

**Your grade: 100%**

Your latest: **100%** • Your highest: **100%** • To pass you need at least 70%. We keep your highest score.

Next item →

1. An Apache Spark application has two processes: the driver program and the executor. The driver process can be run on which of the following?

1 / 1 point

- ☒ Cluster node
- ☐ Task
- ☐ Executors
- ☐ Worker node

✓ **Correct**

Correct! The driver program runs as one process per application and is typically executed on a cluster's master node.

2. Which cluster manager is most suitable for establishing simple clusters?

1 / 1 point

- ☒ Spark Standalone
- ☐ Apache Hadoop YARN
- ☐ Apache Mesos
- ☐ Kubernetes

✓ **Correct**

Correct! A Standalone cluster manager is included with the Spark installation. It is best for setting up a simple cluster.

3. The 'spark-submit' script, included with Spark for submitting applications, offers various options/settings. Which option/setting allows you to view available options for a specific cluster manager?

1 / 1 point

- ☐ `--executor-cores`
- ☐ `--class <full-class-name>`
- ☐ `deploy-mode`
- ☒ `./bin/spark-submit --help`

✓ **Correct**

Correct! To see available options for a specific cluster manager, you can use `./bin/spark-submit --help` command.

4. What is the advantage of using Spark on IBM Cloud? Select all that apply.

1 / 1 point

- ☐ Better communication for local cluster nodes
- ☒ Enterprise-grade security

✓ **Correct**

Correct! IBM Cloud provides enterprise-grade security.

- ☐ Easy to configure local cluster nodes
- ☒ Pre-existing default configuration

✓ **Correct**

Correct! You can run Spark on the cloud with a pre-existing default configuration, streamlining deployment.

5. Spark dynamic configuration avoids hardcoding specific values. Which of the following is an example where dynamic configuration can be

1 / 1 point

appropriately used?

- ☐ Application version
- ☐ Application name
- ☐ Properties related to the application
- ☒ Specifying the number of cores to be utilized

✓ **Correct**

Correct! Dynamic configuration is suitable for managing changes in the number of cores used by the executors.

6. Which of the following statements accurately describes the method used for configuring Spark?

1 / 1 point

- ☒ Configuration Type: Properties  
Parameters: Adjust and control application behavior
- ☐ Configuration Type: Logging  
Parameters: Adjust settings on a per-machine basis
- ☐ Configuration Type: Logging  
Parameters: Adjust and control application behavior
- ☐ Configuration Type: Properties  
Parameters: Adjust settings on a per-machine basis

✓ **Correct**

Correct! Configuring Spark involves using properties to adjust and control application behavior.

7. Which of the following statements is accurate regarding the two driver-deploy modes?

1 / 1 point

- ☐ Client mode refers to the mode when the framework launches the driver process inside the cluster.
- ☐ Cluster mode refers to the mode when the application submitter launches the executor process outside the cluster.
- ☒ Client mode refers to the mode when the application submitter launches the driver process outside the cluster.
- ☐ Cluster mode refers to the mode when the application submitter launches the driver process outside the cluster.

✓ **Correct**

Correct! In client mode, the application submitter indeed launches the driver process outside the cluster.