

Kubernetes yaml(06dec.2023)

Instructions

Services - 1

Introduction: Let us start with Services! Given a service-definition.yml file. We are only getting started with it, so let's get it populated.

Instruction: Add all the root level properties to it. Note: Only add the properties, not any values.

exercise.rb service-definition.yml answer.yml

```
1 apiVersion:
2 kind:
3 metadata:
4 spec:
```

Run tests

Reset

All changes saved | Line 4, Column 6

Result

Coding Exercise

Next



Instructions

Services - 2

Introduction: Let us now add values for Service. Service is under **apiVersion v1**

Instruction: Update values for **apiVersion** and **kind**

exercise.rb service-definition.yml answer.yml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4 spec:
```

Run tests

Reset

All changes saved | Line 2, Column 14

Result

Success

Test Cases

Failed: 0, Passed: 1 of 1 tests

test_yaml

Test result

User logs

✓ Your code passed this test

Coding Exercise

Next



Instructions

Services - 3

Introduction: Let us now add values for metadata.

Instruction: Add a name for the service = **frontend** and a **label = app=>myapp**

exercise.rb service-definition.yml answer.yml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4   name: frontend
5   labels:
6     app: myapp
7 spec:
```

Run tests

Reset

All changes saved | Line 6, Column 19

Result

Success

Test Cases

Failed: 0, Passed: 1 of 1 tests

test_yaml

Test result

User logs

✓ Your code passed this test

Coding Exercise

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Instructions

Services - 4

Introduction: Let us now add values for spec section. The spec section for Services have **type, selector and ports**.

Instruction: Add properties under spec section - **type, selector and ports**. Do not add any values for them.

exercise.rb service-definition.yml answer.yml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4   name: frontend
5   labels:
6     app: myapp
7 spec:
8   type:
9   ports:
10  selector:
```

Run tests

Reset

All changes saved | Line 9, Column 10

Result

Success

Test Cases

Failed: 0, Passed: 1 of 1 tests

test_yaml

Test result

User logs

✓ Your code passed this test

Coding Exercise

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Instructions

Services - 5

Introduction: Let us now add values for ports. Ports is an Array/ List. Each item in the list has a set of properties - port and targetPort

Instruction: Create an Array/List item under **ports**. Add a dictionary with properties **port** and **targetPort**. Set values for both to port **80**.

Note: We will not be providing a NodePort as we would like Kubernetes to assign one automatically for us.

exercise.rb

service-definition.yml

answer.yml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4   name: frontend
5   labels:
6     app: myapp
7 spec:
8   type:
9     ports:
10     - port: 80
11       targetPort: 80
12   selector:
```

Run tests

Reset

All changes saved | Line 11, Column 21

Result

Success

Test Cases

Failed: 0, Passed: 1 of 1 tests

test_yaml

Test result

User logs

✓ Your code passed this test

Coding Exercise

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Instructions

Services - 6

Introduction: Let us now add values for type. Since we are creating a frontend service for enabling external access to users, we will set it to **NodePort**.

Instruction: Set value for **type** to **NodePort**.

exercise.rb

service-definition.yml

answer.yml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4   name: frontend
5   labels:
6     app: myapp
7 spec:
8   type: NodePort
9   ports:
10     - port: 80
11       targetPort: 80
12   selector:
```

Run tests

Reset

All changes saved | Line 12, Column 12

Result

Success

Test Cases

Failed: 0, Passed: 1 of 1 tests

Test result

User logs

Coding Exercise

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