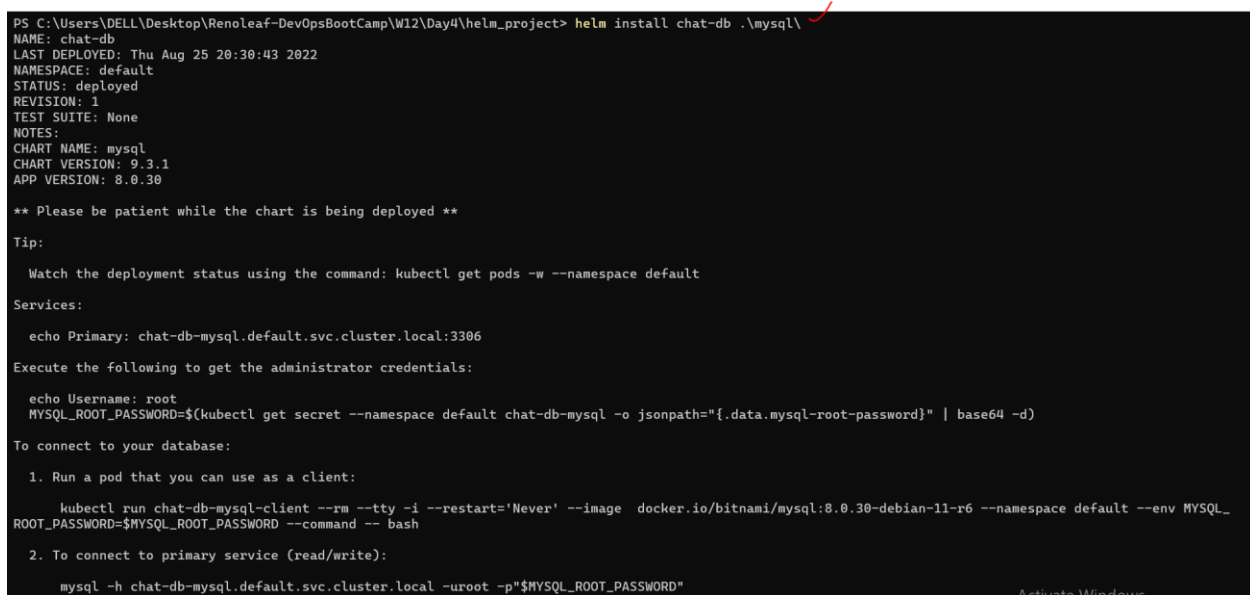


## Configure initscript:



```
130 # @param auth.usePasswordFiles Mount credentials as files instead of using an environment variable
131 ##
132 usePasswordFiles: false
133 # @param auth.customPasswordFiles Use custom password files when 'auth.usePasswordFiles' is set to 'true'. Define path for keys 'root' and 'user'
134 ## Example:
135 ## customPasswordFiles:
136 ##   root: /vault/secrets/mysql-root
137 ##   user: /vault/secrets/mysql-user
138 ##   replicator: /vault/secrets/mysql-replicator
139 ##
140 customPasswordFiles: {}
141 # @param initdbScripts Dictionary of initdb scripts
142 # Specify dictionary of scripts to be run at first boot
143 ## Example:
144 ## initdbScripts:
145 ##   my_init_script.sh: |
146 ##     #!/bin/bash
147 ##     echo "Do something."
148 ##
149 initdbScripts:
150   db.sql: |
151     CREATE TABLE chat (
152       id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
153       name VARCHAR(30) NOT NULL,
154       message VARCHAR(30) NOT NULL,
155       room VARCHAR(50) NOT NULL,
156       reg_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
157     )
158 # @param initdbScriptsConfigMap ConfigMap with the initdb scripts (Note: Overrides 'initdbScripts')
159 ##
160 initdbScriptsConfigMap: ""
161 ##
162 # @section MySQL Primary parameters
163 ##
164 primary:
165   # @param primary.name Name of the primary database (eg primary, master, leader, ...)
166   ##
167   name: primary
```

