Barracuda Security Solutions for Microsoft Azure

Accelerating Your Journey to a Safe Cloud

Microsoft

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DiGITAL SIMA

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Microsoft + **Barracuda**®
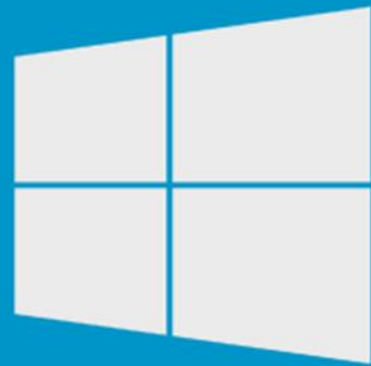
Migrating to the Cloud?

Prepare for These Common Challenges:

Security, privacy, and compliance concerns

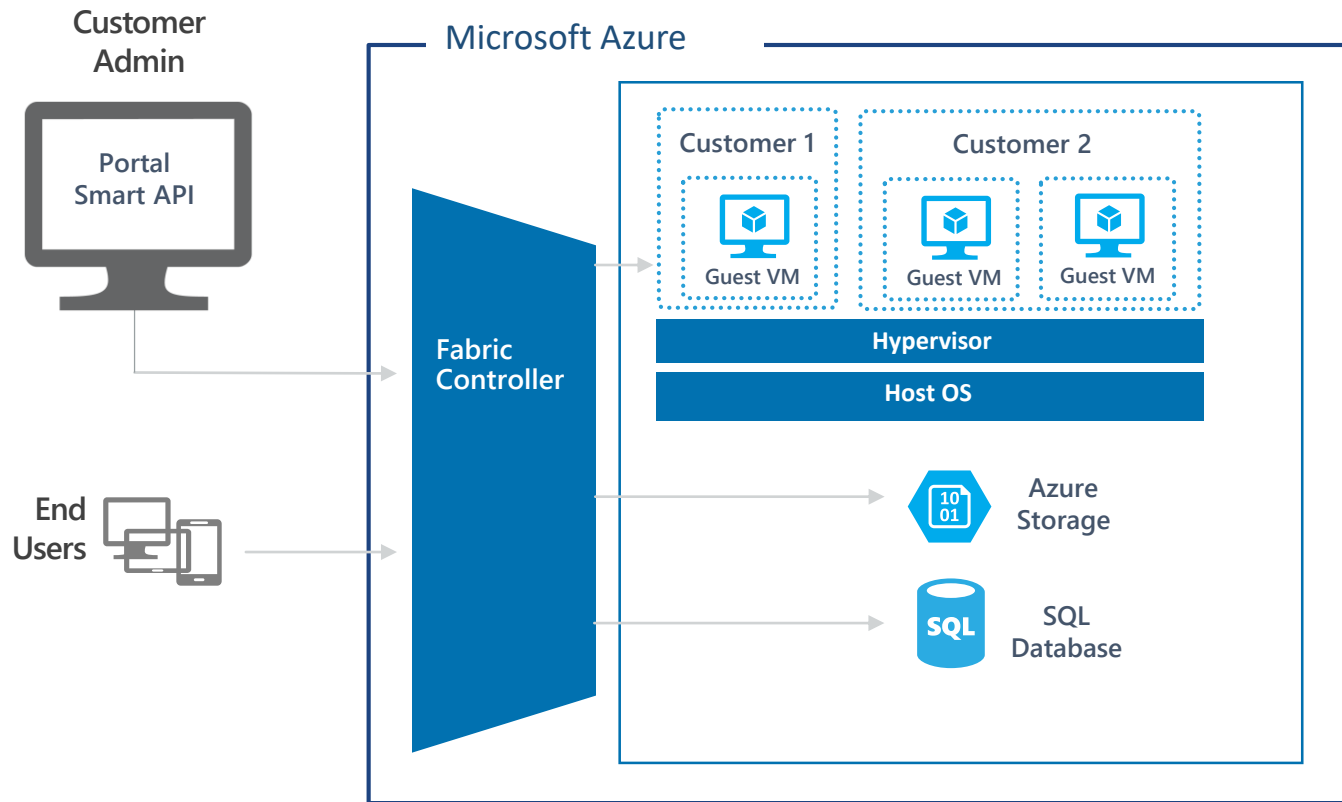Managing mission-critical or development workloads

