

**ITNT304: Cloud Computing**

**Assignment**

**Case Study(Title)**

**“Cloud Migration Strategy of Rydyn advertising Company”**

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Ride-sharing startup Rydyn required web site to assist dispatch their benefit advertising. Not as it were did they require this site for marketing, but they required it to be versatile so it may be a stage for development, client back, and much more as they extended to numerous cities within the future.

This documentation of “ Thorn Techologies” (company) will examine the Presentation, physical engineering, virtualization, cloud movement procedure, cost-benefit investigation (ROI, etc.), and conclusion in this case ponder.

In the Introduction, we will discuss about the Current-Situation, Background, Available Infrastructure, and Requirements like Resilience, Scalability, availability, connectivity, performance, Redundancy, Thistle Innovations was entrusted with planning and creating Rydyn’s site and chose to control the location with AWS. The AWS components utilized included: Lambda – Reacted to API demands utilizing GraphQL and taken care of security by means of JSON Web Tokens API Door – Given secure REST endpoints connected to Lambda functions DynamoDB – Capacity for client information S3 – Have for the Respond website CloudFront – Decrease page reaction times and utilize custom SSL certificate Route 53 – Custom space mapping. These components were utilized in a serverless design to decrease sitting taken a toll whereas still being able to scale up to request immediately. Having that scaling capability at moo taken a toll was critical for a startup that may have request spikes.

Arrange Virtualization (NV) alludes to abstracting organize assets that were customarily conveyed in equipment to computer program. NV can combine numerous physical systems to one virtual, software-based arrange, or it can separate one physical organize into partitioned, autonomous virtual systems.

Cloud migration is the method of moving information, applications or other commerce components to a cloud computing environment. There are different sorts of cloud movements an endeavor can perform. One common show is the exchange of information and applications from a neighborhood, on-premises information center to the open cloud. Next, the document will discuss various cloud service models and recommends Platform as a Service (PaaS) as the service model most suitable for Thorn Tehologies.Platform as a service (PaaS) is a complete development and deployment environment in the cloud, with resources that enable you to deliver everything from simple cloud-based apps to sophisticated, cloud-enabled enterprise applications. You purchase the resources you need from a cloud service provider on a pay-as-you-go basis and access them over a secure Internet connection.

Thorn Technologies delivered Rydyn’s website on time and within budget. And the use of AWS technologies with a serverless architecture made the website lightning-fast, stable, and scalable at a low cost to run and maintain. Total benefit from the project = Increase in revenue from expansion  
Total benefit from the project = $ 250,000 + $ 30,000 = $ 280,000  
Total Cost from expansion = Salary of new employees + Cost of hiring + Cost of additional hardware and software