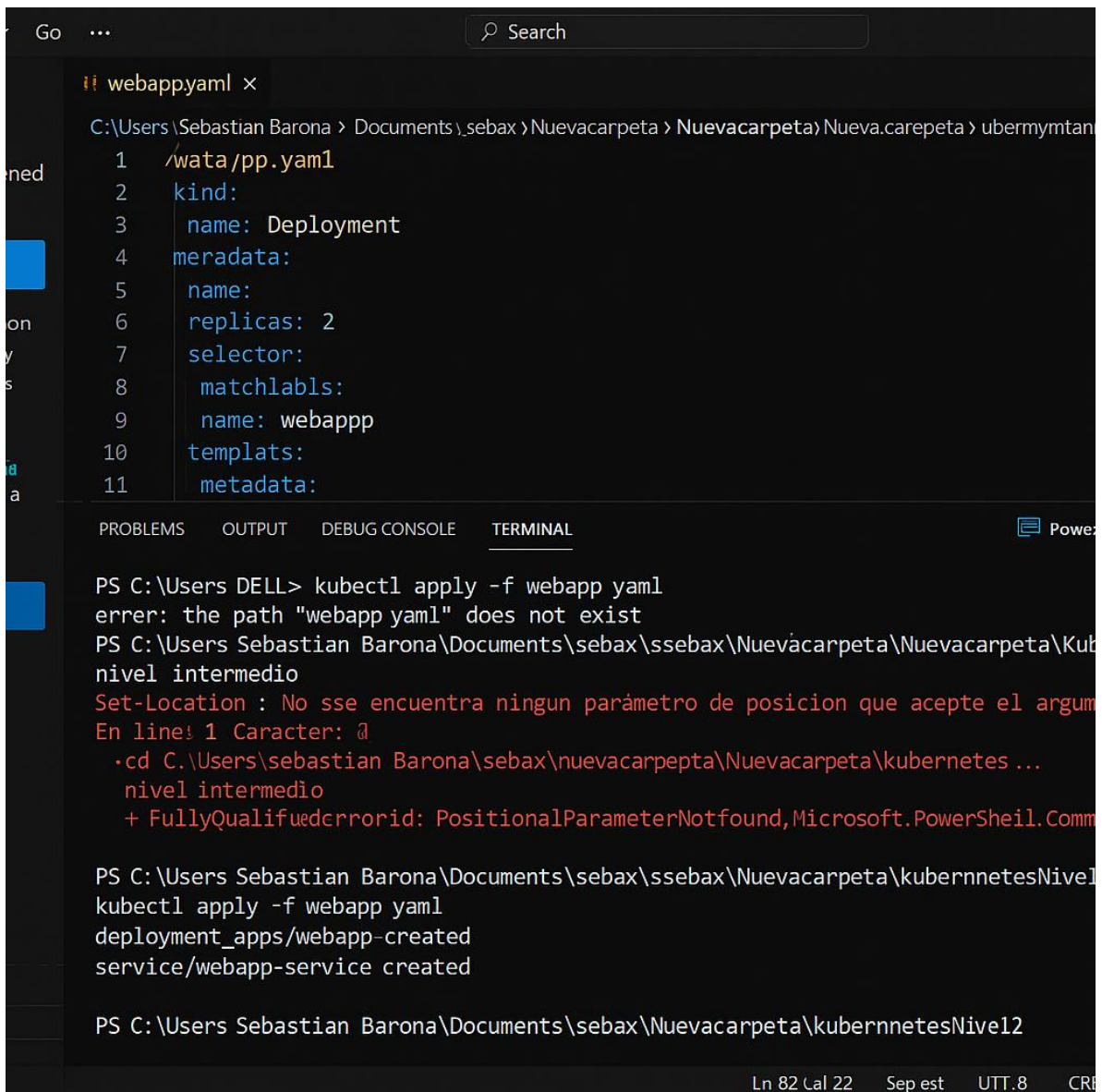


CODELAB KUBERNETES 2



The image shows a Visual Studio Code editor window with a file named `webapp.yaml` open. The file path is `C:\Users\Sebastian Barona\Documents\sebox\Nuevacarpeta\Nuevacarpeta\Nueva.carepeta\ubermymtan`. The YAML content is as follows:

```
1 /wata/pp.yaml
2 kind:
3   name: Deployment
4 metadata:
5   name:
6   replicas: 2
7 selector:
8   matchlabels:
9     name: webapp
10 templats:
11 metadata:
```