Complexities of migrating your physical data center to Microsoft Azure

Vulnerabilities to mobile and Bring-Your-Own-Devices, web 2.0 applications, and remote network users

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Secure Multi-tenancy

Customer Admin

Portal Smart API

End Users

Microsoft Azure

Fabric Controller

Customer 1 — Guest VM

Customer 2 — Guest VM — Guest VM
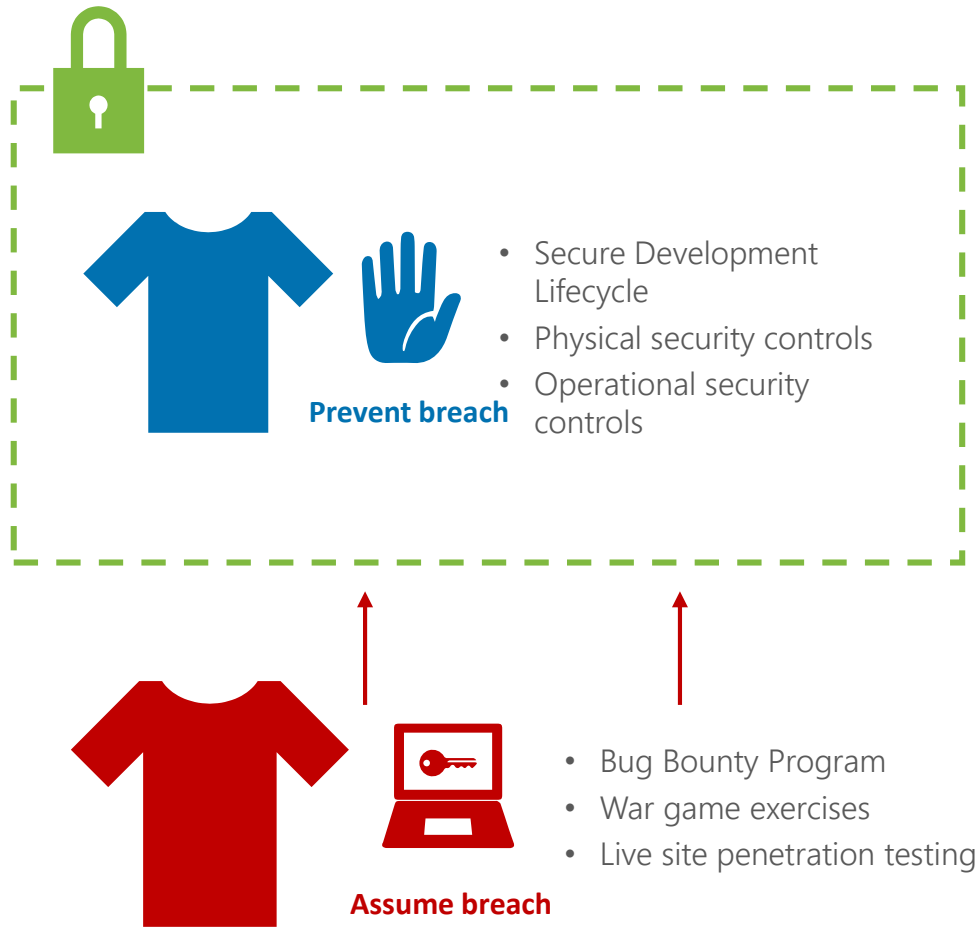
Hypervisor

