

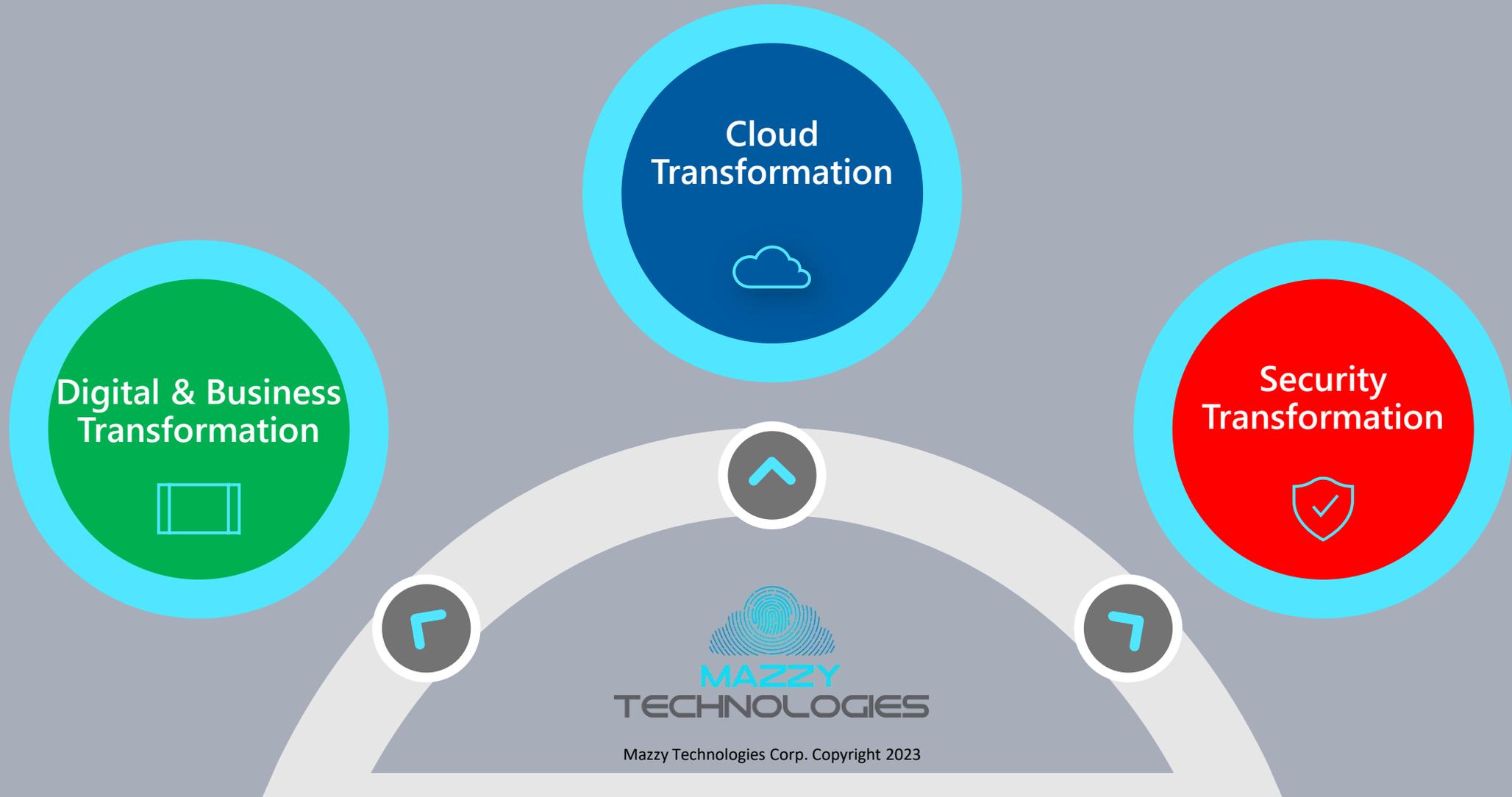
Azure Penetration Testing

Know your vulnerabilities...



Transformation

As the world goes through amazing transformation so are enterprises and governments.




