

Activity: All About Amazon EC2, Amazon S3, and DNS

Instructions: Refer to the following sites to complete the activity:

- Amazon EC2 Instance Types: <https://aws.amazon.com/ec2/instance-types>
- Amazon S3 Storage Classes: <https://aws.amazon.com/s3/storage-classes>

Item 1 (5 Marks)

What does an Amazon Elastic Compute Cloud (Amazon EC2) instance do?

Item 2 (10 Marks)

In the following table, list the five categories of EC2 instances and describe what each category is designed for.

Category	Designed for

Item 3 (10 Marks)

For each purpose that is listed in the following table, recommend the best category of EC2 instance type and explain your choice.

Purpose	Recommended EC2 Instance Type Category	Why?
Hosting a web server		
Multiplayer gaming		
Data analytics		
Speech recognition		

Item 4 (5 Marks)

Answer the following question: What is the Amazon Simple Storage Service (Amazon S3) used for?

Item 5 (20 Marks)

In the following table, describe what the different Amazon S3 storage classes are designed for.

Storage Class	Designed for
S3 Standard	
S3 Intelligent-Tiering	
S3 Standard-IA	

Storage Class	Designed for
S3 One Zone-IA	
S3 Glacier	
S3 Glacier Deep Archive	

Item 6 (20 Marks)

In the following table, recommend the best Amazon S3 storage class for each type of data and explain your choice.

Type of Data	Recommended Amazon S3 Storage Class	Why?
Mobile game data		
Disaster recovery data		
Data that may or may not be used often		
Media archives		

Item 7 (5 Marks)

Describe the purpose of a Domain Name System (DNS).

Item 8 (5 Marks)

Answer the following question: What is the difference between a static website and a dynamic website?

Item 9 (10 Marks)

EC2 Lab Completion Screenshot

Please add at least one screenshot of your final step in the lab report. The screenshot(s) should clearly demonstrate the completion of the lab task.

Item 10 (10 Marks)

S3 Lab Completion Screenshot

Please add at least one screenshot of your final step in the lab report. The screenshot(s) should clearly demonstrate the completion of the lab task.