# Dokumentasi DevOps Challenge Q2
# Kelompok 2

## List of Screenshots:

### 1. Kubectl get nodes

```
root@node3:/home/u01# kubectl get node
NAME          STATUS   ROLES           AGE     VERSION
kubemaster    Ready    control-plane   4h8m    v1.26.1
node1         Ready    <none>          4h7m    v1.26.1
node2         Ready    <none>          3h58m   v1.26.1
node3         Ready    <none>          3h57m   v1.26.1
node4         Ready    <none>          3h57m   v1.26.1
root@node3:/home/u01# date
Wed 15 Feb 2023 07:50:16 PM WIB
root@node3:/home/u01#
```

### 2. Kubectl describe (salah satu node)
- Kubectl describe pod

```
IPs:
  IP:           192.168.104.1
Controlled By:  ReplicaSet/sosmed-app-74cbbbccdc
Containers:
  sosmed:
    Container ID:   containerd://8862cbd0cd607dcf020e0033e18d7434ecb3141b7081e679f77c8ba2570ffb5b
    Image:          angeloken/test:testws
    Image ID:       docker.io/angeloken/test@sha256:c7cf55e454764944253cc1a420211f1ab1bf24ce6d23f191b2f4f2952feb78f8
    Port:           80/TCP
    Host Port:      0/TCP
    State:          Running
      Started:      Wed, 15 Feb 2023 16:56:25 +0700
    Ready:          True
    Restart Count:  0
    Environment:    <none>
    Mounts:
      /data from config-volume (rw)
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-qnhm4 (ro)
Conditions:
  Type              Status
  Initialized       True
  Ready             True
  ContainersReady   True
  PodScheduled      True
Volumes:
  config-volume:
    Type:        PersistentVolumeClaim (a reference to a PersistentVolumeClaim in the same namespace)
    ClaimName:   vol1
    ReadOnly:    false
  kube-api-access-qnhm4:
    Type:                    Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds:  3607
    ConfigMapName:           kube-root-ca.crt
    ConfigMapOptional:       <nil>
    DownwardAPI:             true
QoS Class:                   BestEffort
Node-Selectors:              <none>
Tolerations:                 node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                             node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:                      <none>
root@node3:/home/u01# date
Wed 15 Feb 2023 07:52:57 PM WIB
root@node3:/home/u01#
```

- Kubectl describe deployment

```
root@node3:/home/u01# kubectl get deployment -n dev
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
sosmed-app    1/1     1            1           177m
sql-db        0/1     1            0           15m
root@node3:/home/u01# kubectl describe deployment sosmed-app
Error from server (NotFound): deployments.apps "sosmed-app" not found
root@node3:/home/u01# kubectl describe deployment sosmed-app -n dev
Name:                   sosmed-app
Namespace:              dev
CreationTimestamp:      Wed, 15 Feb 2023 16:56:12 +0700
Labels:                 app=sosmed
Annotations:            deployment.kubernetes.io/revision: 1
Selector:               app=sosmed
Replicas:               1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrategyType:           RollingUpdate
MinReadySeconds:        0
RollingUpdateStrategy:  25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=sosmed
  Containers:
   sosmed:
    Image:          angeloken/test:testws
    Port:           80/TCP
    Host Port:      0/TCP
    Environment:    <none>
    Mounts:
      /data from config-volume (rw)
  Volumes:
   config-volume:
    Type:           PersistentVolumeClaim (a reference to a PersistentVolumeClaim in the same namespace)
    ClaimName:  vol1
    ReadOnly:   false
Conditions:
  Type           Status  Reason
  ----           ------  ------
  Available      True    MinimumReplicasAvailable
  Progressing    True    NewReplicaSetAvailable
OldReplicaSets:  <none>
NewReplicaSet:   sosmed-app-74cbbbccdc (1/1 replicas created)
Events:          <none>
root@node3:/home/u01# date
Wed 15 Feb 2023 07:53:43 PM WIB
root@node3:/home/u01#
```

- Kubectl describe nodes

```
ephemeral-storage:  16849712Ki
hugepages-1Gi:       0
hugepages-2Mi:       0
memory:             8145336Ki
pods:               110
Allocatable:
  cpu:                4
  ephemeral-storage: 15528694554
  hugepages-1Gi:      0
  hugepages-2Mi:      0
  memory:            8042936Ki
  pods:              110
System Info:
  Machine ID:              45fe4e784b214057b888015925013e62
  System UUID:             c21db681-fe10-45af-963f-243a60c3eeb1
  Boot ID:                 a48d91d4-b82c-486f-afa2-c09092ea387d
  Kernel Version:          5.4.0-139-generic
  OS Image:                Ubuntu 20.04.5 LTS
  Operating System:        linux
  Architecture:            amd64
  Container Runtime Version: containerd://1.6.16
  Kubelet Version:         v1.26.1
  Kube-Proxy Version:      v1.26.1
PodCIDR:                   192.168.3.0/24
PodCIDRs:                  192.168.3.0/24
Non-terminated Pods:       (2 in total)
  Namespace                Name                  CPU Requests  CPU Limits  Memory Requests  Memory Limits  Age
  ---------                ----                  ------------  ----------  ---------------  -------------  ---
  kube-system              calico-node-5dng4     250m (6%)     0 (0%)      0 (0%)           0 (0%)         4h4m
  kube-system              kube-proxy-dk9kp      0 (0%)        0 (0%)      0 (0%)           0 (0%)         4h4m
Allocated resources:
  (Total limits may be over 100 percent, i.e., overcommitted.)
  Resource           Requests    Limits
  --------           --------    ------
  cpu                250m (6%)   0 (0%)
  memory             0 (0%)      0 (0%)
  ephemeral-storage  0 (0%)      0 (0%)
  hugepages-1Gi      0 (0%)      0 (0%)
  hugepages-2Mi      0 (0%)      0 (0%)
Events:              <none>
root@node3:/home/u01# date
Wed 15 Feb 2023 07:57:17 PM WIB
```

