Microsoft Azure Security Model Design

Design and Documentation of an Azure specific security model that fits within your organization's broader cyber security model.

Protiviti's Security and Privacy team are regularly helping clients to understand, make decisions on and document how they want to utilize Azure Security Services to support the wider organizational security model and technology direction. This offering is designed to help an organization articulate and take maximum benefit from the Azure platform and associated licenses so that the struggle to determine which method of securing each workload is avoided.

Azure offers an opportunity to focus your team's skills, budgets and time, as a large amount of Azure services can function in a multi cloud environment. This means you can focus your team's learning and development within a single eco-system of security tools.

Protiviti helps its clients to define the scope of each Azure security service by understanding the associated costs and impacts to current people, processes and technologies. The core output of this work is a roadmap to reach an optimized Azure security model that supports your business and technology goals while maintaining cost efficiency.

2020

Microsoft Partner of the Year Finalist
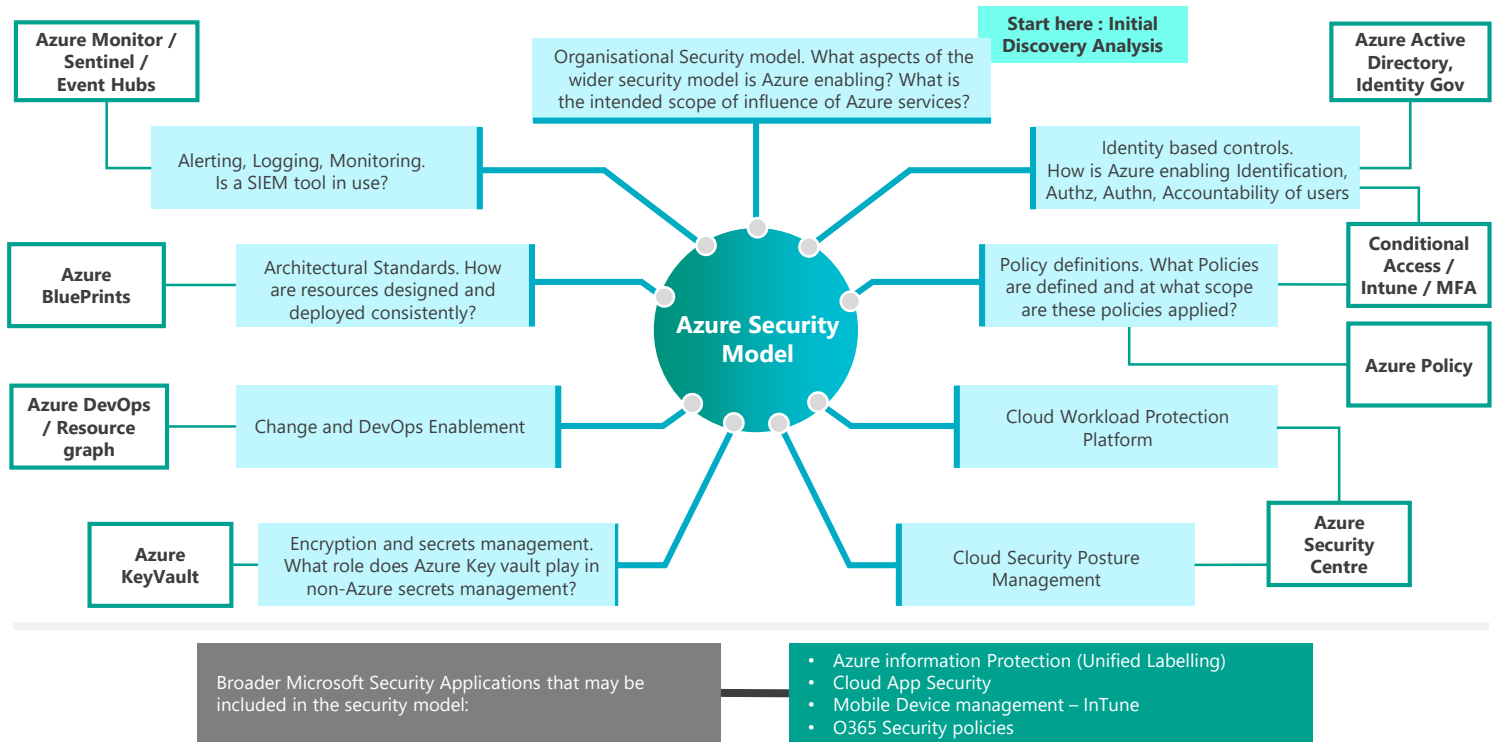
Client Problems We Solve

- Duplicative and underused security tools

- A lack of automation of security policies

- A lack of understanding of the full set of Azure's security toolset

- Lack of unified multi cloud security approach that supports the broader security model

Business Outcomes

- Clear unambiguous security and governance of Azure workloads

- Operational and cost optimization of security tooling and staff

- Automation of operational and security policies to enable change and compliance to keep pace with high velocity IT operations

- Roadmap to better security alignment with the broader technology strategy of the business.

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Azure Security Services refers to the Azure services that can be utilized to support your security model. These services are highlighted in light blue in the infographic below.

Start here : Initial Discovery Analysis

Azure Monitor / Sentinel / Event Hubs

Azure Active Directory, Identity Gov

Organisational Security model. What aspects of the wider security model is Azure enabling? What is the intended scope of influence of Azure services?

Alerting, Logging, Monitoring. Is a SIEM tool in use?

Identity based controls. How is Azure enabling Identification, Authz, Authn, Accountability of users

Azure Security Model

Azure BluePrints

Architectural Standards. How are resources designed and deployed consistently?

Policy definitions. What Policies are defined and at what scope are these policies applied?

Conditional Access / Intune / MFA

Azure Policy

Azure DevOps / Resource graph

Change and DevOps Enablement

Cloud Workload Protection Platform

Azure KeyVault

Encryption and secrets management. What role does Azure Key vault play in non-Azure secrets management?

Cloud Security Posture Management

Azure Security Centre

Broader Microsoft Security Applications that may be included in the security model:

- Azure information Protection (Unified Labelling)
- Cloud App Security
- Mobile Device management – InTune
- O365 Security policies

Client Success Story

Client Challenge: The client had a large digital estate compromising AWS infrastructure, On premise VMware resources and a large Azure digital estate. The client had a convoluted set of security tools and limited resources to manage this broad toolset. They needed to identify ways to optimize their toolset and focus their team's time and skillset. Azure was identified as the strategic platform and the desire was to make greater use of the Azure services available.

Solution Delivered: Protiviti assisted by identifying the opportunities and constraints of making broader use of Azures Security Services, and the impact these changes would have on costs, people and processes. The output was a well-defined future state Azure security model and accompanying implementation roadmap.

Value & Results: The client realized operational efficiencies and cost savings as they were able to focus their cloud operations team on a single ecosystem of tools, reduce license costs by dropping nonessential security tooling and focus people development on a single technology stack.

Protiviti.com/Microsoft

MicrosoftSolutions@protiviti.com

TCblog.Protiviti.com

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