



# Check My Universe® LLC

*Tech with Purpose and Impact*

Azure Security provides a comprehensive solution to ensure the confidentiality, integrity, and availability of patient information.

## Use Case

### **Executive Summary**

Aided by Check My Universe, the telemedicine industry has seen a significant rise in demand due to the COVID-19 pandemic. With the increased usage of telemedicine web applications, the importance of data security has become crucial. Azure Security provides a comprehensive solution to ensure the confidentiality, integrity, and availability of patient information.

### **Challenge**

A telemedicine web application needs to store and process sensitive patient information, including personal identification, medical history, and health records. The challenge is to ensure the security of this data from unauthorized access, breaches, or cyber-attacks. Additionally, the application must comply with data privacy regulations, such as HIPAA and GDPR.

### **Solution and Process**

Azure Security offers a wide range of services that can be leveraged to secure telemedicine web application. Here are some of the Azure Security services that we used for our client:

1. Azure Active Directory (Azure AD): Azure AD was used to manage user access and authentication to web applications. This ensures that only authorized users can access patient data.
2. Azure Key Vault: Azure Key Vault provides secure key management and storage for cryptographic keys used to encrypt patient data. This helps in ensuring the confidentiality and integrity of data.
3. Azure Security Center: Azure Security Center provides a unified security management solution that continuously monitors the application for potential security threats, vulnerabilities, and non-compliance with security standards. It provides actionable recommendations to remediate the issues.
4. Azure Firewall: Azure Firewall is a managed, cloud-based network security service that protects telemedicine web applications from unauthorized access and cyber-attacks.

### **Result**

: By implementing Azure Security, the telemedicine web application can achieve the following results:

1. Improved data security: Azure Security ensures the confidentiality, integrity, and availability of patient data, reducing the risk of data breaches and unauthorized access.

2. Compliance with regulations: The telemedicine web application can comply with data privacy regulations such as HIPAA and GDPR.
3. Reduced security threats: Azure Security Center continuously monitors the application for potential security threats, vulnerabilities, and non-compliance with security standards, providing actionable recommendations to remediate the issues.
4. Peace of mind: The telemedicine web application can provide peace of mind to patients by assuring them that their data is safe and secure.

*"I remember when we were tasked with ensuring azure security for our application, our main objective was to meet the high standards set by the chief medical officer and the company stakeholders," reminisced Vishnu K Agrawal, Head of Technology at Check My Universe, and a Certified AWS Solutions Architect. "We knew that our primary responsibility was to safeguard patient privacy and data in accordance with compliance regulations. To achieve this, we took several measures to fend off potential attacks. However, little did we know that the biggest challenge was yet to come. The game changer for our telemedicine company was the DDOS attack that hit us hard." says Vishnu Agrawala, Check My Universe, Head of Technology, and Certified AWS Solutions Architect*

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