WIYAK Case Study:Core5

WIYAK, a leading ride-hailing and rental service provider in the Middle East, faced the challenges of limited scalability and security with its existing DigitalOcean infrastructure. Core5 Systems and Services, an AWS Advanced Tier Partner, stepped in to provide a robust and scalable solution, successfully migrating WIYAK's infrastructure to AWS.

About Wiyak: Transforming Transportation In Middle East

Ride-hailing Services
WIYAK offers on-demand rides, providing convenient and reliable transportation options for individuals and families.

Rental Services
WIYAK's rental services cater to diverse transportation needs, including bikes and chauffeur-driven cars, offering flexibility and convenience.

Cab Services
WIYAK provides hassle-free cab services, ensuring a comfortable and safe journey for customers, with a focus on reliability and customer satisfaction.

The Challenges Faced by WIYAK

Scalability Limitations

DigitalOcean's infrastructure couldn't keep pace with WIYAK's rapid growth, leading to performance bottlenecks and service disruptions.

Performance Bottlenecks

The existing infrastructure struggled to handle increasing data volumes and traffic, leading to slow response times and user dissatisfaction.

Security Concerns

WIYAK needed a more robust security solution to protect sensitive customer data and ensure compliance with industry standards.

Why AWS Was the Ideal Solution for WIYAK

1 **Global Reach**
AWS's global network of data centers ensured low latency and high availability for WIYAK's customers across the Middle East.

2 **Scalability s Flexibility**
AWS's pay-as-you-go model allowed WIYAK to scale its resources up or down as needed, optimizing costs and ensuring performance.

3 **Comprehensive Security Features**
AWS's robust security features, including VPC, IAM, and CloudWatch, provided enhanced control and visibility over WIYAK's infrastructure.

4 **Innovation s Growth**
AWS's comprehensive suite of services provided a platform for WIYAK to innovate and develop new features, accelerating business growth.

Why WIYAK Chose Core5 Systems and Services

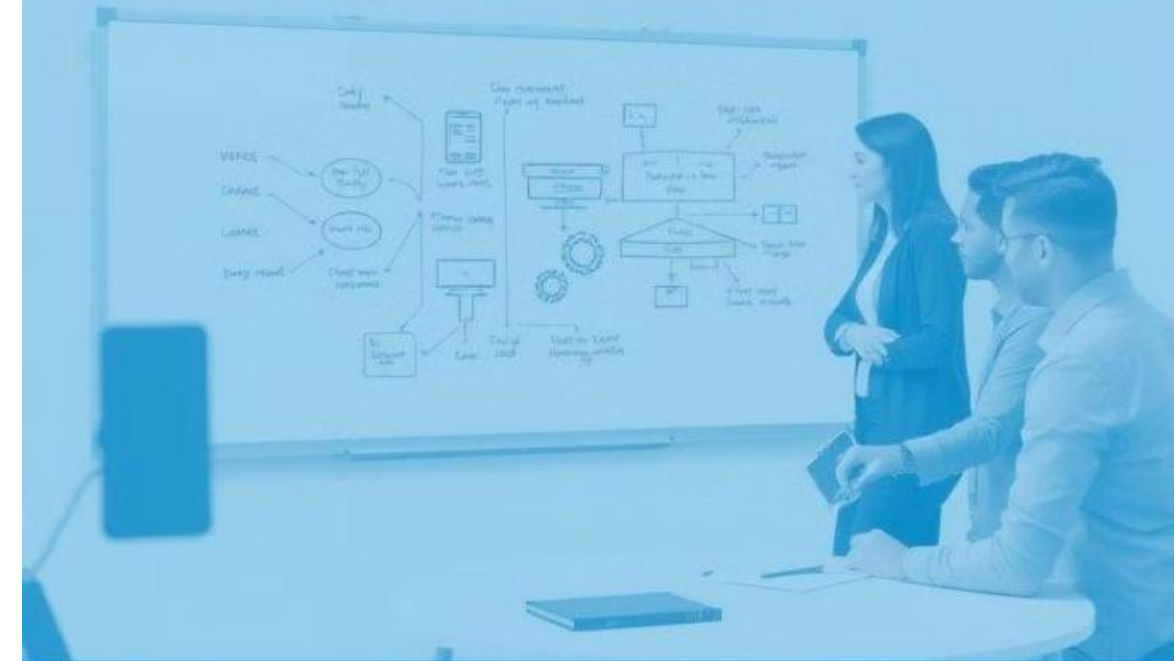|	
Expertise in Cloud Migration & Optimization	Core5's extensive experience in migrating complex workloads to AWS ensured a smooth transition for WIYAK.
AWS Advanced Tier Partner Status	Core5's deep understanding of AWS services and best practices enabled them to deliver a tailored solution for WIYAK.
Customer-Centric Approach	Core5 focused on understanding WIYAK's unique needs and providing a solution that aligned with their business goals.
Seamless Migration Execution	Core5's proven ability to execute complex migrations with minimal disruption was a key factor in WIYAK's decision.

Core5's Solution: A Scalable and Secure AWS Architecture

1 **Amazon EKS**

Core5 deployed Amazon EKS to manage and orchestrate WIYAK's microservices, ensuring scalability and efficient workload management.

2 **Amazon RDS**

Amazon RDS provided a scalable and managed relational database service for customer data and transaction histories, guaranteeing data durability and low latency.