Host OS

Azure Storage

SQL Database

✓ Isolates customer environments using the Fabric Controller

✓ Runs a configuration-hardened version of Windows Server as the Host OS

✓ Uses Hyper-V – a battle tested and enterprise proven hypervisor

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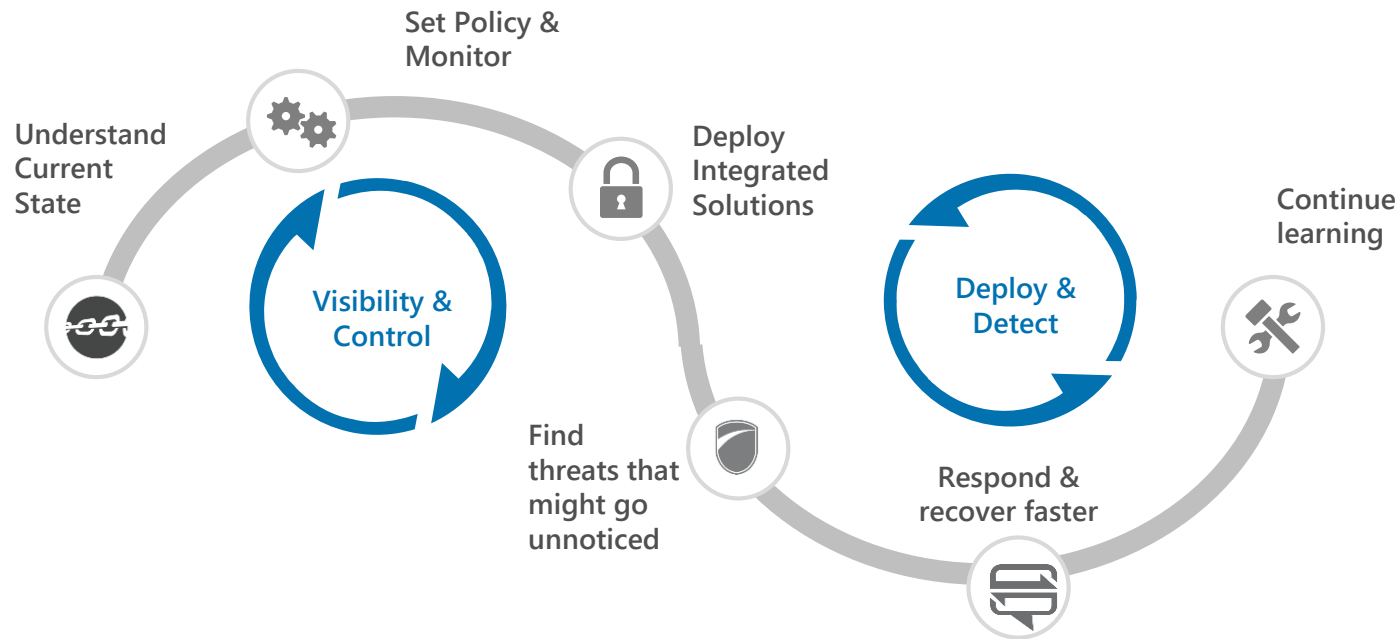Barracuda