MAZZY
TECHNOLOGIES

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Transformation requires Security Transformation

In modern-day enterprises & governments, there has been a growing transition to cloud-based environments and IaaS, PaaS, or SaaS computing models. The dynamic nature of infrastructure management, especially in scaling applications and services, can bring several challenges to organizations when adequately resourcing their departments. These as-a-service models give organizations the ability to offload many of the time-consuming, IT-related tasks.

As companies continue to migrate to the cloud, understanding the security requirements for keeping data safe has become critical. While third-party cloud computing providers may take on the management of this infrastructure, the responsibility of data asset security and accountability doesn't necessarily shift along with it.

By default, most cloud providers follow best security practices and take active steps to protect the integrity of their servers. However, organizations need to make their own considerations when protecting data, applications, and workloads running on the cloud.

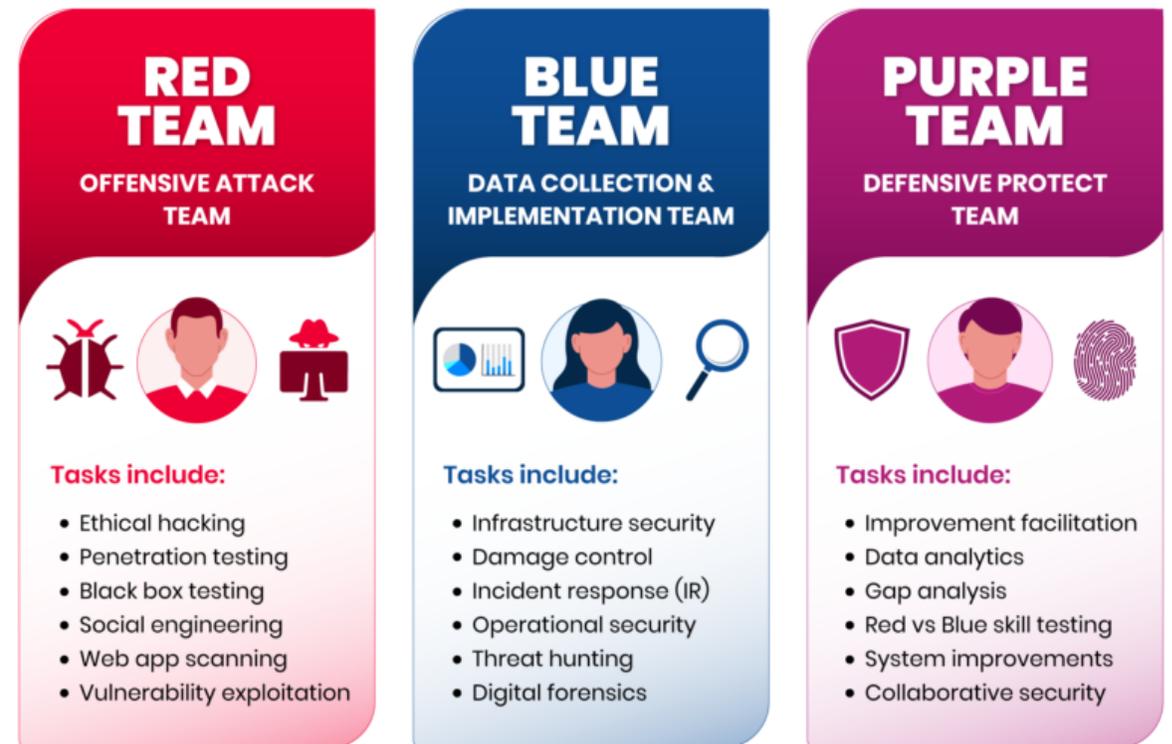
Security threats have become more advanced as the digital landscape continues to evolve.

Whether it is for compliance/regulations purposes or just piece of mind, know the risks with MT's Vulnerability Assessment and Azure Penetration Testing combination.

*Note this specific solution just includes Azure Penetration Testing, contact MT for details on other services

A Multiteam Protection is Necessary

Mazzy Technologies Red teams will utilize Pen Testing to attempt to defeat corporate cybersecurity controls – as would a malicious hacker – to find cybersecurity weaknesses and implement fixes before real hackers can exploit them.



