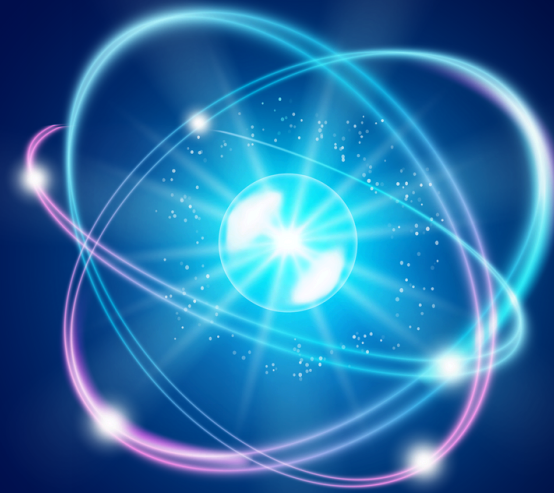


Secure and Scalable Azure Network for a Multi- Branch Retail Chain

"Unlock the power of Cloud Computing for endless innovation!" 🚀



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Team Members



Ahmed Gamal Abdel-Azeem

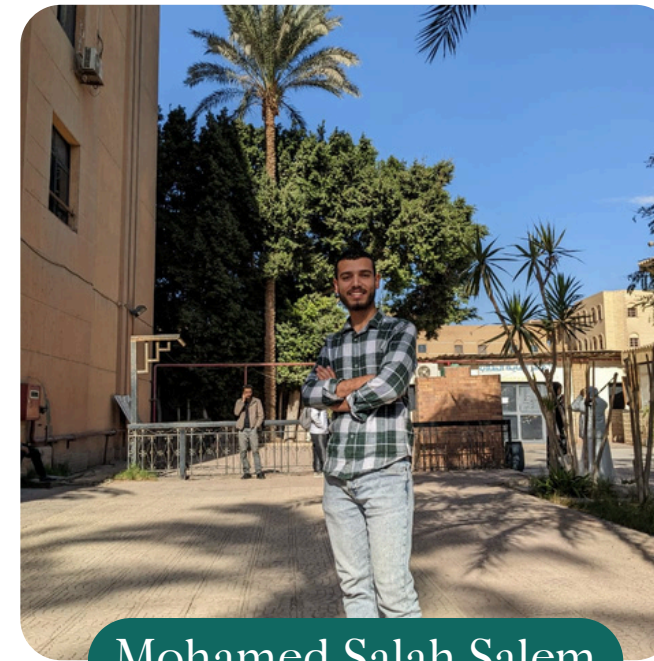
Team Leader

Enthusiastic college student passionate about networking and cloud computing. Skilled in designing scalable, high-availability solutions while maximizing performance and efficiency. Committed to building secure, resilient, and cost-effective Azure cloud infrastructures that align with business objectives and support future growth.



Yahya Ismail Ashour

Senior Computer Engineering student at Helwan university. My hands-on experience includes network configuration, Windows server management, and hardware troubleshooting, complemented by strong problem-solving skills and a proven ability to quickly master new technologies.



Mohamed Salah Salem

Final-year student at the Faculty of Engineering, majoring in Communications. I'm also a Junior Network Engineer and Cloud Engineer, passionate about modern networking technologies and cloud infrastructure.



Omar Ahmed Kamel

Senior Computer Engineering student at the British University in Egypt, with a strong interest in cloud computing, cybersecurity, and network design. Throughout my studies, I've focused on developing practical skills in Microsoft Azure, working on real-world projects that involve building secure and scalable cloud solutions.

Azure Services

- Virtual Network
- Virtual Machine
- Network Security Group
- Virtual WAN
- VPN Gateway
- Azure Firewall
- Load Balancer
- Application Gateway

Introduction

ShopEase is a global retail company with branch offices worldwide. Their e-commerce platform must deliver secure, fast, and reliable user experiences across the globe. The project goal is to build an Azure network that connects ShopEase's global VNets with on premises site, protects customer data, and optimizes traffic flow.

Business Challenges

1

Hybrid Connectivity

The company must securely connect its on-premises data center with Azure, allowing employees and branches to access resources.

2

Network Security

Protect sensitive customer data, transactions, and internal communications from cyber threats.

3

Performance Optimization

Ensure fast and reliable access to business applications, websites, and databases, even during high traffic.

4

Disaster Recovery & Redundancy

Minimize downtime and data loss in case of failures or cyberattacks.

Business Impact

1

Cost Efficiency

Reducing on-premises infrastructure costs and optimizing cloud expenses.

2

Improved Security

End-to-end encryption, DDoS protection, and firewall policies ensure data protection.

3

High Availability & Reliability

Load balancing and VPN connectivity keep business operations running smoothly.

4

Scalability

Azure's cloud-based networking allows the company to expand seamlessly.

Contact Our Team



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THANK YOU