DDoS Defense System
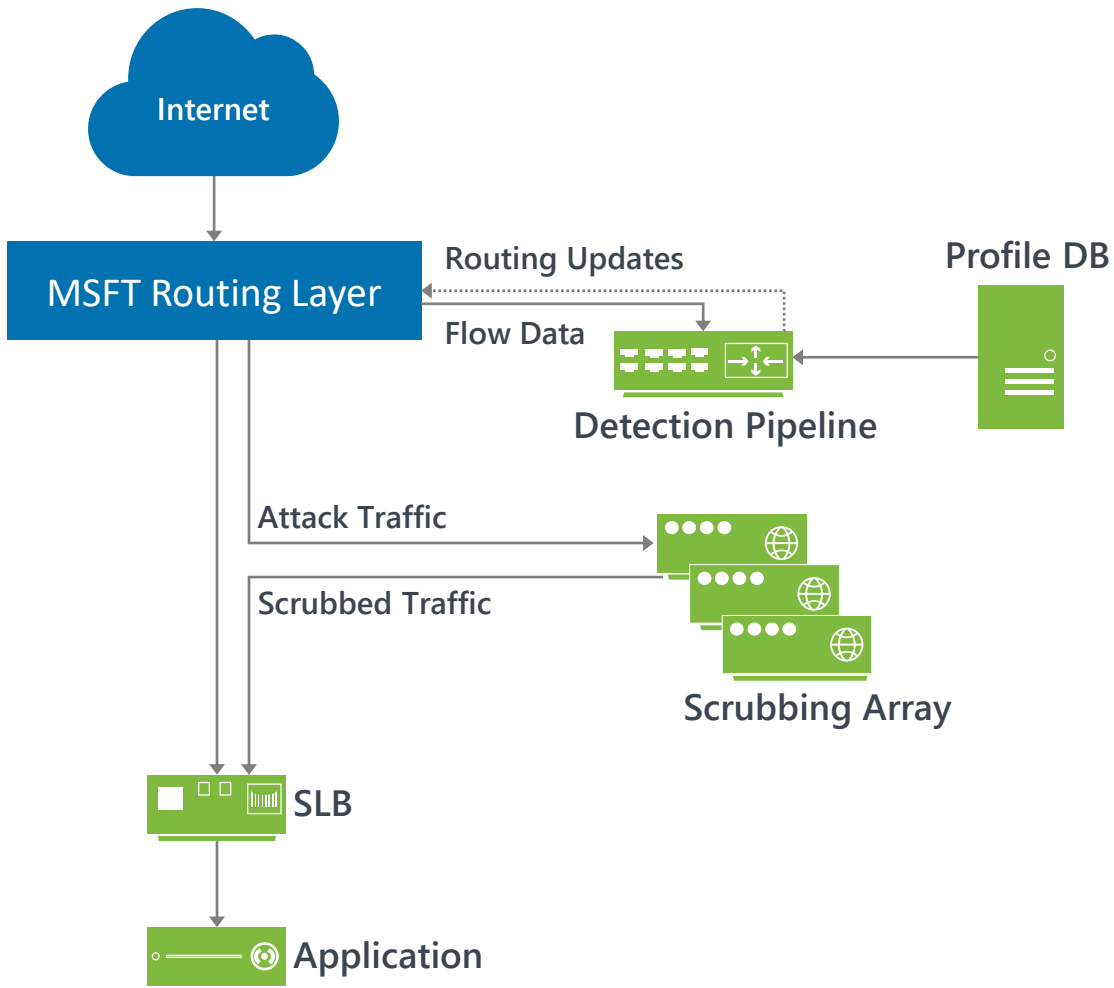
- ✓ Azure's DDoS defense system is designed not only to withstand attacks from the outside, but also from within.

- ✓ Azure monitors and detects internally initiated DDoS attacks and removes offending VMs from the network

Prevent & Assume Breach

Prevent breach

- Secure Development Lifecycle
- Physical security controls
- Operational security controls

Assume breach

- Bug Bounty Program
- War game exercises
- Live site penetration testing

✓ **Prevent Breach** is a defensive strategy aimed at predicting and preventing a security breach

✓ The **Assume Breach** strategy, unique to Microsoft, is a key operational practice that hardens cloud services

    ✓ Leverages Microsoft's vast threat intelligence

    ✓ Includes state of the art security monitoring and response

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Azure Security Center

Understand Current State

Set Policy & Monitor

Deploy Integrated Solutions

Visibility & Control

Find threats that might go unnoticed

Deploy & Detect

Continue learning

Respond & recover faster

✓ Gain visibility and control

✓ Integrated security, monitoring, policy management

✓ Built in threat detections and alerts

✓ Works with broad ecosystem of security solutions

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Customer's Responsibility in a Shared Security Model