*Please contact MT for additional services if needed across teams

Out of Scope Areas (Prohibited by Microsoft)

- Scanning or conducting tests on other Azure customer assets
- Accessing data that is not completely self-owned
- Conducting any DDoS attacks
- Conducting any intensive network fuzzing against Azure virtual machines
- Any tests that generate a huge amount of traffic through automated testing methods
- Attempt phishing or any social engineering attacks on Microsoft's employees
- Utilizing any services that violate the acceptable usage policies as mentioned in the online usage terms

In Scope as per Microsoft

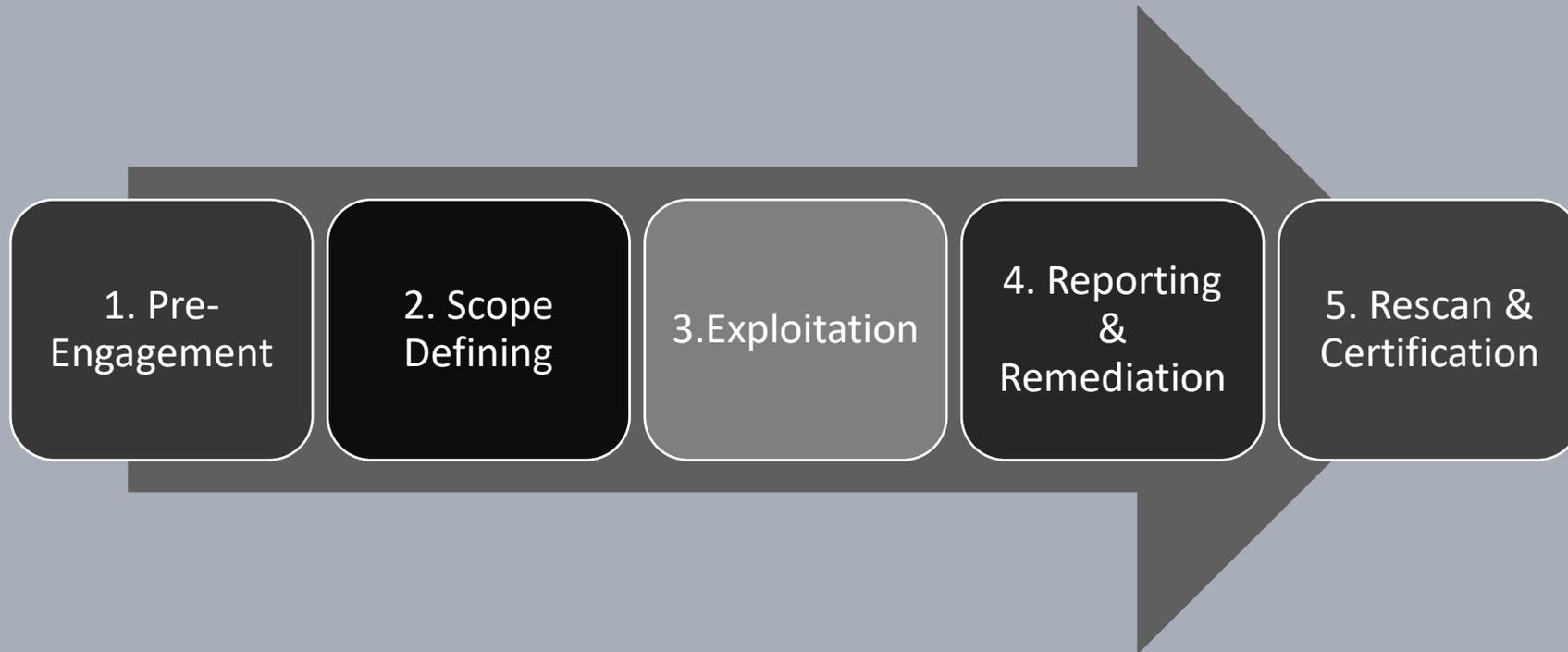
- Create multiple test or trial accounts to test cross-account access vulnerabilities.
- Running vulnerability scanning tools, performing port scans, or fuzzing on your virtual machine.
- Testing your account by generating traffic that is expected to match regular working periods and can also include surge capacity.
- Try to break out of Azure services to access other customer assets. If any such vulnerability is found, you should inform Microsoft and cease any further tests.