## - Step 4: Install the chart mysql db by helm



```
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project> helm install chat-db .\mysql\
NAME: chat-db
LAST DEPLOYED: Thu Aug 25 20:30:43 2022
NAMESPACE: default
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
CHART NAME: mysql
CHART VERSION: 9.3.1
APP VERSION: 8.0.30

** Please be patient while the chart is being deployed **

Tip:

  Watch the deployment status using the command: kubectl get pods -w --namespace default

Services:

  echo Primary: chat-db-mysql.default.svc.cluster.local:3306

Execute the following to get the administrator credentials:

  echo Username: root
  MYSQL_ROOT_PASSWORD=$(kubectl get secret --namespace default chat-db-mysql -o jsonpath="{.data.mysql-root-password}" | base64 -d)

To connect to your database:

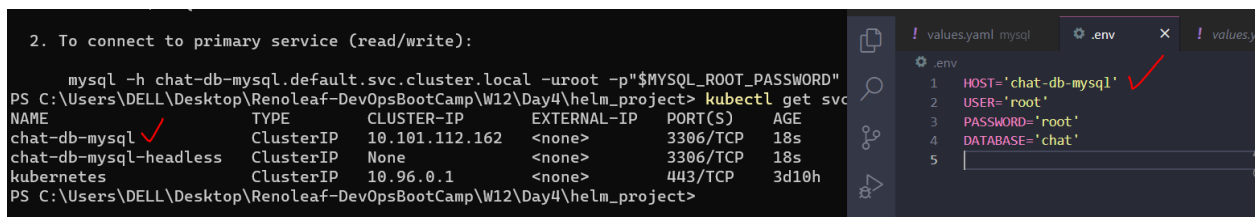
  1. Run a pod that you can use as a client:

    kubectl run chat-db-mysql-client --rm --tty -i --restart='Never' --image docker.io/bitnami/mysql:8.0.30-debian-11-r6 --namespace default --env MYSQL_ROOT_PASSWORD=$MYSQL_ROOT_PASSWORD --command -- bash

  2. To connect to primary service (read/write):

    mysql -h chat-db-mysql.default.svc.cluster.local -uroot -p"$MYSQL_ROOT_PASSWORD"
```

## Get service name, database name (form values.yaml file) and pass to .env file:



```
2. To connect to primary service (read/write):

mysql -h chat-db-mysql.default.svc.cluster.local -uroot -p"$MYSQL_ROOT_PASSWORD"
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project> kubectl get svc
NAME                TYPE        CLUSTER-IP   EXTERNAL-IP  PORT(S)    AGE
chat-db-mysql       ClusterIP   10.101.112.162 <none>       3306/TCP   18s
chat-db-mysql-headless ClusterIP   None         <none>       3306/TCP   18s
kubernetes          ClusterIP   10.96.0.1    <none>       443/TCP    3d10h
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project>
```

```
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project> kubectl get svc
NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
chat-db-mysql                       ClusterIP            172.20.45.22    <none>           3306/TCP         95s
chat-db-mysql-headless              ClusterIP            None            <none>           3306/TCP         95s
kubernetes                          ClusterIP            172.20.0.1      <none>           443/TCP          4h22m
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project> kubectl get pod
NAME                                READY    STATUS    RESTARTS    AGE
chat-db-mysql-0                     1/1     Running  0           101s
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project> |
```