Microsoft Azure
Certified

Your company

Customer Applications & Content

| Network Security | Identity & Access Control | Operating Systems / Platform | Data Encryption |

You define controls and security **IN** the Cloud

Microsoft Azure

Azure Platform

| Physical Infrastructure | Network Infrastructure | Virtualization Layer |
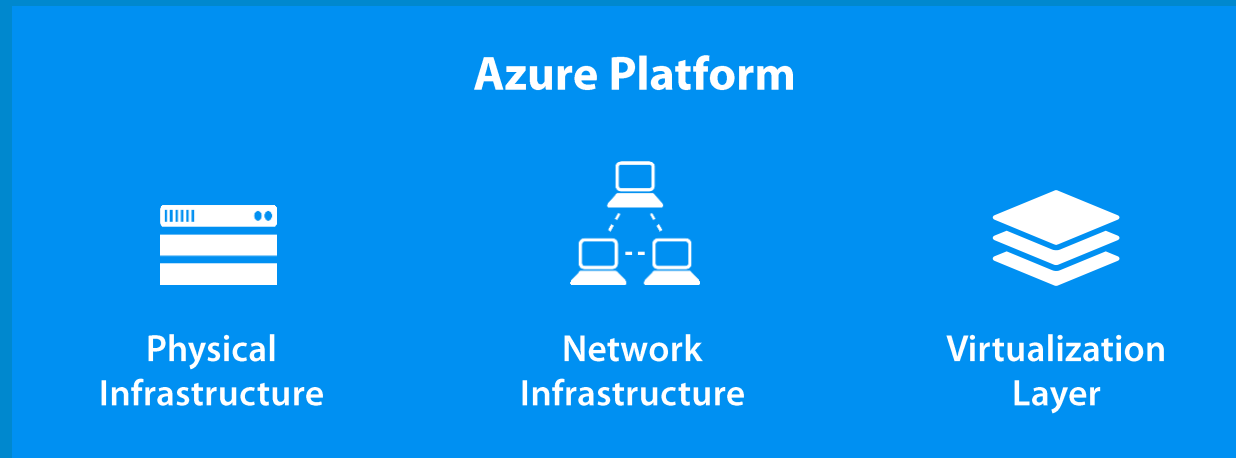
Azure takes care of the Security **OF** the Cloud

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Barracuda was the first Microsoft Azure Certified security solution provider