Below the editor, the **TERMINAL** tab is active, showing the following commands and output:

```
PS C:\Users DELL> kubectl apply -f webapp.yaml
error: the path "webapp.yaml" does not exist
PS C:\Users Sebastian Barona\Documents\sebox\ssebox\Nuevacarpeta\Nuevacarpeta\Kub
nivel intermedio
Set-Location : No se encuentra ningun parámetro de posición que acepte el argum
En línea 1 Caracter: 1
+ cd C:\Users\sebastian Barona\sebox\nuevacarpepta\Nuevacarpeta\kubernetes ...
+ FullyQualifiedErrorId: PositionalParameterNotFound,Microsoft.PowerShell.Comm

PS C:\Users Sebastian Barona\Documents\sebox\ssebox\Nuevacarpeta\kubernnetesNive1
kubectl apply -f webapp.yaml
deployment.apps/webapp-created
service/webapp-service created

PS C:\Users Sebastian Barona\Documents\sebox\Nuevacarpeta\kubernnetesNive12
```

The status bar at the bottom indicates the current line is 82, column 22, on September 22nd, 2022, at 8:00 AM UTC.

The screenshot shows a Visual Studio Code editor window with a file named `webapp.yaml` open. The file contains a Kubernetes deployment manifest for a service named `webapp`. The manifest specifies 2 replicas and a selector matching the label `app: webapp`. The template includes a container named `webapp`. Below the editor, the terminal shows the output of several `kubectl` commands:

```
PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deploy   3/3     3             3           37m
webapp         2/2     2             2           2m1s

PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deploy-c9d9f6c6c-4ksp7        1/1     Running   0          22m
nginx-deploy-c9d9f6c6c-cfr86        1/1     Running   0          37m
nginx-deploy-c9d9f6c6c-x7dxb        1/1     Running   0          22m
webapp-869b646d9f-2bb5t             1/1     Running   0          2m1s
webapp-869b646d9f-n4jbt             1/1     Running   0          2m1s

PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> kubectl get services
NAME          TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)          AGE
kubernetes    ClusterIP   10.96.0.1        <none>         443/TCP           42m
nginx-deploy   NodePort    10.107.128.132   <none>         80:31766/TCP     30m
webapp-service NodePort    10.96.124.168    <none>         80:30080/TCP     2m1s

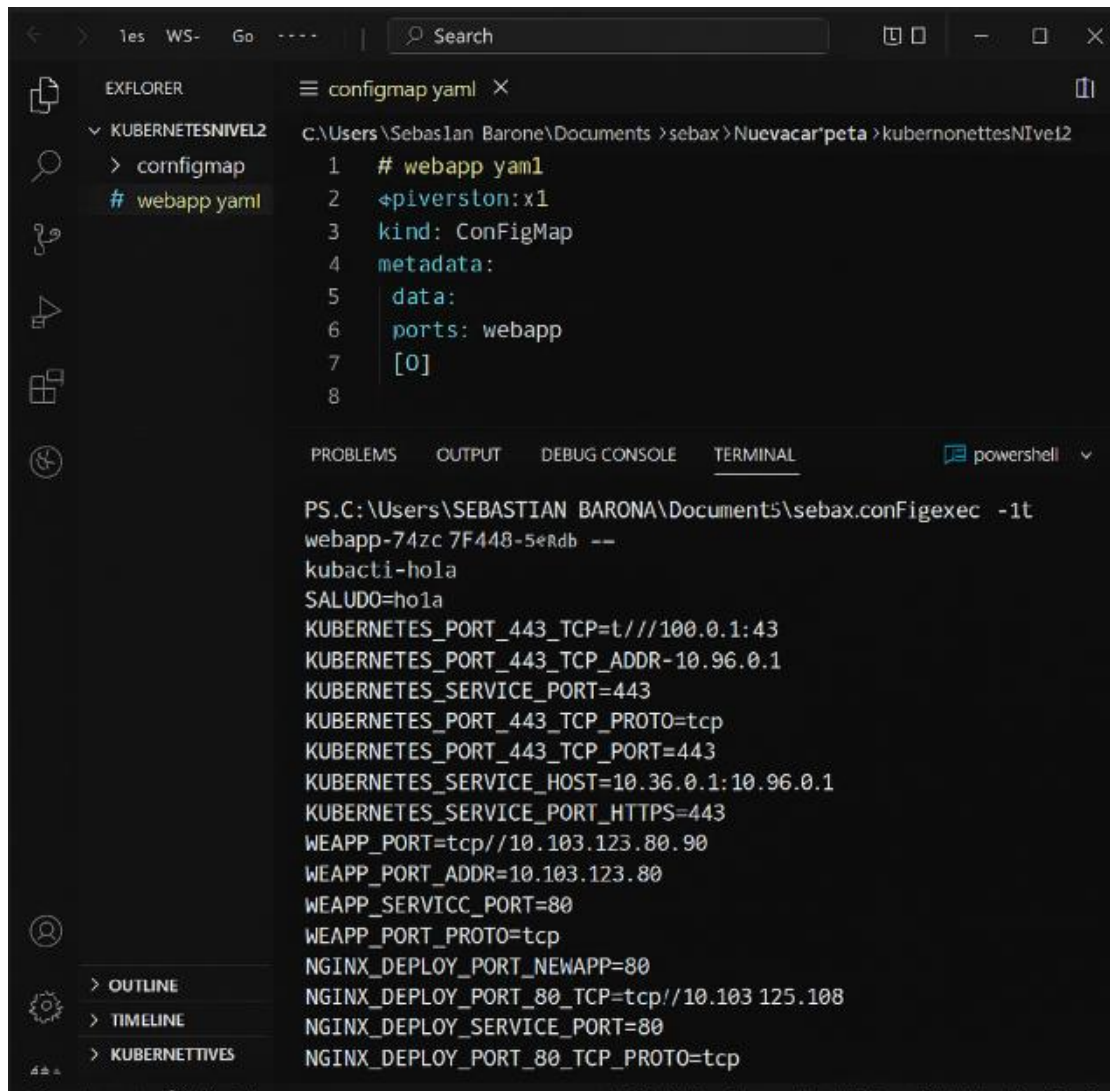
PS C:\Users\DELL\Documents\Jesus\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> []
```

