Step 1: Clone the Repository

git clone https://github.com/ndeepakprasanth/dapr-eks-pubsub-ready.git

cd dapr-eks-pubsub-ready

Step 2: Set execute permissions

chmod +x oneclick.sh

chmod +x test.sh

chmod +x scripts/*.sh

Step 3: One-Click deployment

Replace with your AWS Account ID

ACCOUNT_ID=<Enter_Your_AWS_ACCOUNT_ID>

AWS_PROFILE=<Enter_Your_AWS_Profile> ./oneclick.sh

Step 4: Verify deployment

Check pods (should show 2/2 Ready)

kubectl -n dapr-apps get pods -o wide

Check services

kubectl -n dapr-apps get svc

Check Dapr components

kubectl -n dapr-apps get components

Step 5: Test Pub/Sub functionality

./test.sh

Step 6: View ECR repositories

aws ecr describe-repositories --region us-east-1

Step 7: Clean up when completed

./destroy.sh

1. Running pods:

```
423946@AMBGB000622 dapr-eks-pubsub-ready % kubectl -n dapr-apps get pods -o wide
NAME                              READY   STATUS    RESTARTS   AGE     IP              NODE                                NOMINATED NODE   READINESS GATES
orderservice-874558c9b-q88hz      2/2     Running   0          4m41s   192.168.47.173  ip-192-168-36-44.ec2.internal   <none>           <none>
productservice-787cc7d9c7-8ztmz   2/2     Running   0          4m41s   192.168.26.113  ip-192-168-13-87.ec2.internal   <none>           <none>
423946@AMBGB000622 dapr-eks-pubsub-ready %
```

2. Services:

```
423946@AMBGB000622 dapr-eks-pubsub-ready % kubectl -n dapr-apps get svc
NAME                 TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)                                  AGE
orderservice         ClusterIP   10.100.48.232    <none>        8090/TCP                                 48m
orderservice-dapr    ClusterIP   None             <none>        80/TCP,50001/TCP,50002/TCP,9090/TCP      48m
productservice       ClusterIP   10.100.230.157   <none>        8080/TCP                                 48m
productservice-dapr  ClusterIP   None             <none>        80/TCP,50001/TCP,50002/TCP,9090/TCP      48m
```

3. Dapr compoents

```
423946@AMBGB000622 dapr-eks-pubsub-ready % kubectl -n dapr-apps get components
NAME            AGE
snssqs-pubsub   6m15s
```

4. Test Pub/Sub

```
423946@AMBGB000622 dapr-eks-pubsub-ready % ./test.sh | tee FinalOutput.rtf
==> Testing Dapr pub/sub functionality
Publishing test message...
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   132  100    76  100    56   1291    951 --:--:-- --:--:-- --:--:--  2275
{"ok":true,"published":{"orderId":999,"item":"test-laptop","price":1299.99}}pod "test-curl" deleted
==> Verifying delivery in OrderService logs...
Defaulted container "orderservice" out of: orderservice, daprd
Delivery OK: OrderService received the event.

==> OrderService logs:
Defaulted container "orderservice" out of: orderservice, daprd
OrderService listening on 8090
OrderService received event: {"data":{"item":"test-laptop","orderId":999,"price":1299.99},"datacontentt
ype":"application/json","id":"a220ce1f-f09a-423a-bd44-ec1f9f8e9392","pubsubname":"snssqs-pubsub","sourc
e":"productservice","specversion":"1.0","time":"2025-12-23T14:30:25Z","topic":"orders","traceid":"","tr
aceparent":"","tracestate":"","type":"com.dapr.event.sent"}
OrderService received event: {"data":{"item":"test-laptop","orderId":999,"price":1299.99},"datacontentt
ype":"application/json","id":"9140340d-80ee-4d5f-83d5-c90d80a328ad","pubsubname":"snssqs-pubsub","sourc
e":"productservice","specversion":"1.0","time":"2025-12-23T14:46:07Z","topic":"orders","traceid":"","tr
aceparent":"","tracestate":"","type":"com.dapr.event.sent"}

==> Pod status:
NAME                              READY   STATUS    RESTARTS   AGE   IP               NODE
              NOMINATED NODE   READINESS GATES
orderservice-76c489798c-9gntr     2/2     Running   0          16m   192.168.22.177   ip-192-168-3-230.
ec2.internal   <none>           <none>
productservice-5bd6fb54ff-m4pkk   2/2     Running   0          23m   192.168.41.34    ip-192-168-43-22.
ec2.internal   <none>           <none>

==> Services:
NAME                 TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)
AGE
orderservice         ClusterIP   10.100.142.39    <none>        8090/TCP
27m
orderservice-dapr    ClusterIP   None             <none>        80/TCP,50001/TCP,50002/TCP,9090/TCP
27m
productservice       ClusterIP   10.100.156.239   <none>        8080/TCP
27m
productservice-dapr  ClusterIP   None             <none>        80/TCP,50001/TCP,50002/TCP,9090/TCP
27m

==> Dapr components:
NAME           AGE
snssqs-pubsub  28m
423946@AMBGB000622 dapr-eks-pubsub-ready %
```

