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EPAM Azure Security Assessment

March 2024

Cloud – a New Security Paradigm

Tech Landscape Evolution

Technology around us is changing rapidly. The introduction of novel technologies is mostly driven by a huge push to automation and scalable deployment of services in the industry. Cloud is a new normal.

IT Threat Evolution

Cyber attacks are becoming increasingly complex and frequent, with machine-based algorithms expected to become the primary threat actors in the future, evolving quickly, based on the massive amount of usable data, and aiming at **infrastructure and services complexity and granularity**.

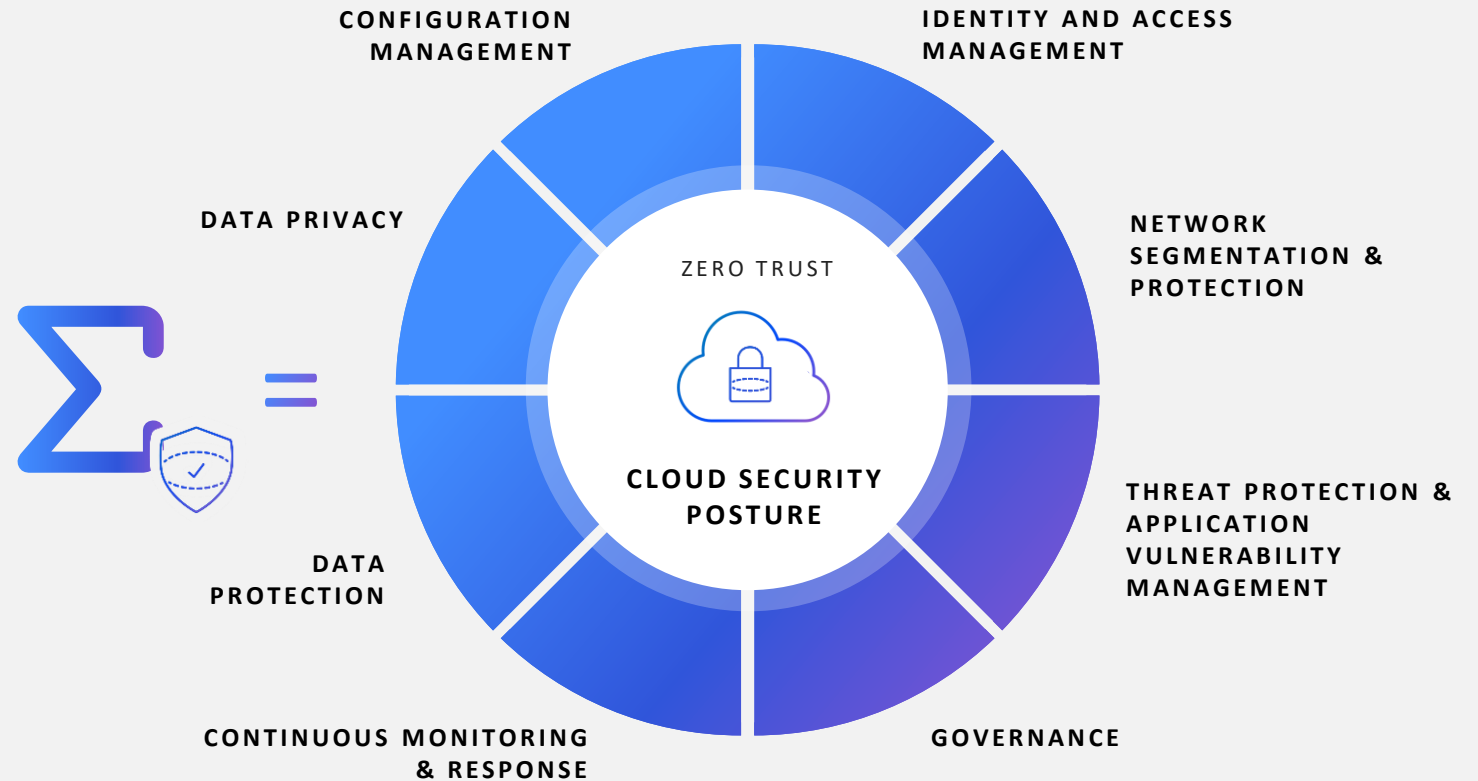
Analytical Usage Risks

Analytical data usage is growing. Analytical usage conflicts with the current security model applied on the operational systems. Data Analysts typically want to get access to all data and multiple data sets. Cloud is there to support this trend – but with this, a new risks paradigms emerge.

