

# Pod

Pod erőforrás 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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