Penetration Testing Frameworks & Methodologies

Mazzy Technologies aligns the framework based on your business

- (ISSAF) Information System Security Assessment Framework
- (NIST) The National Institute of Standards and Technology
- (PTES) Penetration Testing Methodologies and Standards
- (OSSTMM) Open-Source Security Testing Methodology Manual
- (OWASP) Open Web Application Security Project

External Penetration Testing Methodology



Defining security objectives & outcomes

Recognizing assets that would undergo the test

Simulating attacks on the system

Document the findings and working on fixing

Testing the fixes and issuing pen-test certificate

Most common Azure Services that will be Attacked

App Services

Storage Accounts

Automation Accounts

Key Vaults

Azure SQL

Virtual Machines

Azure Contain Registry / Azure Container Instances

Services within Scope

Security and Management



Azure Portal



Active Directory



Management Groups



Subscription



Automation



Key Vault

Hybrid Operations



AD Health



Identity Governance

Web and Mobile



Function App



API Apps



Web Apps

Compute



Virtual Machine



Containers

Storage



Blob Storage



Azure Files

Data



SQL Server



Cache Redis



Azure Cosmos DB

Networking



Virtual Network



DNS Zones



VPN Gateway



Express Route



Load Balancer



Firewall

Azure Penetration Testing Scopes

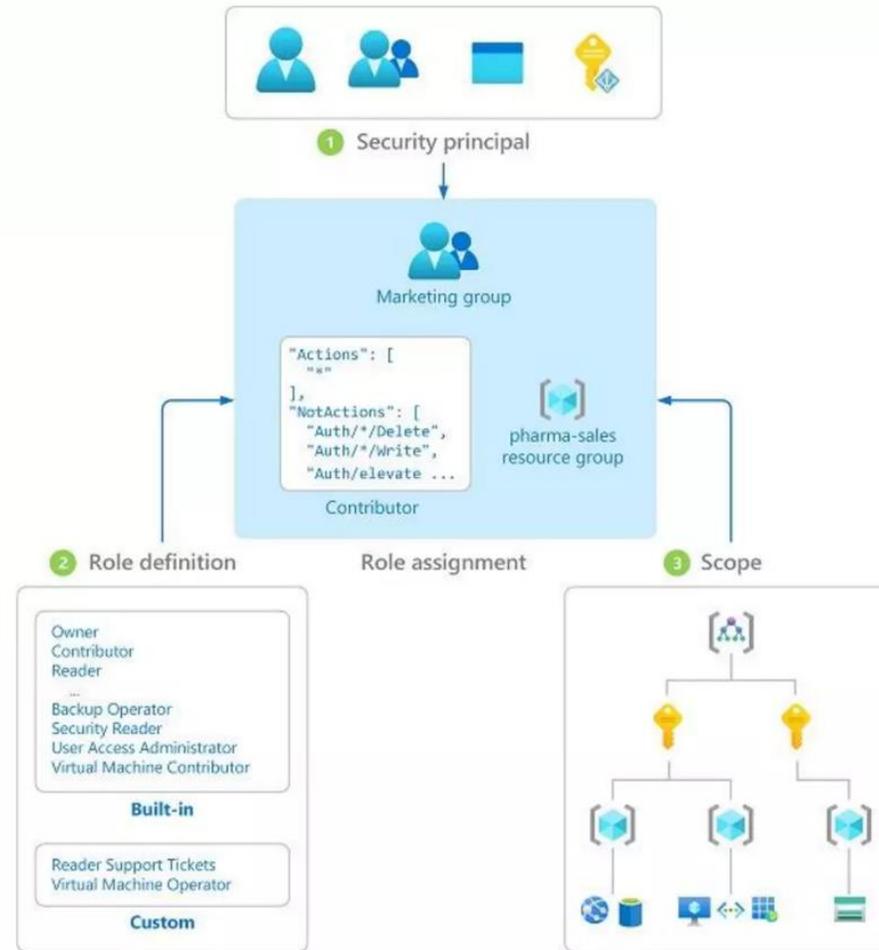
Anonymous external testing

Read-only configuration review

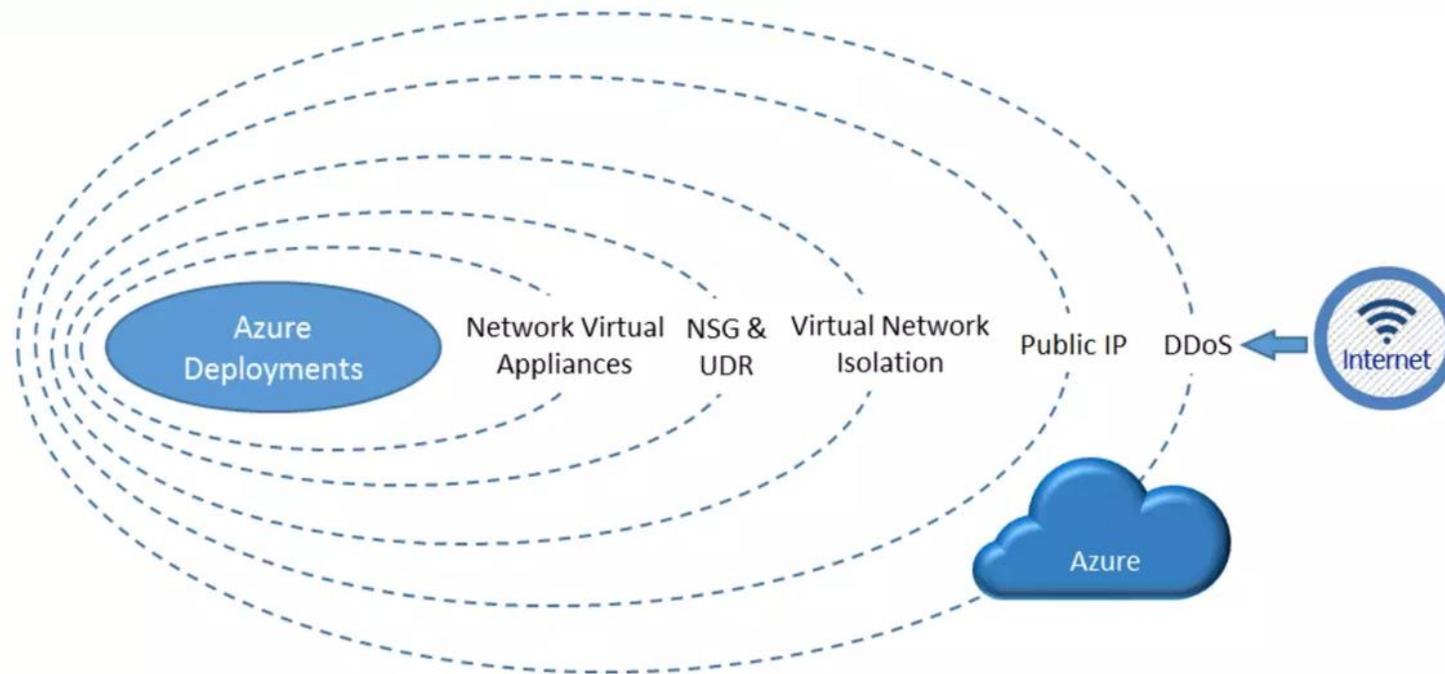
Internal network testing

Architectural review

Assessing Azure Cloud Services



Securing the Database



Azure Penetration Testing Tools

Windows or Linux administration tools

- JQ, httpie, wget, curl, unzip, powerShell etc...

General Penetration testing tools

- Gobuster, nmap, dnsenum and hydra

Azure specific Penetration testing tools

- Microbus, Lava, Koboko, PowerZure, Stormspotter, and BloodHound

Thank you!

Contact us:

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