## 4. Packaging ChatApp application into a Docker image.

```
Build an image from a Dockerfile
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project> docker build -t chat-app .
[+] Building 51.5s (11/11) FINISHED
=> [internal] load build definition from Dockerfile                                0.2s
=> => transferring dockerfile: 278B                                              0.1s
=> [internal] load .dockerignore                                                  0.2s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/python:3-alpine                6.9s
=> => resolve docker.io/library/python:3-alpine@sha256:9c46c7f15ee201a2e2dc3579dbc302f989a20b1283e67f884941e071372eb2cc 0.0s
=> sha256:213ec9aee27d8be045c6a92b7eac22c9a64b44558193775a1a7f626352392b49 2.81MB / 2.81MB 1.0s
=> sha256:9c46c7f15ee201a2e2dc3579dbc302f989a20b1283e67f884941e071372eb2cc 1.65kB / 1.65kB 0.0s
=> sha256:5b4e425e03038da758a35dc6f4473b4cf9bbadb9a7cdc2766d5d1d10ef1c9ca9 1.37kB / 1.37kB 0.0s
=> sha256:ce4168535f3061a90d958874507dd3944690aaf1b882123d44e74be6e87eae7f 7.03kB / 7.03kB 0.0s
=> sha256:6b2a141cd2277284ebaafc76d13b42cf8a7682e4663298a2a730f18331a95eb6 681.40kB / 681.40kB 1.3s
=> sha256:a292fad6b52eab6b925b41e777019dceed76ce6965db16c78528bcc05f32691a 12.51MB / 12.51MB 2.8s
=> extracting sha256:213ec9aee27d8be045c6a92b7eac22c9a64b44558193775a1a7f626352392b49 0.3s
=> sha256:4593e4e33a591c85925982423bc77b03d1a8898b4d36780365243fe6e35db60e 231B / 231B 1.6s
=> sha256:9fc487f386544a636bd7edc089e9591a048401d4bd3011b10eeef42b4393771e9 3.04MB / 3.04MB 2.4s
=> extracting sha256:a292fad6b52eab6b925b41e777019dceed76ce6965db16c78528bcc05f32691a 0.7s
=> extracting sha256:9fc487f386544a636bd7edc089e9591a048401d4bd3011b10eeef42b4393771e9 0.3s
=> [internal] load build context                                                0.1s
=> => transferring context: 280.30kB                                           0.0s
=> [2/6] WORKDIR /app                                                         0.2s
=> [3/6] COPY requirements.txt .                                              0.1s
=> [5/6] RUN pip install --upgrade pip && pip install --no-cache-dir -r requirements.txt 13.7s
=> exporting to image                                                         2.5s
=> => exporting layers                                                         2.5s
=> writing image sha256:178a36c9a37de3ae33a4c5db6e8080f3ef275e45a36607c7a1595dbfe8435686 0.0s
=> naming to docker.io/library/chat-app                                       0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

Activate Windows
Go to Settings to activate Windows.
```

## 5. Uploading the Docker image to the container registry ECR.

- step 1: Create chat-app in ECR

The screenshot shows the AWS Management Console for Amazon Elastic Container Registry (ECR). The 'Repositories' tab is selected, showing a list of private repositories. A repository named 'chat-app' has been successfully created. The console displays the repository name, URI, creation date, and various settings like tag immutability, scan frequency, encryption type, and pull-through cache.

Repository name	URI	Created at	Tag immutability	Scan frequency	Encryption type	Pull through cache
chat-app	912611140120.dkr.ecr.us-west-2.amazonaws.com/chat-app	August 25, 2022, 15:12:19 (UTC+07)	Disabled	Manual	AES-256	Inactive

- Step 2: log in to push image

```
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project> aws ecr get-login-password --region us-west-2 | docker login --username AWS --password-stdin 912611140120.dkr.ecr.us-west-2.amazonaws.com
Login Succeeded
```

Push commands for chat-app

macOS / LinuxWindows

Make sure that you have the latest version of the AWS Tools for PowerShell and Docker installed. For more information, see [Getting Started with Amazon ECR](#).

Use the following steps to authenticate and push an image to your repository. For additional registry authentication methods, including the Amazon ECR credential helper, see [Registry Authentication](#).