## 3. Kubectl get pod -A

```
root@node3:/home/u01# kubectl get pod -A
NAMESPACE     NAME                                       READY   STATUS    RESTARTS        AGE
dev           pacebook                                   1/1     Running   0               3h33m
dev           sosmed-app-86667954db-htdgp                1/1     Running   0               8m29s
dev           sosmed-app-86667954db-szcd4                1/1     Running   0               8m37s
dev           sosmed-app-86667954db-vgjp2                1/1     Running   0               8m37s
dev           sosmed-app-86667954db-vpmwq                1/1     Running   0               8m37s
dev           sosmed-app-86667954db-zncvk                1/1     Running   0               8m30s
dev           sql-db-9c6fb9fc6-t4wkc                     1/1     Running   0               10m
kube-system   calico-kube-controllers-57b57c56f-jcztz    1/1     Running   0               7h16m
kube-system   calico-node-2cmvh                          1/1     Running   1 (7h6m ago)    7h8m
kube-system   calico-node-5dng4                          1/1     Running   0               7h7m
kube-system   calico-node-k6twn                          1/1     Running   1 (7h11m ago)   7h16m
kube-system   calico-node-rcz7d                          1/1     Running   0               7h16m
kube-system   calico-node-wzhh2                          1/1     Running   0               7h7m
kube-system   coredns-787d4945fb-dh2p6                   1/1     Running   0               7h18m
kube-system   coredns-787d4945fb-rtw6n                   1/1     Running   0               7h18m
kube-system   etcd-kubemaster                            1/1     Running   14              7h18m
kube-system   kube-apiserver-kubemaster                  1/1     Running   14              7h18m
kube-system   kube-controller-manager-kubemaster         1/1     Running   14              7h18m
kube-system   kube-proxy-9kbh8                           1/1     Running   1 (7h11m ago)   7h17m
kube-system   kube-proxy-bxxzh                           1/1     Running   0               7h7m
kube-system   kube-proxy-dk9kp                           1/1     Running   1               7h7m
kube-system   kube-proxy-qr297                           1/1     Running   0               7h18m
kube-system   kube-proxy-xjfxc                           1/1     Running   1 (7h6m ago)    7h8m
kube-system   kube-scheduler-kubemaster                  1/1     Running   14              7h18m
root@node3:/home/u01# date
Wed 15 Feb 2023 11:00:23 PM WIB
root@node3:/home/u01#
```

## 4. Kubectl get svc -A

```
root@node3:/home/u01# kubectl get svc -A -n dev
NAMESPACE     NAME          TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)                  AGE
default       kubernetes    ClusterIP   10.96.0.1       <none>        443/TCP                  4h2m
dev           svc-sosmed    NodePort    10.107.176.229  <none>        80:30082/TCP             167m
kube-system   kube-dns      ClusterIP   10.96.0.10      <none>        53/UDP,53/TCP,9153/TCP   4h2m
root@node3:/home/u01# date
Wed 15 Feb 2023 07:43:53 PM WIB
root@node3:/home/u01#
```

## 5. Kubectl get secret

```
root@node3:/home/u01# kubectl get secret -n dev
NAME              TYPE      DATA   AGE
secret-rahasia    Opaque    4      5m17s
root@node3:/home/u01# date
Wed 15 Feb 2023 07:43:18 PM WIB
```

## 6. Kubectl get configmap

```
root@node3:/home/u01# kubectl get configmap -n dev
NAME              DATA   AGE
configmap-sql     2      13m
kube-root-ca.crt  1      6h38m
root@node3:/home/u01# date
Wed 15 Feb 2023 11:01:00 PM WIB
root@node3:/home/u01#
```

## 7. Kubectl pv

```
root@node3:/home/u01# kubectl get pv -n dev
NAME      CAPACITY   ACCESS MODES   RECLAIM POLICY   STATUS        CLAIM      STORAGECLASS      REASON   AGE
pvol      3Gi        RWO            Retain           Bound         dev/vol1   storage-sosmed             168m
pvolsql   3Gi        RWO            Retain           Terminating   dev/vol2   storage-sqldb              128m
root@node3:/home/u01# date
Wed 15 Feb 2023 07:44:26 PM WIB
root@node3:/home/u01#
```

## 8. Kubectl get pvc

```
root@node3:/home/u01# kubectl get pvc -n dev
NAME   STATUS   VOLUME    CAPACITY   ACCESS MODES   STORAGECLASS      AGE
vol1   Bound    pvol1     3Gi        RWO            storage-sosmed    166m
vol2   Bound    pvolsql   3Gi        RWO            storage-sqldb     127m
root@node3:/home/u01# date
Wed 15 Feb 2023 07:42:53 PM WIB
root@node3:/home/u01#
```