To pass 80% or

1/1 point

Grade

## Congratulations! You passed!

**Latest Submission** 

	received 100%	Grade 100%	higher	
	Go to next item	Retake the assignment in <b>7</b>	h 58m	
1.	What is a crucial advantag	ge of cloud-based develo	oment environments?	1 / 1 point
	Always free			
	Only run on Windows	;		
	Reproducible development workflows			
		nments solve the "works	on my machine" problem.	
2.	What is AWS S3 storage?			1/1 point
	network storage			
	key-value database			
	O block storage			
	object storage			
	Correct  Amazon S3 is an ob buckets	ject storage service that s	tores data as objects within	

1 of 3 18/09/23, 00:48

**3.** What is the advantage of AWS Step functions?

<ul> <li>coordinate multiple AWS services to build and run applications quickly and easily</li> </ul>			
Run solutions on dedicated VMs			
They only use Powershell			
They require GPUs			
Correct Step Functions are a "visual workflow service that helps developers use AWS services to build distributed applications, automate processes, orchestrate microservices, and create data and machine learning (ML) pipelines."			
<b>4.</b> What are some advantages of Batch jobs in Data Engineering?	1 / 1 point		
☐ Well supported by frameworks and technology			
Solve most data engineering workflows (i.e. default choice)			
☐ Easy to schedule			
Simplicity			
Correct  Batch jobs are more straightforward than many other forms of data engineering, like streaming which introduces the complexity of real-time data.			
5. What is map-reduce?	1/1 point		
programming model			
omposed of map procedures			
includes a reduce method			
standard solution to big-data problems with disk and compute bottlenecks			

2 of 3 18/09/23, 00:48

## **⊘** Correct

Map-reduce is a programming model used to solve bottlenecks in big data problems by distributing the workload to multiple nodes, which can process data and then combine the results at the end of the operation.

18/09/23, 00:48 3 of 3