HCLTech | Supercharging Progress™

Azure Cloud Security Foundation

Introduction

In today's digital era, businesses are rapidly migrating to the cloud, reaping the benefits of scalability, flexibility, and innovation. However, along with these advantages come significant security challenges. The vast array of options and native controls offered by various cloud providers, coupled with niche third-party solutions, can be overwhelming. Additionally, industry-specific security requirements and regulations further complicate the landscape. HCLTech, in collaboration with Microsoft, offers a comprehensive cloud security solution tailored to meet the unique security needs of your business, ensuring a secure and compliant cloud environment.

Key Cloud Security Challenges

Lack of visibility

One of the primary challenges in cloud security is the lack of visibility into resources that reside outside the corporate network. These resources often run on infrastructure not owned or directly managed by the organization, making it difficult to monitor and secure them effectively.

Misconfigurations

Misconfigurations of cloud security settings are a leading cause of data breaches. These errors can expose sensitive data and critical systems to unauthorized access, resulting in significant financial and reputational damage.

Insecure interfaces and APIs

Insecure interfaces and APIs can create vulnerabilities, allowing attackers to access and exfiltrate sensitive data. Ensuring the security of these interfaces is crucial to maintaining the integrity and confidentiality of your data.

Unauthorized access

Improperly configured security settings or compromised credentials can enable attackers to gain unauthorized access to your cloud environment. This access can lead to data breaches, data loss, and other security incidents.

Shared security responsibility

In the cloud, security responsibilities are shared between the cloud provider and the customer. This division of responsibility can make it challenging for enterprises to maintain a consistent and effective security posture across their cloud environments.
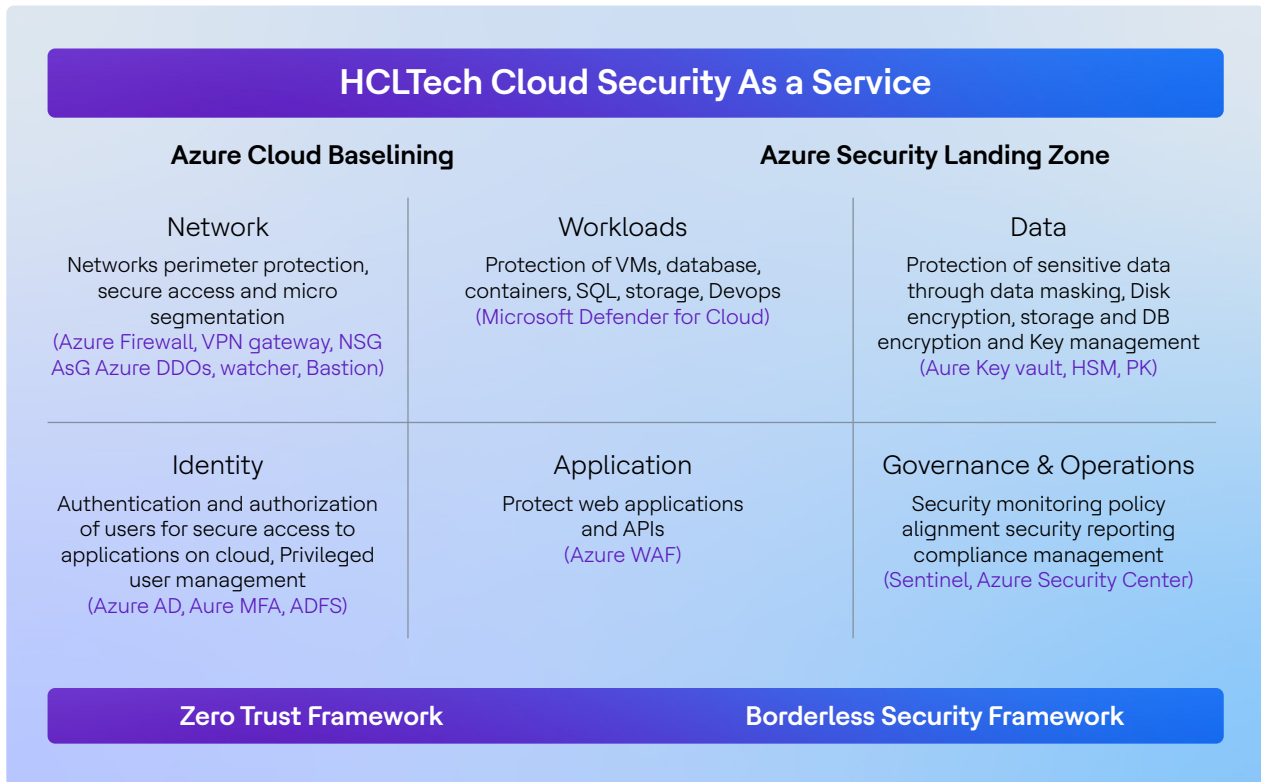
Multi-cloud management

Managing security in a multi-cloud or hybrid environment presents unique challenges. The absence of a definitive governance matrix can lead to inconsistencies in security policies and controls, increasing the risk of security breaches.