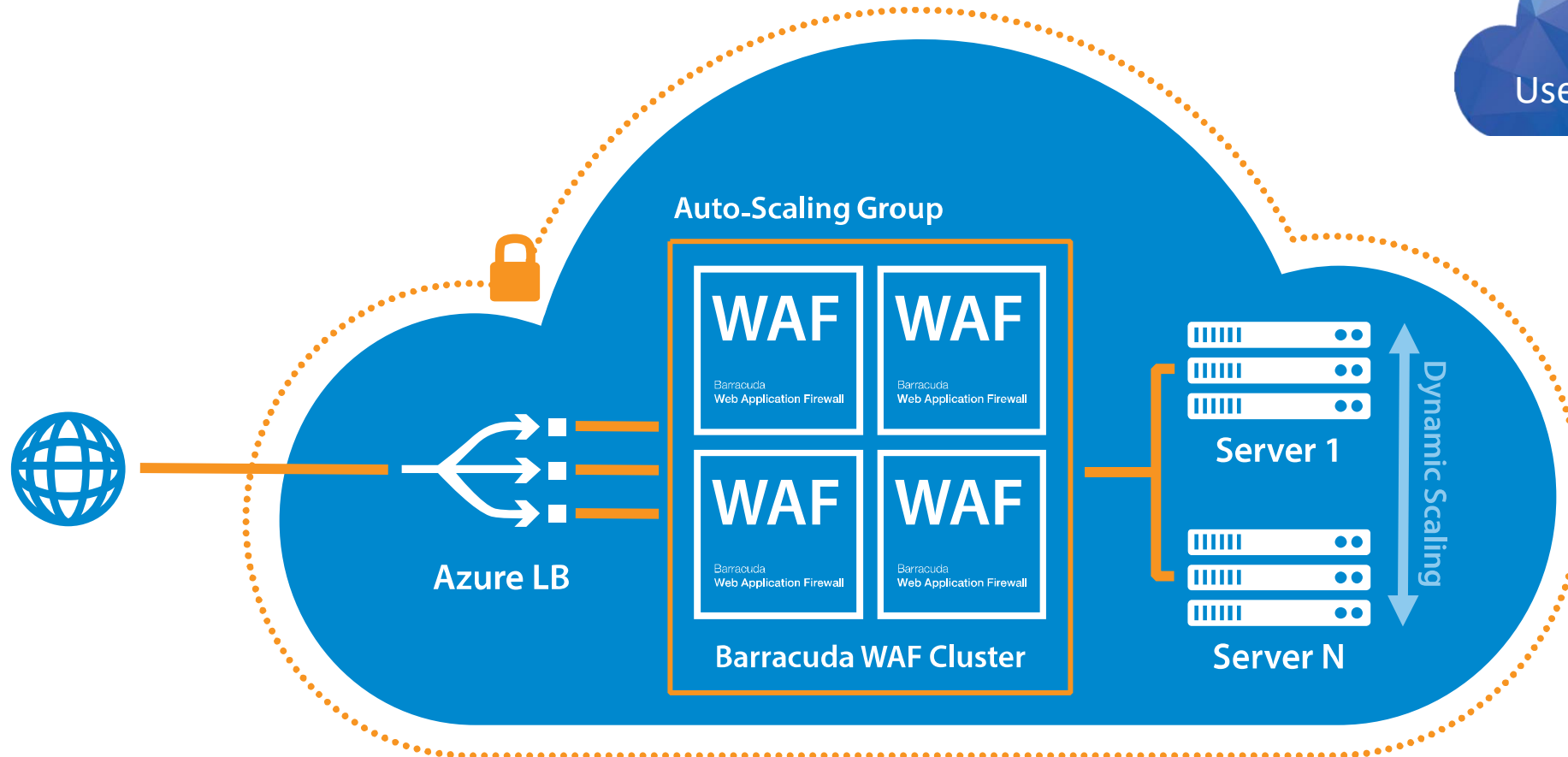2016 Microsoft Azure Certified ISV Solution Partner of the Year award
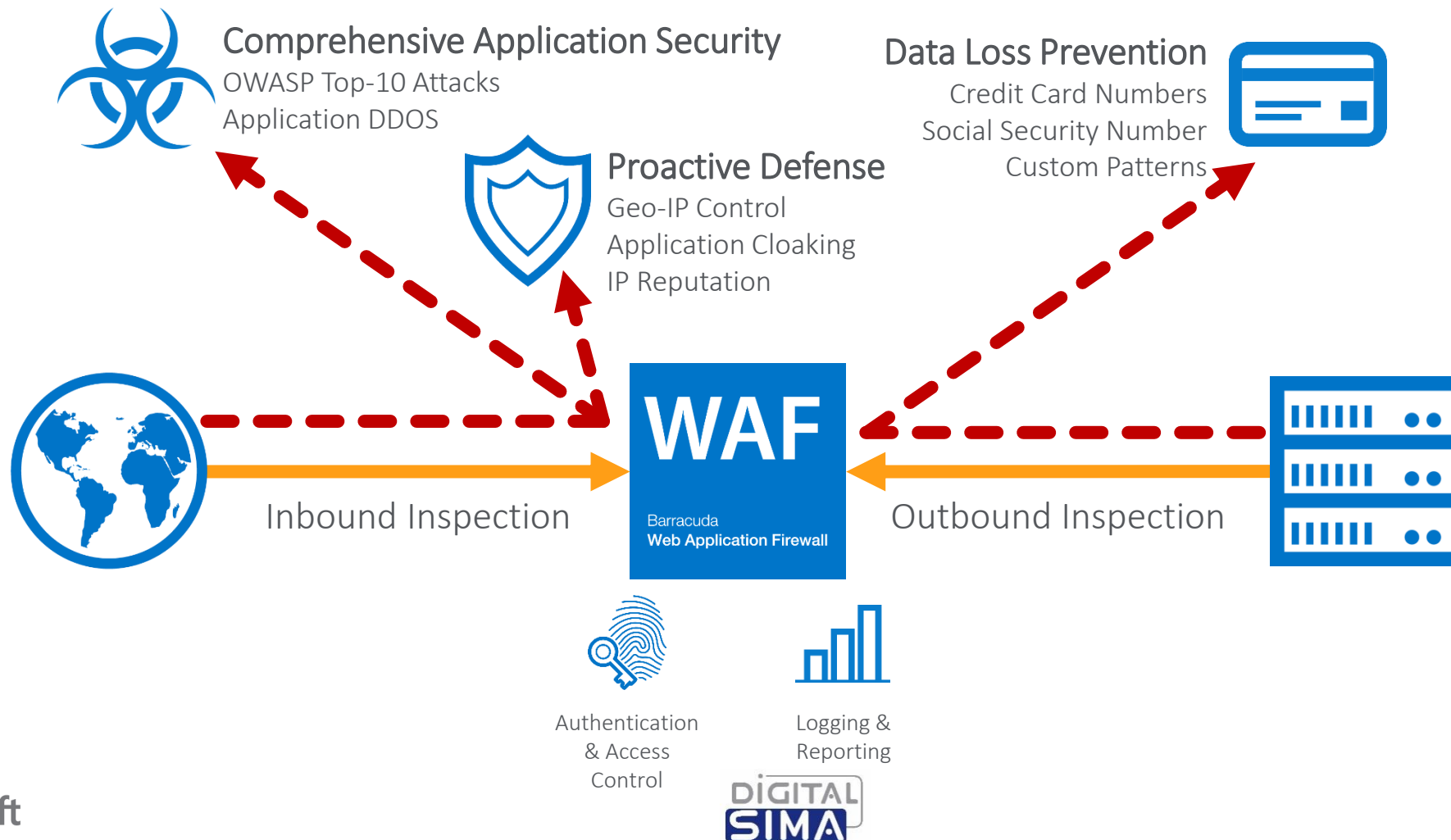
Dynamic Scaling in Azure
Protect Multiple Applications with Single Cluster of WAFs

