



# SAA-C01<sup>Q&As</sup>

AWS Certified Solutions Architect - Associate (SAA-C01)

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### QUESTION 1

An application calls a service run by a vendor. The vendor charges based on the number of calls. The finance department needs to know the number of calls that are made to the service to validate the billing statements. How can a Solutions Architect design a system to durably store the number of calls without requiring changes to the application?

- A. Call the service through an internet gateway.
- B. Decouple the application from the service with an Amazon SQS queue.
- C. Publish a custom Amazon CloudWatch metric that counts calls to the service.
- D. Call the service through a VPC peering connection.

Correct Answer: C

There are 2 main types of monitoring you can do on AWS EC2 Instances as follows

Basic Monitoring for Amazon EC2 instances: Seven pre-selected metrics at five-minute frequency and three status check metrics at one-minute frequency, for no additional charge.

Detailed Monitoring for Amazon EC2 instances: All metrics available to Basic Monitoring at one-minute frequency, for an additional charge. Instances with Detailed Monitoring enabled allows data aggregation by Amazon EC2 AMI ID and instance type.

Reference: <https://datanextsolutions.com/blog/how-to-collect-custom-metrics-from-aws-ec2-instances/>

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### QUESTION 2

A Solutions Architect is designing a new application that will be hosted on EC2 instances. This application has the following traffic requirements:

Accept HTTP(80)/HTTPS(443) traffic from the Internet.

Accept FTP(21) traffic from the finance team servers at 10.10.2.0/24.

Which of the following AWS CloudFormation snippets correctly declares inbound security group rules that meet the requirements and prevent unauthorized access to additional services on the instance?



```
A. [{
  "IpProtocol" : "tcp",
  "FromPort" : "0",
  "ToPort" : "65535",
  "CidrIp" : "10.10.2.0/24"
}, {
  "IpProtocol" : "tcp",
  "FromPort" : "443",
  "ToPort" : "443",
  "CidrIp" : "0.0.0.0/0"
},
{
  "IpProtocol" : "tcp",
  "FromPort" : "80",
  "ToPort" : "80",
  "CidrIp" : "0.0.0.0/0"
}]

B. [{
  "IpProtocol" : "tcp",
  "FromPort" : "21",
  "ToPort" : "21",
  "CidrIp" : "10.10.2.0/18"
}, {
  "IpProtocol" : "tcp",
  "FromPort" : "443",
  "ToPort" : "443",
  "CidrIp" : "0.0.0.0/0"
},
{
  "IpProtocol" : "tcp",
  "FromPort" : "80",
  "ToPort" : "80",
  "CidrIp" : "0.0.0.0/0"
}]

C. [{
  "IpProtocol" : "tcp",
  "FromPort" : "443",
  "ToPort" : "443",
  "CidrIp" : "0.0.0.0/0"
},
{
  "IpProtocol" : "tcp",
  "FromPort" : "80",
  "ToPort" : "80",
  "CidrIp" : "0.0.0.0/0"
},
{
  "IpProtocol" : "tcp",
  "FromPort" : "21",
  "ToPort" : "21",
  "CidrIp" : "10.10.2.0/24"
}]

D. [{
  "IpProtocol" : "udp",
  "FromPort" : "443",
  "ToPort" : "443",
  "CidrIp" : "0.0.0.0/0"
},
{
  "IpProtocol" : "udp",
  "FromPort" : "80",
  "ToPort" : "80",
  "CidrIp" : "0.0.0.0/0"
},
{
  "IpProtocol" : "udp",
  "FromPort" : "21",
  "ToPort" : "21",
  "CidrIp" : "10.10.2.0/24"
}]
```



A. B. C. D.

Correct Answer: C

### QUESTION 3

Your department creates regular analytics reports from your company's log files. All log data is collected in Amazon S3 and processed by daily Amazon Elastic MapReduce (EMR) jobs that generate daily PDF reports and aggregated tables in

CSV format for an Amazon Redshift data warehouse.

Your CFO requests that you optimize the cost structure for this system.

Which of the following alternatives will lower costs without compromising average performance of the system or data integrity for the raw data?

- A. Use reduced redundancy storage (RRS) for all data in S3. Use a combination of Spot Instances and Reserved Instances for Amazon EMR jobs. Use Reserved Instances for Amazon Redshift.
- B. Use reduced redundancy storage (RRS) for PDF and .csv data in S3. Add Spot Instances to EMR jobs. Use Spot Instances for Amazon Redshift.
- C. Use reduced redundancy storage (RRS) for PDF and .csv data in Amazon S3. Add Spot Instances to Amazon EMR jobs. Use Reserved Instances for Amazon Redshift.
- D. Use reduced redundancy storage (RRS) for all data in Amazon S3. Add Spot Instances to Amazon EMR jobs. Use Reserved Instances for Amazon Redshift.

Correct Answer: D

Reserved Instances (a.k.a. Reserved Nodes) are appropriate for steady-state production workloads, and offer significant discounts over On-Demand pricing. <https://aws.amazon.com/redshift>

Q: What are some EMR best practices?

If you are running EMR in production you should specify an AMI version, Hive version, Pig version, etc. to make sure the version does not change unexpectedly (e.g. when EMR later adds support for a newer version). If your cluster is mission

critical, only use Spot instances for task nodes because if the Spot price increases you may lose the instances. In development, use logging and enable debugging to spot and correct errors faster. If you are using GZIP, keep your file size to 1-2 GB because GZIP files cannot be split. Click here to download the white paper on Amazon EMR best practices. <https://aws.amazon.com/elasticmapreduce/faqs>

### QUESTION 4

A user is testing a new service that receives location updates from 3,600 rental cars every hour.

Which service will collect data and automatically scale to accommodate production workload?



- A. Amazon EC2
- B. Amazon Kinesis Firehose
- C. Amazon EBS
- D. Amazon API Gateway

Correct Answer: D

#### QUESTION 5

A manufacturing company captures data from machines running at customer sites. Currently, thousands of machines send data every 5 minutes, and this is expected to grow to hundreds of thousands of machines in the near future. The data

is logged with the intent to be analyzed in the future as needed.

What is the SIMPLEST method to store this streaming data at scale?

- A. Create an Amazon Kinesis Firehose delivery stream to store the data in Amazon S3.
- B. Create an Auto Scaling group of Amazon EC2 servers behind ELBs to write the data into Amazon RDS.
- C. Create an Amazon SQS queue, and have the machines write to the queue.
- D. Create an Amazon EC2 server farm behind an ELB to store the data in Amazon EBS Cold HDD volumes.

Correct Answer: B

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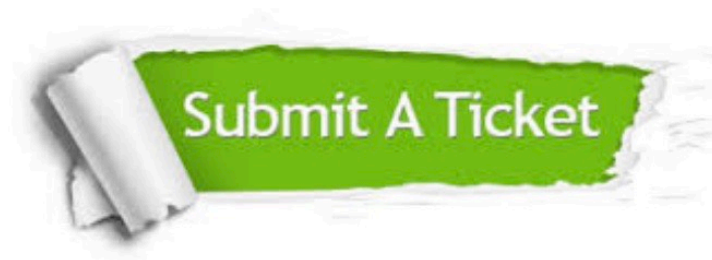
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