3 **AWS DocumentDB**

AWS DocumentDB was implemented for handling non-relational data, supporting WIYAK's dynamic data requirements for booking preferences and customer profiles.
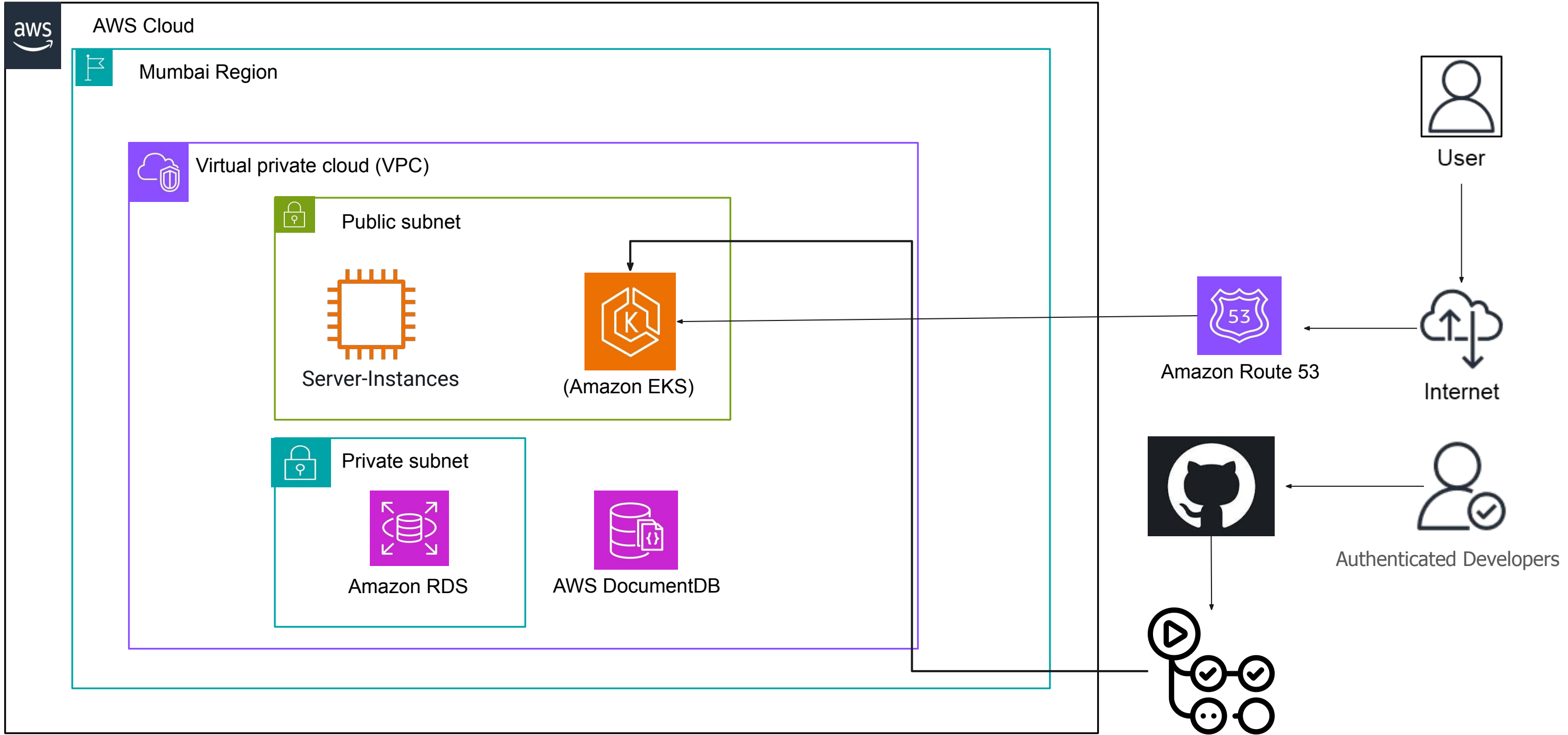
4 **Amazon Route 53**

Amazon Route 53 managed DNS routing, ensuring low-latency access and high availability for WIYAK's customers across different regions.

5 **VPC with Public s Private Subnets**

The VPC architecture with public and private subnets segmented traffic and secured sensitive data, providing enhanced security for WIYAK's infrastructure.

Architecture Diagram

Results and Benefits of the Cloud Migration

Improved Scalability

WIYAK's infrastructure now supports up to 5x the previous traffic without performance degradation, enabling them to handle future growth seamlessly.

Reduced Costs

By leveraging AWS's pay-as-you-go model and optimizing resource allocation, WIYAK achieved a 30% reduction in monthly operational costs.

Enhanced Security

The new architecture incorporates multi-layered security controls, ensuring the safety of customer data and meeting industry compliance standards.

Operational Efficiency

Automated deployments and monitoring using AWS CloudWatch reduced WIYAK's release cycle by 50%, enabling faster innovation and feature rollouts.

Next Steps: Exploring AI and Machine Learning Solutions

WIYAK and Core5 are continuing their partnership to explore the potential of AI and machine learning solutions on AWS. This will enable WIYAK to optimize ride demand forecasting, implement dynamic pricing models, and enhance customer experiences. The collaboration aims to leverage the power of AI to improve operational efficiency and drive further business growth.

About Core5 Systems and Services: Your Trusted AWS Partner

Core5 Systems and Services is a trusted AWS Advanced Tier Partner,
dedicated to providing businesses with tailored cloud solutions.

As a leading provider of cloud migration, infrastructure

optimization, and managed services, Core5 leverages its

expertise and deep knowledge of AWS to help businesses like

WIYAK achieve their goals and accelerate their digital

transformation journey.