- Retrieve an authentication token and authenticate your Docker client to your registry.  
Use AWS Tools for PowerShell:  

```
(Get-ECRLoginCommand).Password | docker login --username AWS --password-stdin 912611140120.dkr.ecr.us-west-2.amazonaws.com
```
- Build your Docker image using the following command. For information on building a Docker file from scratch see the instructions [here](#). You can skip this step if your image is already built:  

```
docker build -t chat-app .
```
- After the build completes, tag your image so you can push the image to this repository:  

```
docker tag chat-app:latest 912611140120.dkr.ecr.us-west-2.amazonaws.com/chat-app:latest
```
- Run the following command to push this image to your newly created AWS repository:  

```
docker push 912611140120.dkr.ecr.us-west-2.amazonaws.com/chat-app:latest
```

Close

### - Step 3: Give tag name

```
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> docker tag chat-app:latest 912611140120.dkr.ecr.us-west-2.amazonaws.com/chat-app:latest
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> |
```

### - Step 4: Push image to ECR

#### Log in to push image to ECR

```
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> aws ecr get-login-password --region us-west-2 | docker login --username AWS --password-stdin 912611140120.dkr.ecr.us-west-2.amazonaws.com
Login Succeeded
```

```
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> docker push 912611140120.dkr.ecr.us-west-2.amazonaws.com/chat-app:latest
The push refers to repository [912611140120.dkr.ecr.us-west-2.amazonaws.com/chat-app]
018d8fdbf7df: Pushed
115e7fb7c331: Pushed
947642ac8c57: Pushed
a5549cf365cc: Pushed
9c36786a458c: Pushed
1e59f95130e3: Pushed
e99915b5e7eb: Pushed
81fcfbfaef52: Pushed
bdd2dbc0f630: Pushed
994393dc58e7: Pushed
latest: digest: sha256:ea9ee75539213b9e2d57e92ddae31af683ad208d98703c94bf4119b8599fa616 size: 2415 ✓
```

### - Step 5: Check image in ECR

Amazon Elastic Container Registry

Private registry

Public registry

Repositories

Summary

Images

Permissions

Lifecycle Policy

Tags

Getting started

Documentation

Public gallery

Amazon ECR > Repositories > chat-app

chat-app

View push commands Edit

Images (1)

Find images

Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest	Scan status	Vulnerabilities
latest ✓	Image	August 25, 2022, 19:52:07 (UTC+07)	146.18	Copy URI	sha256:ea9ee75539213b9e2d57e92ddae31af683ad208d98703c94bf4119b8599fa616	-	-