5. ECR repositories with pushed images

```
423946@AMBGB000622 dapr-eks-pubsub-ready % aws ecr describe-repositories --region us-east-1 --profile Deepak
{
    "repositories": [
        {
            "repositoryArn": "arn:aws:ecr:us-east-1:946248011760:repository/orderservice",
            "registryId": "946248011760",
            "repositoryName": "orderservice",
            "repositoryUri": "946248011760.dkr.ecr.us-east-1.amazonaws.com/orderservice",
            "createdAt": "2025-12-22T11:41:09.817000+00:00",
            "imageTagMutability": "MUTABLE",
            "imageScanningConfiguration": {
                "scanOnPush": false
            },
            "encryptionConfiguration": {
                "encryptionType": "AES256"
            }
        },
        {
            "repositoryArn": "arn:aws:ecr:us-east-1:946248011760:repository/productservice",
            "registryId": "946248011760",
            "repositoryName": "productservice",
            "repositoryUri": "946248011760.dkr.ecr.us-east-1.amazonaws.com/productservice",
            "createdAt": "2025-12-22T11:41:06.238000+00:00",
            "imageTagMutability": "MUTABLE",
            "imageScanningConfiguration": {
                "scanOnPush": false
            },
            "encryptionConfiguration": {
                "encryptionType": "AES256"
            }
        }
    ]
}
423946@AMBGB000622 dapr-eks-pubsub-ready %
```

6. Bedrock analysis

```
423946@AMBGB000622 dapr-eks-pubsub-ready % python3 bedrock.py

=== Bedrock (Titan) Analysis ===

[{'tokenCount': 116, 'outputText': 'snssqs-pubsub   62m\npod "test-curl" deleted\n\nThe logs indicate that the pub/sub test was successful. The O
rderService is listening on port 8090, and the Pod status shows that both the OrderService and ProductService are running. The services are expos
ed externally with ClusterIPs and have the appropriate ports open. The Dapr components, including the SNSSQS pub/sub component, are also running.
\n\nThere are no errors or warnings in the logs. The pub/sub test was successful.', 'completionReason': 'FINISH'}]
423946@AMBGB000622 dapr-eks-pubsub-ready %
```

7. Stress test output

```
423946@AMBGB000622 dapr-eks-pubsub-ready % echo "=== STRESS TEST DEMONSTRATION ==="
echo "Sending multiple concurrent requests..."
for i in {1..5}; do
  kubectl -n dapr-apps run load-test-$i --restart=Never --image=curlimages/curl:8.10.1 --command -- curl -X POST http://productservice:8080/publish -H 'Content-Type: applic
ation/json' -d "{\"orderId\": $i, \"item\":\"load-test-$i\", \"price\": $((RANDOM % 1000))}" &
done
echo "Waiting for completion..."
sleep 8
echo ""
echo "=== STRESS TEST RESULTS ==="
kubectl -n dapr-apps get pods | grep load-test
echo ""
echo "=== CLEANUP ==="
kubectl -n dapr-apps delete pods -l run --field-selector=status.phase=Succeeded
=== STRESS TEST DEMONSTRATION ===
Sending multiple concurrent requests...
[2] 7386
[3] 7387
[4] 7388
[5] 7389
[6] 7390
Waiting for completion...
pod/load-test-5 created
pod/load-test-4 created
[6]  + done       kubectl -n dapr-apps run load-test-$i --restart=Never  --command -- curl -X
[5]  + done       kubectl -n dapr-apps run load-test-$i --restart=Never  --command -- curl -X
pod/load-test-1 created
[2]    done       kubectl -n dapr-apps run load-test-$i --restart=Never  --command -- curl -X
pod/load-test-3 created
[4]  + done       kubectl -n dapr-apps run load-test-$i --restart=Never  --command -- curl -X
pod/load-test-2 created
[3]  + done       kubectl -n dapr-apps run load-test-$i --restart=Never  --command -- curl -X

=== STRESS TEST RESULTS ===
load-test-1                     0/1     Completed   0          8s
load-test-2                     0/1     Completed   0          8s
load-test-3                     0/1     Completed   0          8s
load-test-4                     0/1     Completed   0          8s
load-test-5                     0/1     Completed   0          8s

=== CLEANUP ===
pod "load-test-1" deleted
pod "load-test-2" deleted
pod "load-test-3" deleted
pod "load-test-4" deleted
pod "load-test-5" deleted
```

8. Logs screenshot: