## Utilize Persistent and Ephemeral Volumes



**Nigel Poulton**Author & Trainer

@nigelpoulton nigelpoulton.com



#### Agenda



Understanding Persistent and Ephemeral Volumes

Working with Persistent and Ephemeral Volumes

**Exam Scenarios** 

**Recap and Test Yourself** 



## Understanding Persistent and Ephemeral Volumes

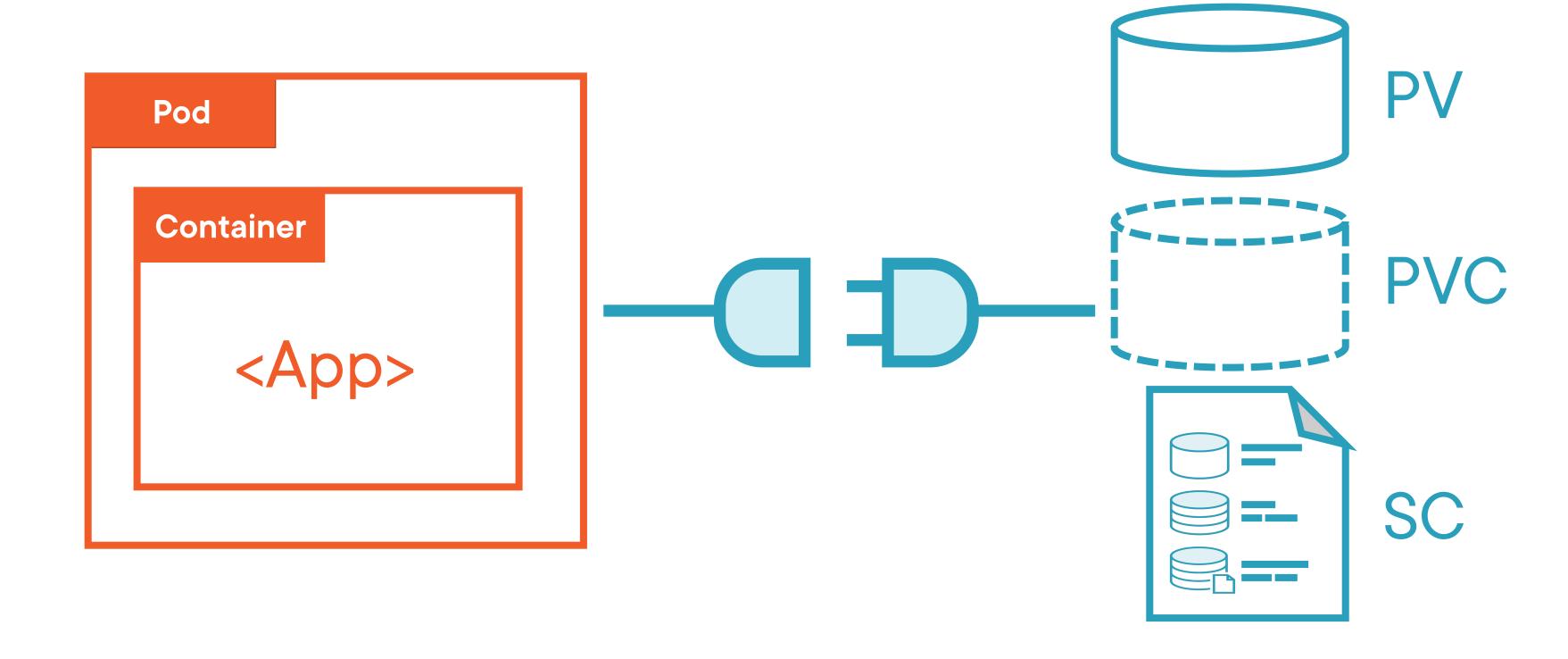


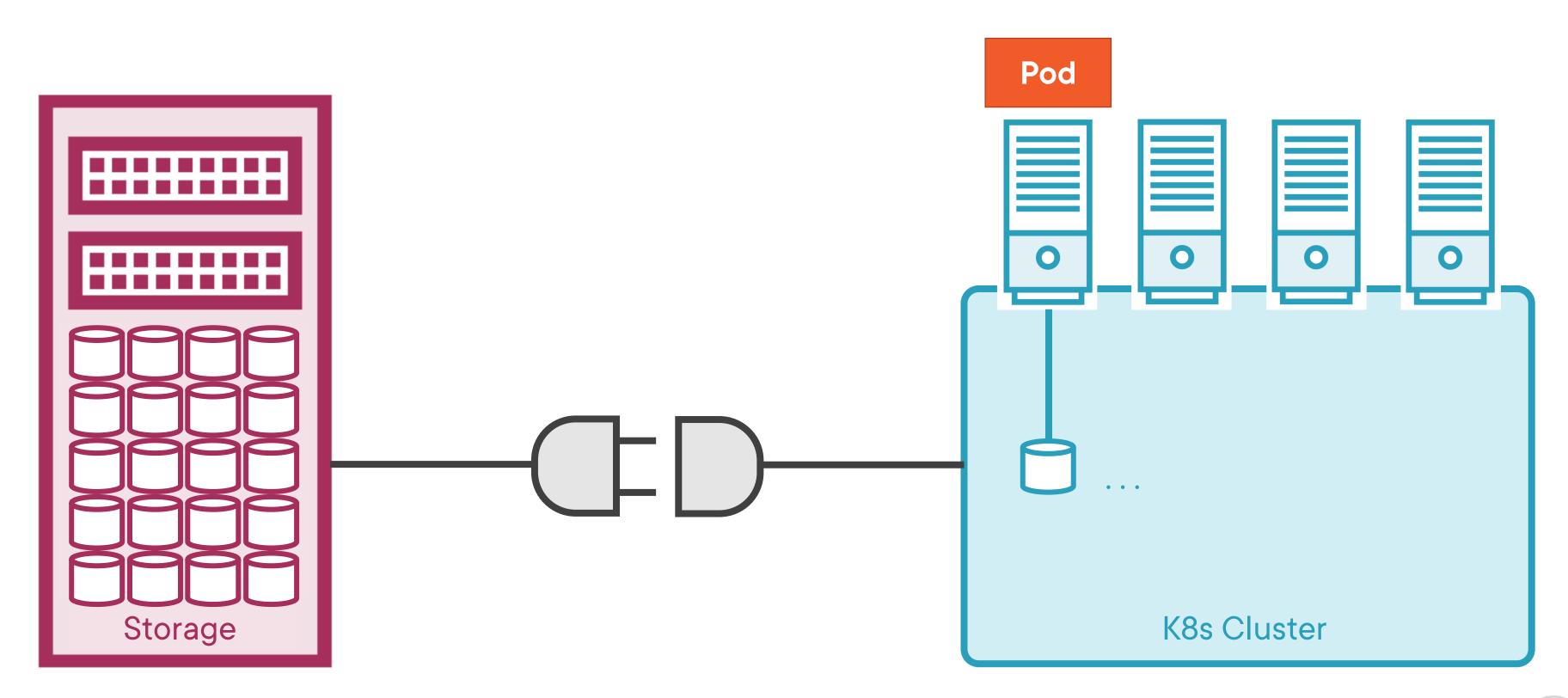


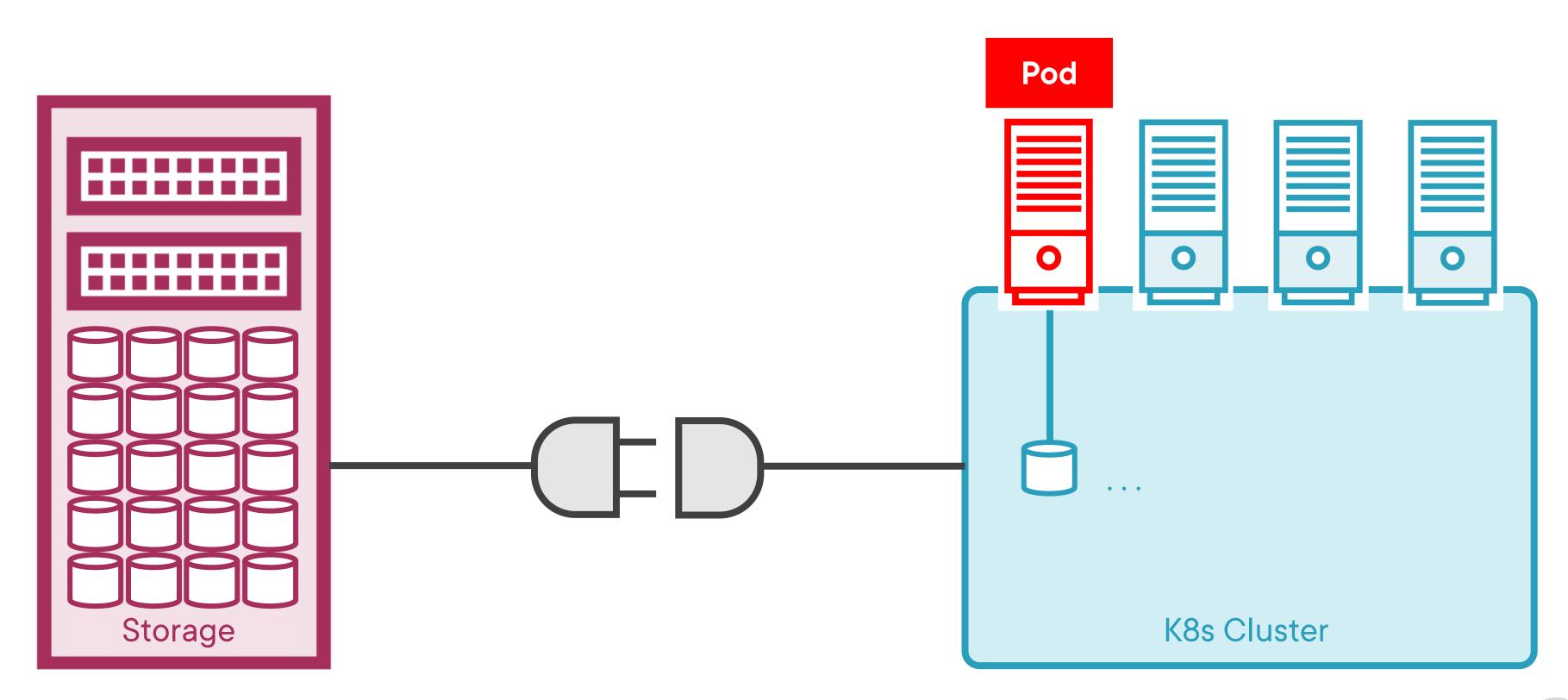


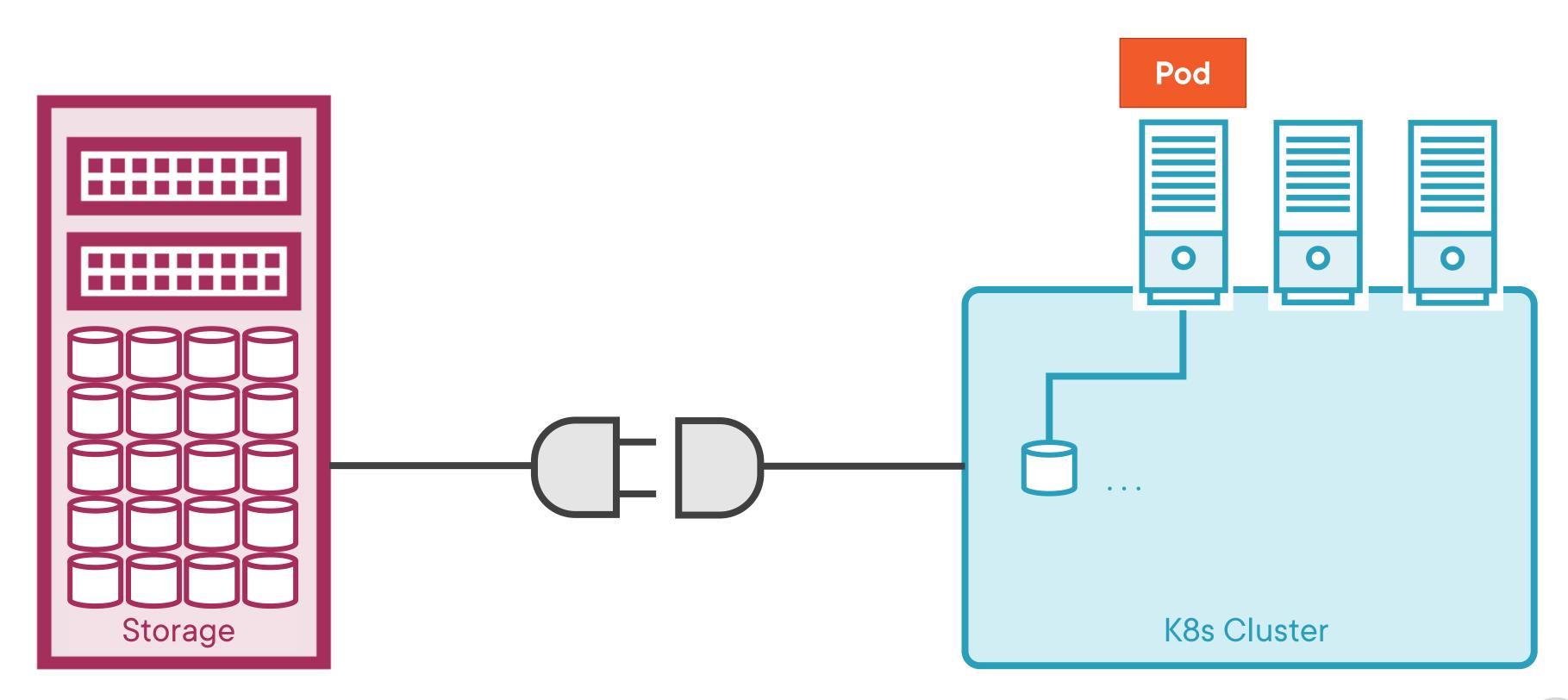


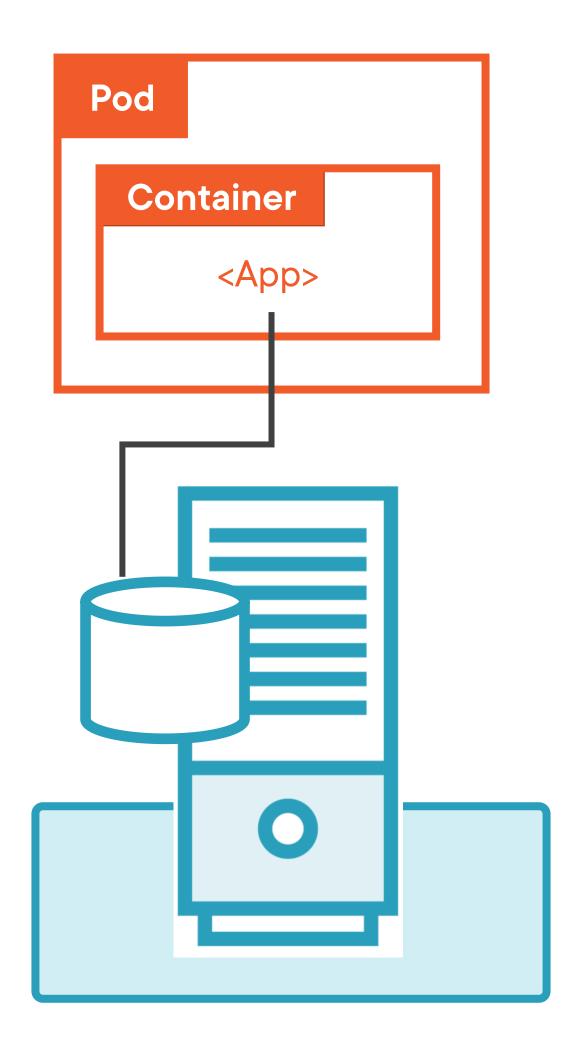


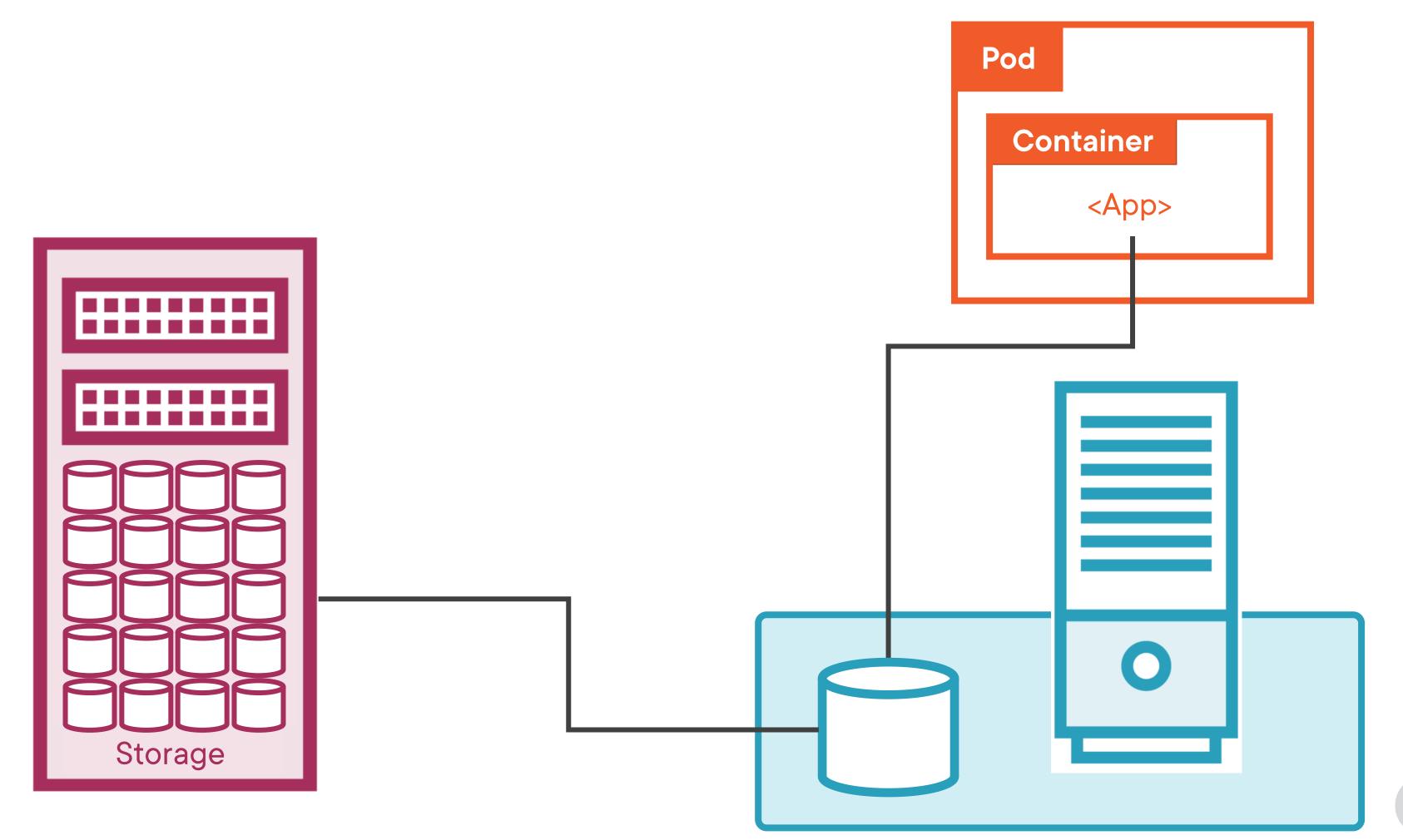


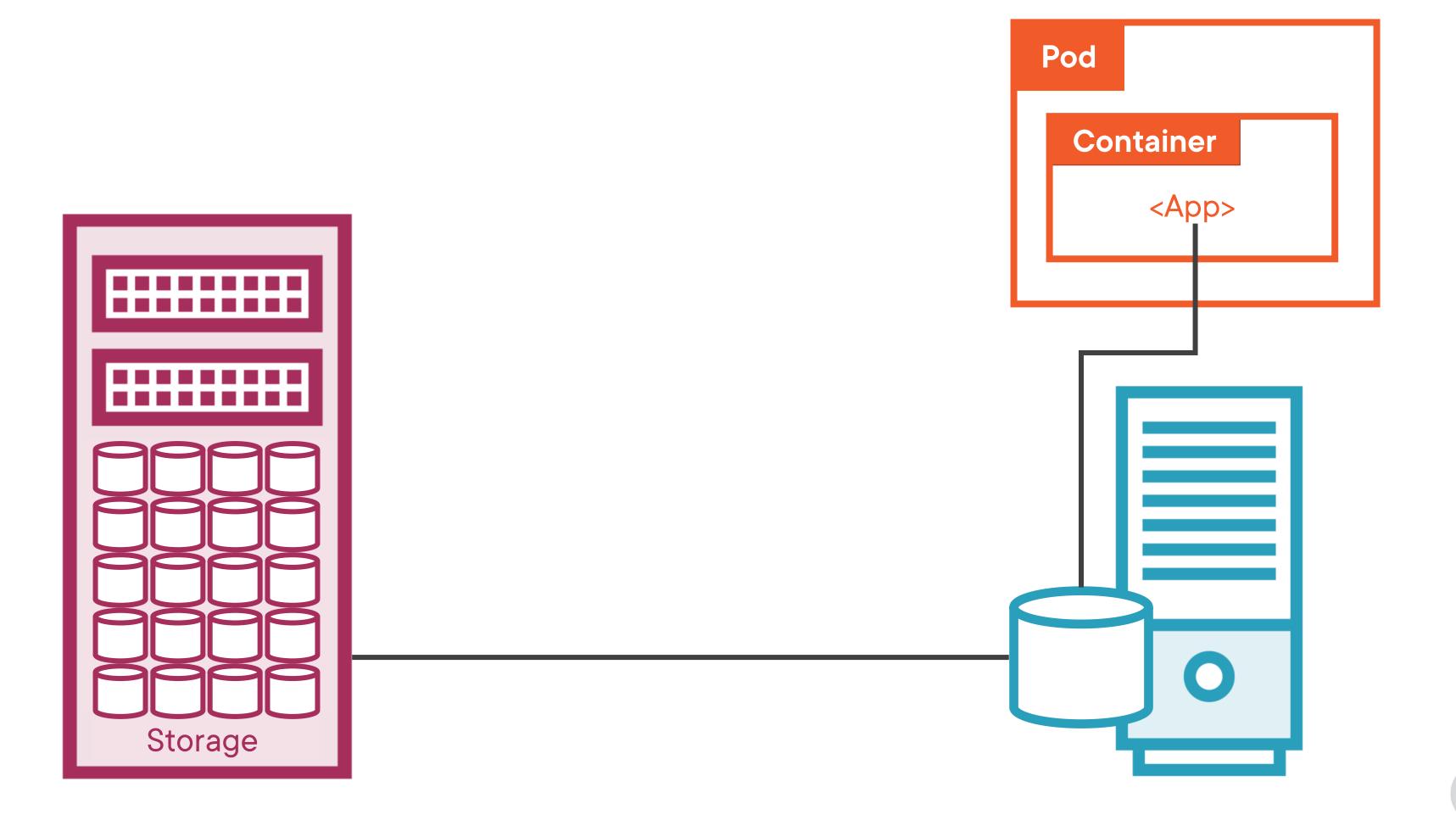


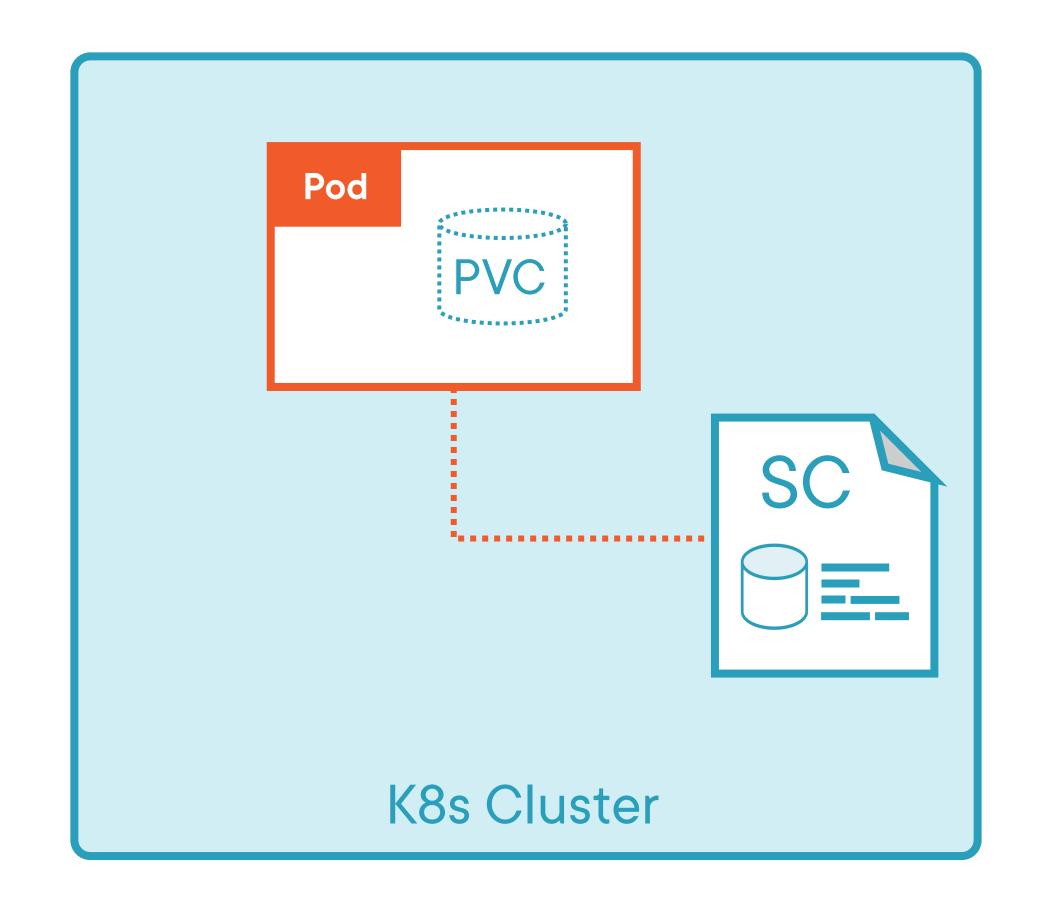


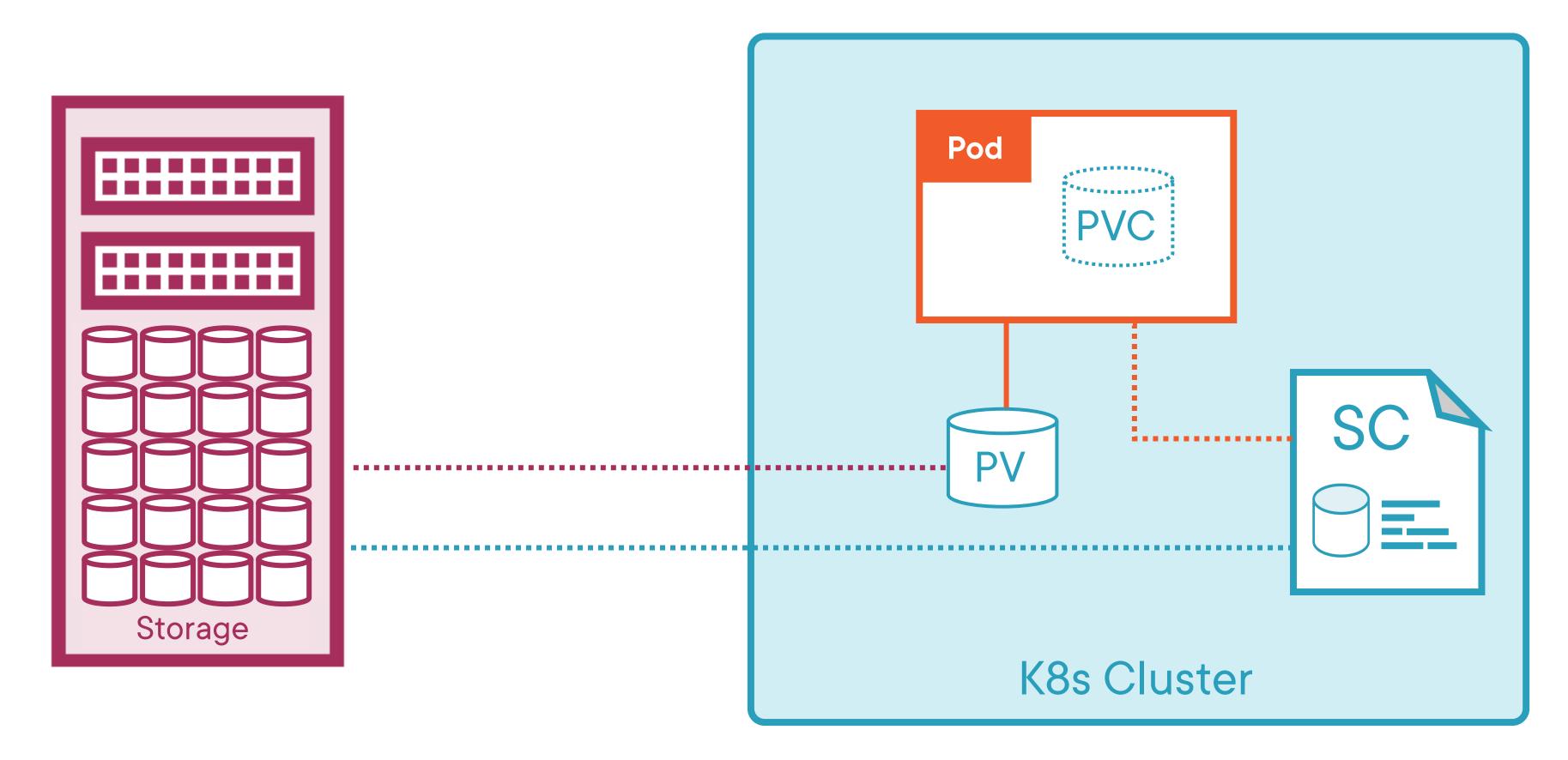












## Working with Persistent and Ephemeral Volumes

### Exam Scenarios









Task weight: 4%



Complete this task in XYZ environment.
The command to connect is blah blah blah...