## 6. Creating chart chat-app by Helm:

### - step 1: create chart chat-app

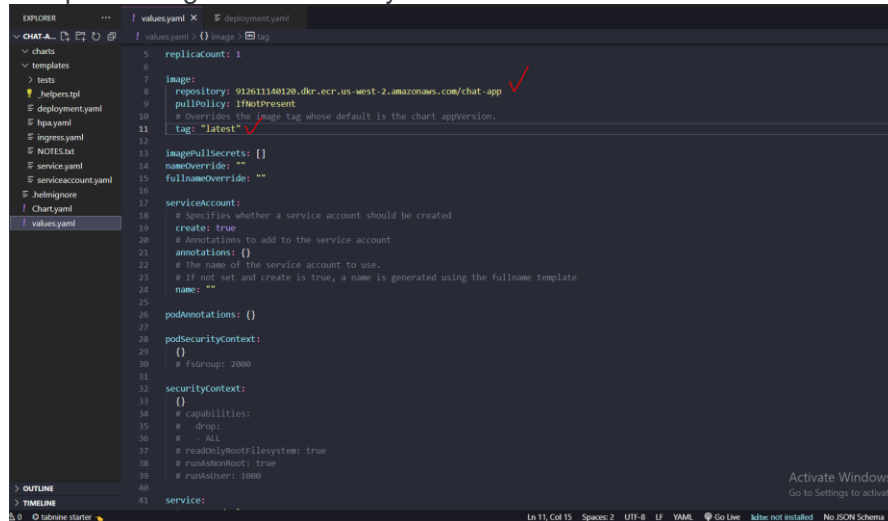
```
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project> helm create chat-app
Creating chat-app
```

```
PS C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project\chat-app> ls

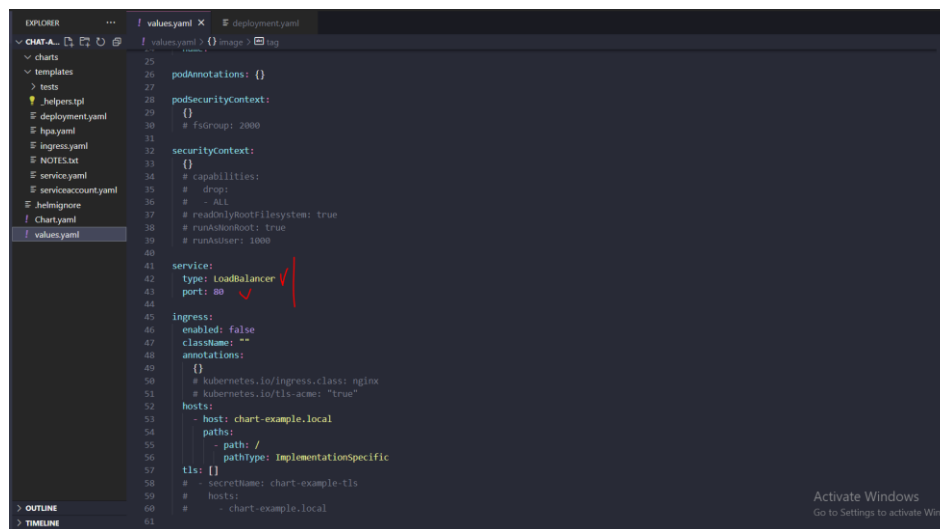
Directory: C:\Users\DELL\Desktop\RenoLeaf-DevOpsBootCamp\W12\Day4\helm_project\chat-app
```

Mode		LastWriteTime	Length	Name
d-----		8/25/2022 4:05 PM		charts
d-----		8/25/2022 4:05 PM		templates
-a----		8/25/2022 4:05 PM	349	.helmignore
-a----		8/25/2022 4:05 PM	1144	Chart.yaml
-a----		8/25/2022 4:07 PM	1942	values.yaml

- step 2: configure file values.yaml



```
5  replicaCount: 1
6
7  image:
8    repository: 912611140120.dkr.ecr.us-west-2.amazonaws.com/chat-app
9    pullPolicy: IfNotPresent
10   # Overrides the image tag whose default is the chart appVersion.
11   tag: "latest"
12
13 imagePullSecrets: []
14 nameOverride: ""
15 fullnameOverride: ""
16
17 serviceAccount:
18   # Specifies whether a service account should be created
19   create: true
20   # Annotations to add to the service account
21   annotations: {}
22   # The name of the service account to use.
23   # If not set and create is true, a name is generated using the fullname template
24   name: ""
25
26 podAnnotations: {}
27
28 podSecurityContext:
29   {}
30   # fsGroup: 2000
31
32 securityContext:
33   {}
34   # capabilities:
35   #   drop:
36   #     - ALL
37   # readOnlyRootFilesystem: true
38   # runAsNonRoot: true
39   # runAsUser: 1000
40
41 service:
42   type: LoadBalancer
```



