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Assignment: Project Two Conference Presentation: Cloud Development

Link to YouTube Video: <https://youtu.be/hpu3A9yhU2s>

PRESENTATION SCRIPT

Slide 1: Introduction Good day, everyone. I'm Juan Pablo Velasquez, and today I'm excited to share my experiences and insights on migrating a full stack application to a cloud-native web application using AWS microservices. In this presentation, I'll delve into the intricacies of cloud development, addressing both technical and non-technical audiences.

Slide 2: Containerization and Orchestration Containerization and orchestration are vital in the migration process. Let's explore the models used to transition our application to the cloud. We'll discuss the necessary tools for containerization and emphasize the value of Docker Compose. ![Screenshot of Docker Compose]

Slide 3: The Serverless Cloud Moving to a serverless architecture has clear advantages. We'll define "serverless," outline its benefits, and dive into S3 storage, comparing it with local storage. Additionally, we'll discuss the advantages of a serverless API, Lambda API logic, and the steps to integrate the frontend with the backend. ![UML diagrams]

Slide 4: MongoDB vs. DynamoDB Our data model transitioned from MongoDB to DynamoDB. I'll highlight the key differences and the queries performed during the migration process. ![Diagram and script snippets]

Slide 5: Cloud-Based Development Principles Elasticity and the pay-for-use model are crucial in optimizing cloud resources. We'll examine an AWS graph comparing Capacity vs. Usage to illustrate these principles.

Slide 6: Securing Your Cloud Application Security is paramount in the cloud. I'll outline strategies to prevent unauthorized access, explain the relationship between roles and policies, and share custom policies created. Additionally, I'll delve into securing the connection between Lambda and Gateway.

Slide 7: Lambda and the Database Our cloud-native application relies on Lambda functions and the S3 bucket. I'll showcase diagrams and script snippets to demonstrate their integration.

Slide 8: Three Key Takeaways In conclusion, let's revisit three key points. Our journey through cloud development emphasized containerization, serverless architecture, and robust security measures.

Slide 9: Thank You Thank you for joining me on this exploration of cloud development. I invite you to watch the complete presentation on YouTube [insert video link], where you can further engage with the content and gain deeper insights into the migration process.

Thank you.