CONESTOGA
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INFO8625-23F-Clo...

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Group Project - Cloud Technologies

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Course: INFO8625-23F-Sec1-Cloud Technologies

Assignments → Group Project

Documentation Quality	Level 5 5 points	Level 4 4 points	Level 3 3 points	Level 2 2 points	Level 1 1 point
Clarity and Detail in Documentation					
Inclusion of Student Lab Configuration Sheet					

Group Name

Successful Migration on AWS	Level 5 5 points	Level 4 4 points	Level 3 3 points	Level 2 2 points	Level 1 1 point
Execution of Migration Plan					
Efficient Use of AWS Services					

provider. The goal is to create a modern, responsive, and secure e-commerce website

Website Functionality and Security	Level 5 5 points	Level 4 4 points	Level 3 3 points	Level 2 2 points	Level 1 1 point
Functionality and Responsiveness					
Implementation of Security Measures					
Scalability Strategies					
Cost Optimization Practices					

- Implement Amazon CloudFront as a CDN to optimize content delivery.

Total

Security:

- Secure the website with SSL/TLS certificates.

Overall Score

- Implement security groups and network ACLs to control inbound and outbound traffic.
- Explore AWS Identity and Access Management (IAM) for access control.

Scalability:

- Design the architecture to handle varying levels of traffic.
- Consider Auto Scaling for dynamic capacity adjustment based on

Level 5	Level 4	Level 3	Level 2	Level 1
35 points minimum Project objectives are clearly defined and closely aligned with the overall goals.	30 points minimum Project objectives are clear and mostly aligned with the overall goals.	25 points minimum Project objectives are somewhat clear and aligned with the overall goals.	20 points minimum Project objectives lack clarity or are misaligned with the overall goals.	15 points minimum Project objectives significantly goals.

demand.

Cost Optimization:

- Optimize resources and usage to minimize costs.
- Leverage AWS cost monitoring tools to track and manage expenses.

Deliverables:

- A fully functional e-commerce website hosted on AWS.
- Documentation detailing the migration process, security measures, and scalability considerations.(Use Student Lab Configuration Sheet)
- Presentation outlining design choices, challenges faced, and solutions implemented. The final hand-in is a short video presentation where the critical points of what you wrote about are presented in a PowerPoint document. It should be 5-10 minutes in length with the whole group part of it. You should be visible as well as your slide deck while presenting. A recorded Zoom session is fine.

Evaluation Criteria:

1. Documentation quality.
2. Presentation skills.
3. Successful migration and deployment on AWS.
4. Efficient use of AWS services.
5. Website functionality and responsiveness.
6. Security measures implemented.
7. Scalability and cost optimization strategies.

Due on Dec 4, 2023 11:59 PM

Attachments

📄 [Build a Static Website with Amazon S3 Activity.pdf](#) (650.21 KB)

📄 [building-a-scalable-and-secure-multi-vpc-aws-ne...](#) (3.28 MB)

📄 [Creating a Virtual Private Cloud Activity (1).pdf](#) (895.42 KB)

📄 [Launching and Configuring an EC2 Instance Activ...](#) (626.08 KB)

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Note: The activities evaluation will be applied to all members of this group.

Rubric Name: Group Project - Cloud Technologies

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