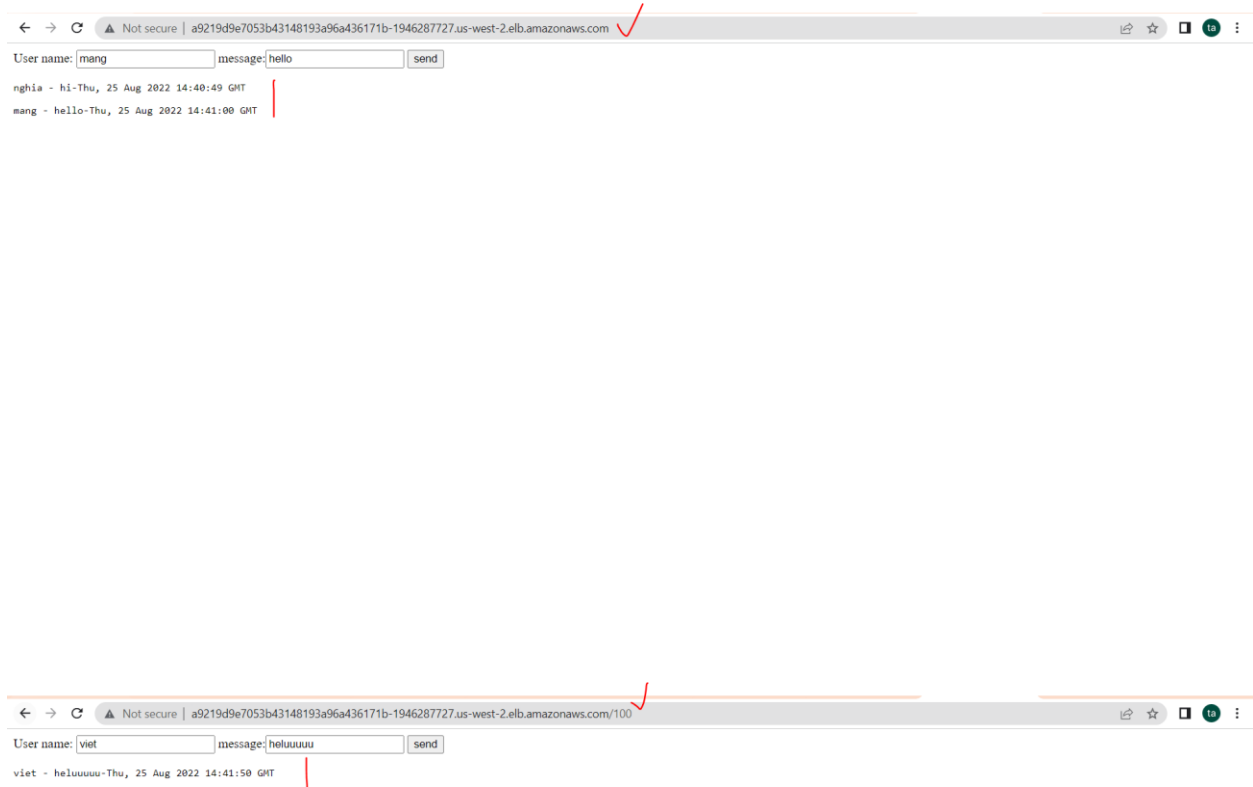
```
25
26 podAnnotations: {}
27
28 podSecurityContext:
29   {}
30   # fsGroup: 2000
31
32 securityContext:
33   {}
34   # capabilities:
35   #   drop:
36   #     - ALL
37   # readOnlyRootFilesystem: true
38   # runAsNonRoot: true
39   # runAsUser: 1000
40
41 service:
42   type: LoadBalancer
43   port: 80
44
45 ingress:
46   enabled: false
47   className: ""
48   annotations: {}
49   # kubernetes.io/ingress.class: nginx
50   # kubernetes.io/tls-acme: "true"
51   hosts:
52     - host: chart-example.local
53       paths:
54         - path: /
55           pathType: ImplementationSpecific
56       tls: []
57   # - secretName: chart-example-tls
58   #   hosts:
59   #     - chart-example.local
```

Configure file deployment.yaml:



