

# KONTÉNERIZÁCIÓ (KUBERNETES)

4. forduló

## NOKIA

A kategória támogatója: Nokia

RENDELKEZÉSRE ÁLLÓ IDŐ:

10:00

### Ismertető a feladathoz

#### Fontos információk

A forduló után a megoldások publikálásával együtt iránymutatásként elérhetőek lesznek a **helyezéssel kapcsolatos információk**, látni fogod, hogy a kategóriában a játékosok 20%, 40% vagy 60%-a közé tartozol-e épp.

Felhívjuk figyelmedet, hogy a következő, **5. fordulótól az egyes kategóriák csak a kijelölt napokon lesznek megoldhatóak 7-22 óra között**, érdemes letöltened a naptárat a [Kategóriáim](#) menüpontban.

#### 4th round

In this round you can test you knowlege about pod placement in the Kubernetes domain.

Felhasznált idő: 02:06/10:00

Elért pontszám: 0/25

### 1. feladat 0/5 pont

True or false? All of the nodes in a Kubernetes cluster has to provide the same amount of resources.

#### Válasz

- ☐ True, because divergence is not allowed in a cluster for resource efficiency consideration
- ☐ False, it often makes sense to create a mix of different instance sizes in larger cluster

#### Magyarázat

Learn more about Pod placement in kubernetes here: <https://kubernetes.io/docs/concepts/scheduling-eviction/assign-pod-node/>

<https://kubernetes.io/docs/concepts/scheduling-eviction/kube-scheduler/>

## 2. feladat 0/5 pont

What is node affinity?

### Válasz

- ☐ Node affinity can absorb massive amounts of data every second, making it well suited for complex workloads.
- ☐ Node affinity allow single sign-on with Identity and Node Access Management aimed at modern applications and services
- ☒ Node affinity is a set of rules used by the Kubernetes scheduler to determine where a pod can be scheduled
- ☐ Node affinity deploys containerized applications to a Kubernetes cluster, troubleshoots containerized applications and manages the cluster resources.
- ☐ A Node affinity is a worker machine in Kubernetes and may be either a virtual or a physical machine, depending on the cluster

### Magyarázat

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## 3. feladat 0/5 pont

What is pod eviction?

### Válasz

- ☐ Node is unable to respond and Kubernetes kills the Pods and removes the entry from the apiserver.
- ☒ Eviction is the process of proactively terminating one or more Pods on Nodes that are low on free resources.
- ☐ Evicted pods are intended to be used to specify attributes of objects that are meaningful and relevant to users.
- ☐ Pod eviction allows Kubernetes to select resources based on the value of labels and resource fields assigned to a group of pods or nodes
- ☐ Pod eviction are values set in kubernetes resources that are responsible for the permanent deletion of the pod instances through the API server.

## Magyarázat

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## 4. feladat 0/5 pont

What is the preferred way in Kubernetes to refer to a group of resources when executing a command?

### Válasz

- ☐ Affinity rule
- ☒ Labels
- ☐ Querying
- ☐ Cluster IP
- ☐ Namespace
- ☐ Node IP
- ☐ Annotations

## Magyarázat

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## 5. feladat 0/5 pont

Is there any way to schedule pods on a tainted node?

### Válasz

- ☐ When a node is tainted pods don't get scheduled on it by default. It is not even possible to allow scheduling to such a node.
- ☐ Pods are allowed to be scheduled on tainted nodes by default.
- ☒ Scheduling on tainted nodes can be allowed by applying tolerations to the pod in their spec.

- ☐ Modification of the node base OS is needed to avoid the taint flag.
- ☐ Tainted nodes are excluded from scheduling and removed from cluster for reinstallation.

## Magyarázat

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Legfontosabb tudnivalók

Kapcsolat

Versenyszabályzat

Adatvédelem

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KÉSZÍTETTE

Megjelenés

☀ Világos ⇅