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.



The screenshot shows the Visual Studio Code interface with the 'KUBERNETESNIVEL2' workspace. The Explorer sidebar on the left lists files: `configmap.yaml`, `secret.yaml`, and `webapp.yaml`. The main editor displays the `webapp.yaml` file, which defines a Deployment for a web application using the `nginx` image. The terminal window at the bottom shows the following commands and output:

```
PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> kubectl exec -it webapp-bb84b9f6b-xc88z -- printenv PASSWORD
Error from server (NotFound): pods "webapp-bb84b9f6b-xc88z" not found
PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> kubectl exec -it webapp-dfd6c6b97-ch72 -- printenv PASSWORD
secure123
PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2>
```

The terminal also displays a table of pod status:

NAME	READY	STATUS	RESTARTS	AGE
nginx-deploy-c9d9f6c6c-4ksp7	1/1	Running	0	65m
nginx-deploy-c9d9f6c6c-cfr86	1/1	Running	0	80m
nginx-deploy-c9d9f6c6c-x7dzb	1/1	Running	0	65m
webapp-64894bf98b-bmpfg	0/1	Terminating	0	1s
webapp-bb84b9f6b-th5dm	1/1	Running	0	116s
webapp-bb84b9f6b-xc88z	1/1	Running	0	112s
webapp-dfd6c6b97-ch72	0/1	Pending	0	0s

The terminal window shows the following commands and output:

```
configmap/html-config created
PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> kubectl apply -f webapp-volumen.yaml
deployment.apps/webapp-volumen created
PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> kubectl expose deployment webapp-volumen --type=NodePort --port=80 --name=webapp-volumen-service
service/webapp-volumen-service exposed
PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2> kubectl get services
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	91m
nginx-deploy	NodePort	10.107.128.132	<none>	80:31766/TCP	79m
webapp-service	NodePort	10.96.124.168	<none>	80:30088/TCP	51m
webapp-volumen-service	NodePort	10.108.210.128	<none>	80:31631/TCP	10s

```
PS C:\Users\DELL\Documents\seba\Vuevacarpeta\Vuevacarpeta\kubernetesNivel2>
```

localhost:31631

¡Hola desde un volumen en Kubernetes!