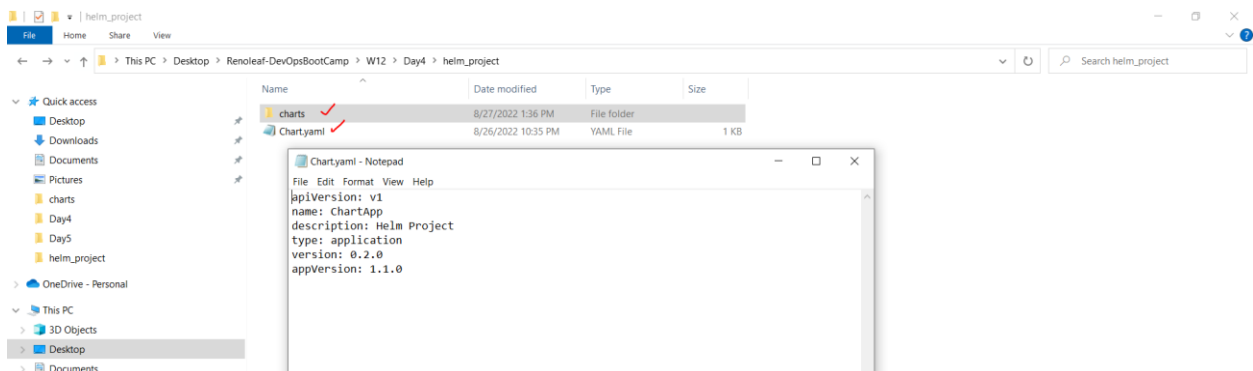


## Result:



- 9. Packaging chart and pushing to the repository

### Step 1:





- Make folder chart and move all the project file to chart folder

- create Chart.yaml with content below:

apiVersion: v1

name: ChartApp

description: Helm Project

type: application

version: 0.2.0

appVersion: 1.1.0

- Step 2: Go to folder chart and then package chart

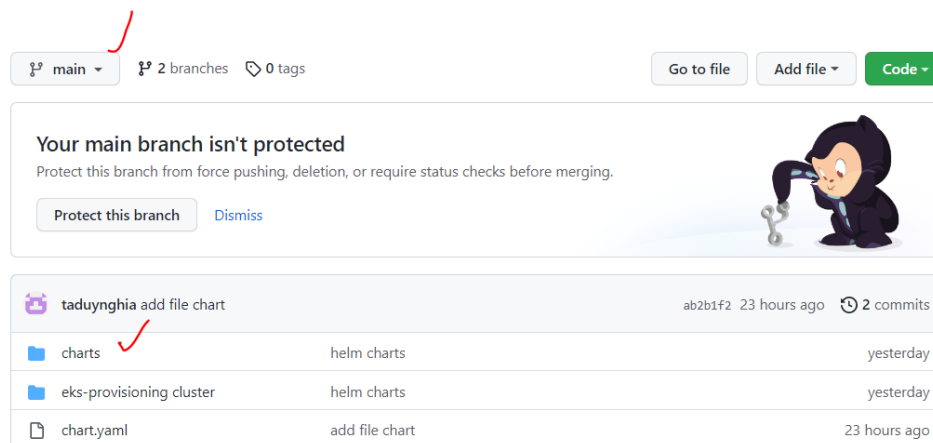
```
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project\charts> helm package .
Successfully packaged chart and saved it to: C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project\charts\ChartApp-0.1.0.tgz
```

- Step 3: create index.yaml file

```
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project> helm repo index charts/
```

- Step 4: Push project to git hub

```
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project\charts> git push -uf origin main
Counting objects: 100% (78/78), done.
Delta compression using up to 8 threads
Total 78 (delta 21), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (21/21), done.
To https://github.com/taduyngghia/helm-chart-chat-app.git
Branch 'main' set up to track remote branch 'main' from 'origin'.
```



Commit	Message	Time
ab2b1f2	taduyngghia add file chart	23 hours ago
	charts	helm charts
	eks-provisioning cluster	helm charts
	chart.yaml	add file chart

- Step 5: Create branch gh\_pages to get url config artifacthub.io

```
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project\charts> git checkout -b gh_pages
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote:      https://github.com/taduyngghia/helm-chart-chat-app/pull/new/gh_pages
remote:
To https://github.com/taduyngghia/helm-chart-chat-app.git
* [new branch]      gh_pages -> gh_pages
Branch 'gh_pages' set up to track remote branch 'gh_pages' from 'origin'.
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project\charts> git add .
PS C:\Users\DELL\Desktop\Renoleaf-DevOpsBootCamp\W12\Day4\helm_project\charts> git branch
* gh_pages
  main
  master
On branch gh_pages
```