#### Task

There's an app deployed to the **backend Namespace** of your cluster. It's failing to start.

Use the files in your working directory to troubleshoot the issue.

When you've resolved the issue, deploy the app and ensure the Pods enter the running state.







Task weight: 8%



Complete this task in XYZ environment.
The command to connect is blah blah blah...

#### **Task**

Perform all tasks in the prod1 Namespace.

The web1 application is deployed in the prod1 Namespace. It's defined in the web1.yml file and consists of a main application container and a sidecar.

The app was designed for both containers to share an **emptyDir** ephemeral volume called **html**.

The main application container serves content from the shared volume and the sidecar synchronises content from a remote GitHub repo.

The app is not working. Troubleshoot the problem, fix it, and re-deploy the app.



## Recap and Test Yourself





Persistent Volumes
For important data that can't be lost



Ephemeral Volumes
For caching and other temp
data

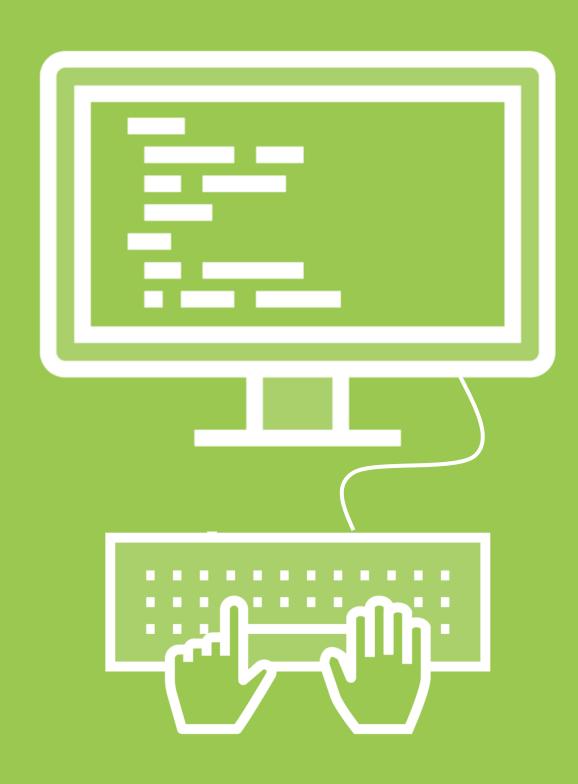


# Expect to work with StorageClass YAML



# Expect to work with PersistentVolumeClaim YAML





### GitHub Repo https://github.com/nigelpoulton/ckad

#### Navigate to:

- 1 Application Design and Build
- 5 Utilize Persistent and Ephemeral Volumes
- Test Yourself





#### **Nigel Poulton**

**Author & Trainer** 

@nigelpoulton
linkedin.com/in/nigelpoulton
nigelpoulton.com

Up Next: Recap and What's Next