Our Approach to Cloud Security — Security by Design

Holistic approach to security and privacy in the cloud looks at the entire ecosystem of living controls from the conception to run-time.

Our Security by Design approach infuses security and privacy into Cloud DNA at every step of the way and in line with all the applicable regulatory requirements.



Our Approach Combines Data, Organization, Processes, and Technology Views



Cloud Security Program Starts with Assessment

- Cloud security assessment
- Quick wins
- **Continuous Cloud Security Posture Management**
- Integrate security activities in SDLC, infrastructure and applications architecture, application security, security testing
- Auto remediation
- **Monitoring solution & SIEM & Security Operations Center**
- Governance solution, centralized dashboards
- Security certification / attestation readiness & preparation



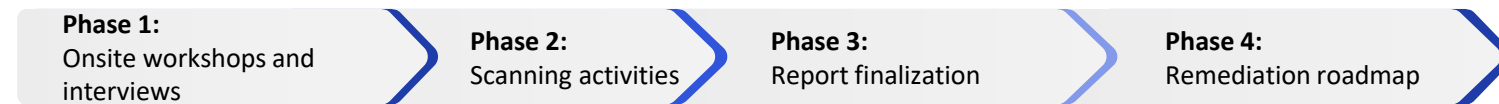
Azure Security and Governance Assessment

Our approach to Azure security assessment is a Managed Cloud Security and Compliance Assessment. We start with the baseline assessment and continue with an iterative, continuous assessment providing ongoing posture management

Baseline Cloud Security Assessment

4-phase engagement includes:

- Assets Discovery
- Workshops and interviews with SMEs and Stakeholders
- Architecture assessment against security best practices
- Documentation review and cross-check against implementation
- Infrastructure security automation assessment
- Analysis of results: impact evaluation, verification and prioritization of findings
- Remediation roadmap preparation
- Workshop with insights based on results and recommendation



Iterative (Continuous) Security Assessments

The subsequent assessments would focus on a limited scope of change between releases

- New Assets Discovery
- Workshops and interviews with SMEs and Stakeholders
- Architecture assessment against security best practices
- Documentation review and cross-check against the implementation
- Infrastructure security automation assessment
- CI/CD and SDLC assessment

Deliverables

- Approved scope and requirements agreement
- Approved assessment plan
- Assessment report answering the questions:
 - How 'safe'?
 - Conforms to standards and best practices?
 - How 'scalable'?
 - Verified non-functional requirements
 - How efficient is the CI/CD and SDLC automation?
- Mitigation recommendations overview
- Cloud Security policy, processes updates recommendations

Timeline for Azure Security Assessment




PHASE	DESCRIPTION	DELIVERABLES
Preparation	Gather the info from the Project Team, define scope, set up toolset	<ul style="list-style-type: none"> Stakeholders identified, scope identified, all available information collected, required access granted, tools and frameworks set up. Scope and requirements are discussed Assessment plan approved
Execution	Automatic security check along with manual validation is performed to discover security issues	<ul style="list-style-type: none"> Security assessment is completed Gaps and vulnerabilities identified
Reporting	All disclosed issues are summarized and classified in Security Reports. Cloud Team knowledge transfer	<ul style="list-style-type: none"> Security Assessment Report is created Mitigation recommendations are provided Results discussed and clarified with Cloud Team
Remediation	Mitigation recommendations are developed by Security Team and discussed with Cloud Team. Security Program Roadmap is developed	<ul style="list-style-type: none"> Security Program Roadmap is discussed and clarified with stakeholders

Microsoft Solutions Partner


EPAM is recognized by Microsoft for demonstrated expertise in creating and delivering innovative solutions using Microsoft technologies to help customers solve complex business challenges.