The first screenshot shows the repository overview for 'taduyngchia/helm-simple-chat'. It includes a file browser with 'charts' and 'eks-provisioning cluster' folders, a commit history table, and a sidebar with 'About', 'Releases', 'Packages', and 'Environments' sections. Red checkmarks are placed over the 'gh-pages' branch selector and the 'Settings' tab.

The second screenshot shows the 'GitHub Pages' settings page. The left sidebar has 'Pages' selected. The main content area shows the site is live at 'https://taduyngchia.github.io/helm-simple-chat/'. Under 'Build and deployment', the 'gh-pages' branch and root directory are configured. A red checkmark is placed over the 'Save' button. The 'Custom domain' section is empty.

- step 6: config aritfactoryhub.io

artifacthub.io/control-panel/repositories

aws architect Hoc terraform learn.cantrillio Deploying WordPre... How To Setup A Thr... Rancher Docs: Setti... Deploying Django L... Deploying the full L... Create Reusable A... Other bookmarks

ArtifactHUB Search packages

DOCS STATS

Signed in as ngbiadkc09

THEME

- ☒ Automatic
- ☐ Light
- ☐ Dark

★ Starred packages ✓

⚙ Control Panel

🚪 Sign out

REFRESH

## Repositories

If you want your repositories to be labeled as **Verified Publisher**, you can add a [metadata file](#) to each of them including the repository ID provided below. This label will let users know that you own or have control over the repository. The repository metadata file must be located at the path used in the repository URL.

taduyngia/helmchart-chat-app

Helm charts ⓘ

ID: 54dd9623-6dd8-4c51-ae79-7ab03a691554 ⓘ

URL: <https://taduyngia.github.io/helm-chart-chat-app/>

LAST PROCESSED: 5 hours ago ✓ (It will be checked for updates again in ~ 22 minutes)

LAST SECURITY SCAN: Not scanned yet, it will be scanned for security vulnerabilities in ~ 7 minutes

Activate Windows  
Go to Settings to activate Windows.

PROJECT COMMUNITY ABOUT

artifacthub.io/control-panel/repositories

aws architect Hoc terraform learn.cantrillio Deploying WordPre... How To Setup A Thr... Rancher Docs: Setti... Deploying Django L... Deploying the full L... Create Reusable A... Other bookmarks

ArtifactHUB Search packages

DOCS STATS

CONTROL PANEL CONTEXT

ngbiadkc09

REFRESH CLAIM OWNERSHIP ADD

## Repositories

If you want your repositories to be labeled as **Verified Publisher**, you can add a [metadata file](#) to each of them including the repository ID provided below. This label will let users know that you own or have control over the repository. The repository metadata file must be located at the path used in the repository URL.

taduyngia/helmchart-chat-app

Helm charts ⓘ

ID: 54dd9623-6dd8-4c51-ae79-7ab03a691554 ⓘ

URL: <https://taduyngia.github.io/helm-chart-chat-app/>

LAST PROCESSED: 5 hours ago ✓ (It will be checked for updates again in ~ 21 minutes)

LAST SECURITY SCAN: Not scanned yet, it will be scanned for security vulnerabilities in ~ 6 minutes

## Add repository



Kind

Helm charts

Name *(Required)*

project

This name will appear in your packages' urls and **cannot be updated** once is saved.

Display name

helm-chart

Url *(Required)*

https://taduyngghia.github.io/helm-simple-chat/

For more information about the url format and the repository structure, please see the [Helm charts repositories](#) section in the [repositories guide](#).

+ ADD

artifacthub.io/control-panel/repositories

ArtifactHUB Search packages

DOCS STATS

Repositories Organizations Settings

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