Most Common Use Cases

Application Security

Protecting custom apps from SQL injection, cross-site scripting, application distributed denial-of-service (DDoS)

Azure AD Integration

Azure Active Directory integration for identity and access management for the cloud

ADFS

Microsoft Active Directory Federation Services (ADFS) can provide security as well as pre-authentication

Load Balancing

Load balancing with persistence for highly secure and scalable application infrastructure

Data Loss Prevention

Inspecting all inbound traffic for attacks and outbound traffic for sensitive data

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The Barracuda Advantage

Application Security

- OWASP Top 10 and beyond
- Application DDoS
- Positive Security Model
- Integrated Anit Virus
- Vulnerability scanner
- Data Loss Prevention

High Availability - Scaling

- Load Balancing - Session Persistence
- SSL-Offloading, Caching
- Active/Active, Active/Passive cluster
- Automatic Configuration Sync across WAF clusters
- Dynamically Registers Servers as you Scale

Identity and Access Management

- Authentication & Authorization
- Single Sign On
- SSL Client Certificates
- One Time Passwords

IDENTITY CARD
John W. Smith
date 08/10   0063 7543

Compliance

- comply with PCI-DSS, NIST SSL/TLS guidelines and regulations such as HIPAA
- ICSA certified

ICSAlabs
CERTIFIED
Excellence in Information
Security Testing Award

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