Pod

Pod erőforás dokumentáció megjelenítése

```
kubectl explain pod
```

Egyszerű pod létrehozása egy konténerrel parancssorból

```
kubectl run nginx-pod --image=registry.r-l.hu/library/nginx:latest --
restart=Never
```

Egyszerű pod létrehozása egy konténerrel yaml fájlból

```
cat > egyszeru-pod-egy-kontenerrel.yaml <<EOF
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
spec:
  containers:
    - name: nginx
      image: registry.r-l.hu/library/nginx:latest
EOF
```

Konténer indítása

```
kubectl apply -f egyszeru-pod-egy-kontenerrel.yaml
pod/nginx-pod created

kubectl wait --for=condition=Ready pod/nginx-pod --timeout=90s
pod/nginx-pod condition met
```

Konténer ellenőrzése

```
kubectl get pod/nginx-pod -o yaml
```

```
kubectl describe pod/nginx-pod
Name:             nginx-pod
Namespace:        default
Priority:         0
Service Account:  default
Node:             worker01.r-logic.eu/185.207.251.233
Start Time:       Tue, 16 Sep 2025 04:33:07 +0200
Labels:           run=nginx-pod
Annotations:      <none>
Status:           Running
IP:               10.244.1.14
IPs:
```

```
  IP:  10.244.1.14
Containers:
  nginx-pod:
    Container ID:
containerd://406b1f5856e2bfaa9e91d391078458c56e64c2f9d068f9b65dbab4d3c0b44e8
b
    Image:          registry.r-l.hu/library/nginx:latest
    Image ID:       registry.r-
l.hu/library/nginx@sha256:d5f28ef21aabddd098f3dbc21fe5b7a7d7a184720bc07da0b6
c9b9820e97f25e
    Port:           <none>
    Host Port:      <none>
    State:          Running
      Started:      Tue, 16 Sep 2025 04:33:14 +0200
    Ready:          True
    Restart Count:  0
    Environment:    <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-
f79p9 (ro)
Conditions:
  Type                        Status
  PodReadyToStartContainers   True
  Initialized                 True
  Ready                       True
  ContainersReady             True
  PodScheduled                True
Volumes:
  kube-api-access-f79p9:
    Type:                    Projected (a volume that contains injected data
from multiple sources)
    TokenExpirationSeconds:  3607
    ConfigMapName:           kube-root-ca.crt
    Optional:                false
    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:
  Type    Reason     Age   From               Message
  ----    ------     ----  ----               -------
  Normal  Scheduled  53s   default-scheduler  Successfully assigned
default/nginx-pod to worker01.r-logic.eu
  Normal  Pulling    52s   kubelet            Pulling image "registry.r-
l.hu/library/nginx:latest"
  Normal  Pulled     46s   kubelet            Successfully pulled image
"registry.r-l.hu/library/nginx:latest" in 5.622s (5.622s including waiting).
Image size: 72319182 bytes.
```

```
  Normal  Created    46s   kubelet            Created container: nginx-pod
  Normal  Started    46s   kubelet            Started container nginx-pod
```

Konténer nevének kiolvasása

```
kubectl get pod/nginx-pod -o jsonpath='{.spec.containers[*].name}'
```

Utasítások futtatása a konténerben

```
kubectl exec -it pod/nginx-pod -c nginx -- sh
```

Naplók megtekintése

```
kubectl logs pod/nginx-pod
```

```
kubectl logs pod/nginx-pod -c nginx
```

Port tesztelése

```
kubectl port-forward pod/nginx-pod 8080:80
```

Egyszer használatos pod tesztelésekhez

```
kubectl run debug-pod --rm -it --image=registry.r-l.hu/library/busybox:1.36
--restart=Never -- sh
```

Deployment

Deployment létrehozása parancssorból

```
kubectl create deployment nginx-deployment --image=registry.r-
l.hu/library/nginx:latest && kubectl wait --for=condition=Available
deployment/nginx-deployment --timeout=90s
deployment.apps/nginx-deployment created
deployment.apps/nginx-deployment condition met
```

Deployment példányok módosítása

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