15+
YEARS OF PARTNERSHIP




Digital & App Innovation | Azure

- DevOps with GitHub
- Kubernetes on Azure
- Migrate Enterprise Apps to Microsoft Azure
- Low Code Application Development
- Build and Modernize AI Apps with Microsoft Azure



Data & AI | Azure

- Analytics
- AI and Machine Learning
- Infra and Database Migration




Infrastructure | Azure

Infra and Database Migration



Security

- Cloud Security
- Threat Protection



Business Applications

- Low Code Application Development
- Intelligent Automation



2023
MICROSOFT PARTNER OF THE YEAR



MSUS Winner for Migration on Azure



MSUS Finalist for Application Modernization



Global Finalist for Retail & Consumer Goods

EPAM Cyber Security Practice

EPAM Key Facts

10+

YEARS OF
EXPERIENCE

20+

GLOBAL DELIVERY
CENTERS

300+

ACTIVE PROJECTS

Our Offerings

- Cloud Security
- Application Security, Secure SDLC
- Data Security
- Security Testing
- MDRS & SOC
- Governance, Risk & Compliance

Partnerships



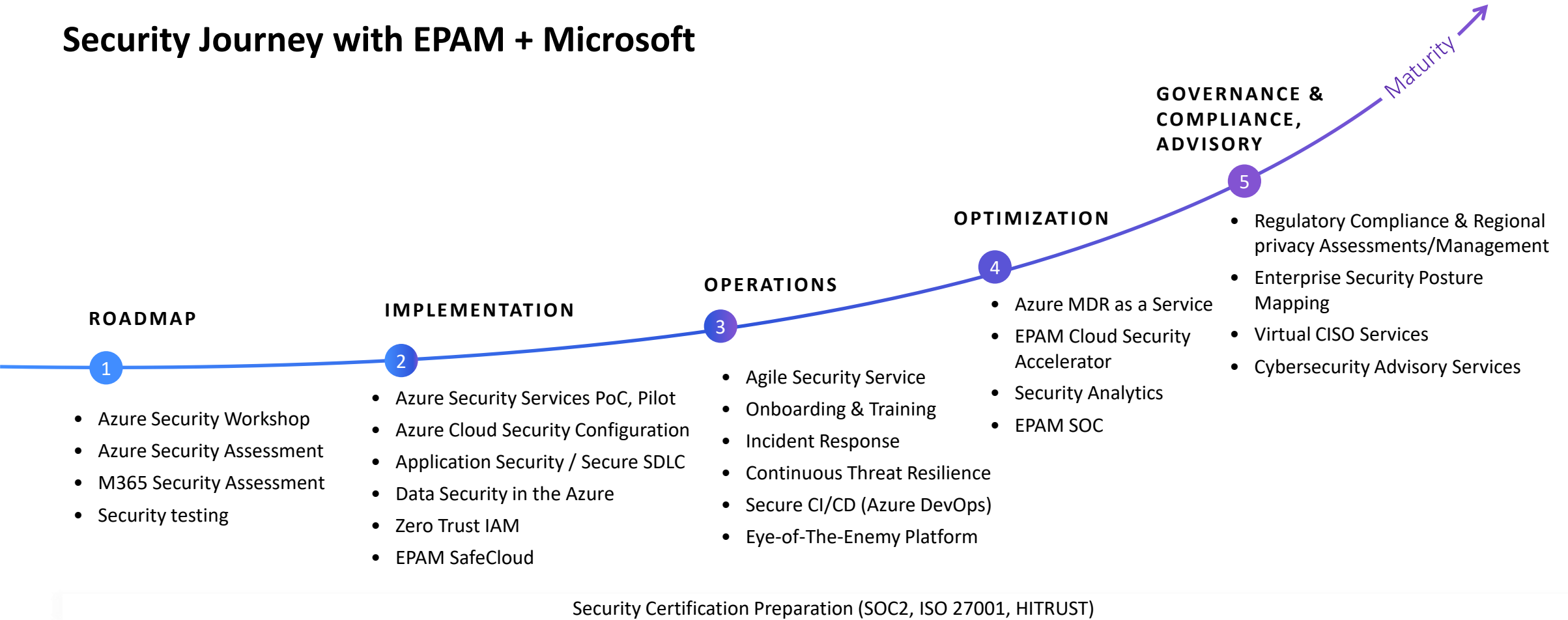
Highlights

- Digital, application and hybrid cloud engineering heritage
- Full spectrum combining advisory and tactical services and technologies
- Continuous improvement compliance and risk management
- Wide-and-deep research-based security expertise

Experience Across Industries

- Financial Services
- Telecom, Media & Entertainment
- Consumer
- Life Sciences & Healthcare
- Travel & Hospitality
- Industrial
- Insurance
- Software & Hi-Tech

Security Journey with EPAM + Microsoft



Based On

TALENT

PARTNERS

METHODS & FRAMEWORK

ACCELERATORS

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| Engineering
the future