HCLTech Solution

HCLTech's Azure Cloud Foundation, part of the Cloud Security as a Service (CsaaS) offering, provides a robust solution to these challenges. Our solution includes the deployment and configuration of native security controls to ensure a secure cloud environment, guided by Zero Trust principles and a borderless framework.

HCLTech Cloud Security As a Service

Azure Cloud Baselining

Network

Networks perimeter protection, secure access and micro segmentation
(Azure Firewall, VPN gateway, NSG AsG Azure DDOs, watcher, Bastion)

Workloads

Protection of VMs, database, containers, SQL, storage, Devops
(Microsoft Defender for Cloud)

Azure Security Landing Zone

Data

Protection of sensitive data through data masking, Disk encryption, storage and DB encryption and Key management
(Aure Key vault, HSM, PK)

Identity

Authentication and authorization of users for secure access to applications on cloud, Privileged user management
(Azure AD, Aure MFA, ADFS)

Application

Protect web applications and APIs
(Azure WAF)

Governance & Operations

Security monitoring policy alignment security reporting compliance management
(Sentinel, Azure Security Center)

Zero Trust Framework   **Borderless Security Framework**

Consulting and Advisory

Our consulting and advisory services help organizations assess their cloud readiness and align their security policies with business goals. We provide comprehensive assessments against security regulations and compliances, ensuring that your cloud environment meets industry standards.

- **Cloud readiness assessment:** Evaluate your organization's readiness to adopt cloud technologies.

- **Cloud security policy assessment and alignment with business goals:** Ensure your security policies align with your business objectives.

- **ROI and benefit analysis:** Analyze the return on investment and benefits of cloud security measures.

- **Assessment against security regulations and compliances:** Ensure compliance with industry-specific regulations and standards.

- **Cloud security roadmap creation:** Develop a strategic roadmap for cloud security implementation.

Planning and Architecture

We provide detailed planning and architecture services to build a robust cloud security framework. Our experts design high-level and low-level architectures customized to your applications, hybrid setups, and specific requirements.

- **Cloud security architecture build:** Develop a comprehensive security architecture based on the HCLTech CSaaS framework.
- **HLD and LLD design:** Create high-level and low-level designs tailored to your unique needs.

- **Detailed project and migration plan:** Plan and manage your cloud migration project to ensure a smooth transition.
- **Migration risk assessment and mitigation plan:** Identify and mitigate risks associated with cloud migration.

Migration and Implementation

Our migration and implementation services ensure the secure deployment of cloud-native and third-party security controls. We establish secure access and connectivity for hybrid setups, integrating cloud security services with other third-party solutions and IT services.

- **Cloud native and third-party security control deployment:** Implement robust security controls to protect your cloud environment.
- **Establishment of secure access and connectivity:** Ensure secure connectivity for hybrid cloud setups.
- **Integration with third-party solutions:** Seamlessly integrate cloud security services with other solutions.

- **Integration with IT services:** Connect cloud security services with IT service management (ITSM) systems.
- **Use case and playbook creation:** Develop use cases and playbooks for effective security management.
- **Hypercare until smooth operations:** Provide intensive support to ensure smooth operations post-migration.

Managed Services

Our managed services offer continuous support and monitoring to maintain and improve your cloud security posture. We provide 24x7 security monitoring, security reporting, and automation of routine activities to optimize your cloud security resources.

- **24x7 Security monitoring:** Constantly monitor your cloud environment for security threats.
- **Security reporting:** Provide regular reports on your cloud security status.
- **Automation of L1 activities:** Automate routine security tasks to improve efficiency.

- **Cloud security resource optimization:** Optimize the use of security resources to reduce costs.
- **Continuous improvement in cloud security score:** Regularly assess and enhance your cloud security posture.

Value Delivered

HCLTech's Azure Cloud Foundation, part of the Cloud Security as a Service (CsaaS) offering, provides a robust solution to these challenges. Our solution includes the deployment and configuration of native security controls to ensure a secure cloud environment, guided by Zero Trust principles and a borderless framework.

1. **End-to-end support:** HCLTech offers comprehensive support for secure cloud migration and management, ensuring a seamless transition to the cloud.

2. **Enhanced compliance:** Our solutions help you adhere to security standards and regulatory requirements, reducing the risk of non-compliance.

3. **Seamless integration:** We ensure smooth integration of cloud security with your existing infrastructure, enhancing overall security.

4. **Visibility and reporting:** Our integrated reporting provides comprehensive visibility into your cloud security posture, enabling informed decision-making.

Capability

15+ Years of cloud security experience	**1000+** Certification	**2000+** Trainings
20+ Deployments	**6** CSFCs	**40+** Delivery centers

HCLTech, in partnership with Microsoft, ensures a secure, compliant, and efficient cloud environment tailored to your business needs. Embrace the future of cloud security with HCLTech and Microsoft Azure.

HCLTech | Supercharging Progress™

hcltech.com