

KUBERNETES

Deployment.html

apiVersion:

apps/v1 kind:

Deployment

metadata:

name: flask-app

spec:

replicas:

3 selector:

matchLabels:

app: flask-

app

template:

metadata

labels:

app: flask-app

spec:

containers:

- name: webpage

image:

Assignment/flask

imagePullPolicy: Never

ports:

- containerPort:

5000 protocol: TCP

service.yaml

```
apiVersion: v1
kind: Service
metadata:
  name: flask-app-
servicespec:
  type:
    ClusterIP
  ports:
    - port:
      5000
  selector:
    app: flask-app
```

base.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title> FlaskApp</title>
```

```
<style>
    .message {
        padding:
        10px;margin:
        5px;
        background-color: #656362
    }
    h1{
        color: #1d78cd;

    }
    nav a {
        color: #1d78cd;
        font-size: 25px;
        margin-left:
        50px;
        text-decoration: none;
        text-transform: uppercase;
    }

    .alert {
        padding: 20px;
        margin: 5px;
        color:
        #977c30;
        background-color: #dda1ae;
    }
    .button {
background-color:#977c30; /* red
*/border: none;
color: white;
padding: 16px
32px;text-align:
center;
```

```
text-decoration:
none;display: inline-
block; font-size:
16px; margin: 4px
2px;
transition-duration:
0.4s;cursor: pointer;
}
```

```
.button1 {
background-color:
white;color: black;
border-radius: 10px;
border: 2px solid
#036523;
}
```

```
.button1:hover {
background-color:
#00971e;color: rgb(47, 41,
51);
}
```

```
input[type=text],textarea
{width: 50%;
padding: 12px
20px;margin: 8px
0;
box-sizing: border-
box;border: 2px solid;
border-radius: 4px;
}
```

```
</style>
</head>
```

```

<body>
  <nav>
    <a href="#">Home</a>
    <a href="{{ url_for('index') }}">FlaskApp</a>
    <a href="{{ url_for('create') }}">Create</a>

  </nav>
  <hr>
  <div class="content">
    {% for message in get_flashed_messages() %}
      <div class="alert">{{ message }}</div>
    {% endfor %}
    {% block content %} {% endblock %}
  </div>

</body>
</html>

```

create.html

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title> FlaskApp</title>
  <style>
    .message {
      padding:
        10px;margin:
        5px;
      background-color: #656362
    }
  </style>

```

```
}  
h1{  
    color: #1d78cd;  
  
}  
nav a {  
    color: #1d78cd;  
    font-size: 25px;  
    margin-left:  
    50px;  
    text-decoration: none;  
    text-transform: uppercase;  
}  
  
.alert {  
    padding: 20px;  
    margin: 5px;  
    color:  
    #977c30;  
    background-color: #dda1ae;  
}  
.button {  
background-color:#977c30; /* red  
*/border: none;  
color: white;  
padding: 16px  
32px;text-align:  
center;  
text-decoration:  
none;display: inline-  
block; font-size:  
16px; margin: 4px  
2px;  
transition-duration: 0.4s;
```

```
    cursor: pointer;
}
```

```
.button1 {
    background-color:
    white;color: black;
    border-radius: 10px;
    border: 2px solid
    #036523;
}
```

```
.button1:hover {
    background-color:
    #00971e;color: rgb(47, 41,
    51);
}
```

```
input[type=text],textarea
    {width: 50%;
    padding: 12px
    20px;margin: 8px
    0;
    box-sizing: border-
    box;border: 2px solid;
    border-radius: 4px;
}
```

```
    </style>
</head>
<body>
    <nav>
        <a href="#">Home</a>
        <a href="{{ url_for('index') }}">FlaskApp</a>
        <a href="{{ url_for('create') }}">Create</a>
```

```

</nav>
<hr>
<div class="content">
    {% for message in get_flashed_messages() %}
        <div class="alert">{{ message }}</div>
    {% endfor %}
    {% block content %} {% endblock %}
</div>

</body>
</html>

```

index.html

```

{% extends 'base.html' %}

{% block content %}
    <h1 style="text-align: center;">WELCOME!</h1>
    <h1> {% block title %} <span style="color: rgb(29, 11, 166);">WRITE
YOUR MESSAGES</span> {% endblock %}</h1>
    {% for message in messages %}
        <div class='message'>
            <h3><span style="color: rgb(255, 255, 255);">TITLE : </span>
{{ message['title'] }}</h3>
            <p><span style="color: rgb(255, 255, 255);">MESSAGE :
</span>{{ message['content'] }}</p>
        </div>
    {% endfor %}
{% endblock %}

```



```
PS C:\Windows\system32> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Windows\system32>
```

Dockerfile

FROM python:3.10-

busterWORKDIR

/app

COPY . .

RUN pip install --no-cache-dir -r

requirements.txt CMD ["ibm_db2", "--

bind", "0.0.0.0:5000", "app:app"]

