IBM Security Services for Cloud

Protecting the hybrid multi-cloud

Presenter's name
Title

Cloud has turned traditional cybersecurity on its head

of cloud security failures will be the organization's fault

$474 Billion

Global Cloud Revenue to Total $474 Billion in 2022*

$3.8M

Global average cost of a data breach

of world's stored data expected to reside in public cloud by 2025

* Source: Gartner, November 10, 2021.

Unanticipated Acceleration to Cloud

Pandemic accelerated change and demand to allow users to access the enterprise from anywhere using any device

Disparate Controls & Decentralized Management

New computing approaches, including Edge & multi-cloud, require robust security platforms that can deploy controls consistently & seamlessly

Regulatory Compliance Churn & Governance

With the migration of workloads to the Cloud, Security, and compliance are top-of-mind across hybrid multi-cloud environments

Growing Attack Surface & Threat Landscape

Growing threats, tools and data inhibit security operations across hybrid environments

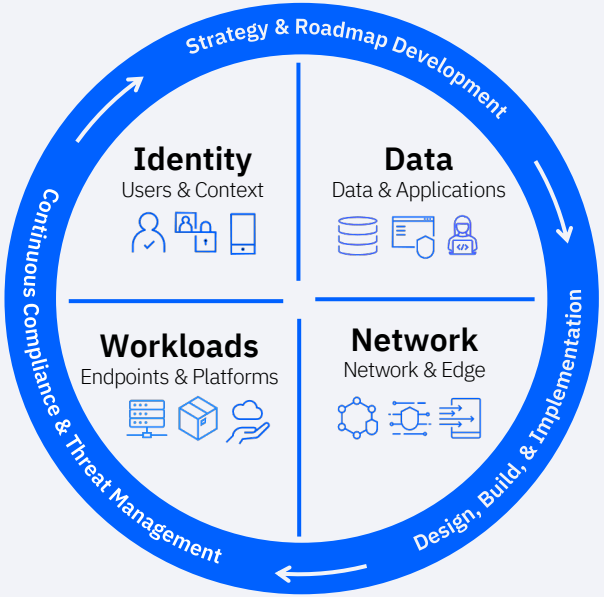
Securing the hybrid enterprise requires a comprehensive cloud security program

01 Defining and implementing a Cloud Security Strategy
Comprehensive, Consistent & Zero Trust Centric

02 Enforcing policies to protect cloud resources

03 Ensuring security posture & compliance needs are continually met

04 Centralizing detection & response to threats 24x7



IBM Security Services for Cloud Services Framework

Services & Delivery Models

Advisory	Integration	Managed	Retainer	Tailored
• Cloud Security Assessment • Cloud Security Strategy	• Secure Architecture Foundations • DevSecOps • Cloud IAM	• Cloud Native Security Services • Cloud, SaaS Posture and Workload Protection	• Secure Cloud Foundations • X-Force Incident Response • Post Breach Response	• Address customer specific Hybrid Cloud requirements

NIST CSF Alignment

Identify → **Protect** → **Detect, Respond** → **Recover**

Zero Trust for Hybrid Cloud


Identities


Data


Applications


Workloads


Networking


DevSecOps

Hybrid Clouds Secured

aws · Microsoft Azure · Red Hat · vmware · IBM Cloud · Google Cloud

IBM Services Platform


DIGITAL USER EXPERIENCE


COMPREHENSIVE SECURITY OPERATIONS


DATA INGESTION & ENRICHMENT


COGNITIVE ANALYTICS

Protect Cloud Workloads

Defining and enforcing security and compliance policies to your cloud workloads regardless of where they are running

Security Policies Aligned with Acceptable Risk Level
Current state of Kubernetes and/or OpenShift security controls and application security requirements

Protection of Cloud Workloads
Design and implementation of cloud workload security technologies and policies

Continuous Threat Management
Steady-state management of security policies, vulnerabilities and threats

Key Delivery Activities

Current State Assessment and Roadmap
- Assessment of the existing environments to understand cloud workload needs and define proper workload-centric security policies
- Review of VMs, containers or serverless controls
- Define a future-state roadmap according to your risk appetite

Detailed design of cloud workload architecture
- Implement and harden cloud workloads based on defined roadmap
- Harden OpenShift native security controls and/or implement 3rd party solutions to better protect your cloud workloads.

Continuous policy and threat mgmt. & vulnerability ranking
- Continuously monitor, detect, triage, and respond to security alerts, and threat.
- Automated threat mgmt. using IBM X-Force Protection platform
- Provide/deploy recommendations on policy updates based on app or business needs.
- IBM X-Force Red™ driven vulnerability ranking and prioritization

Deliverables

- Current state assessment report with observations, recommendations and roadmap

- Solution and Reference Architecture
- Integration plan and Report

- Vulnerability, runtime and compliance reports

2-4 Weeks

4-6 Weeks

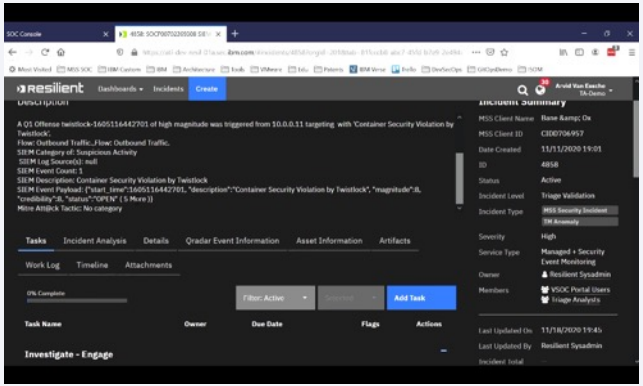
Ongoing

Cloud Workload Protection

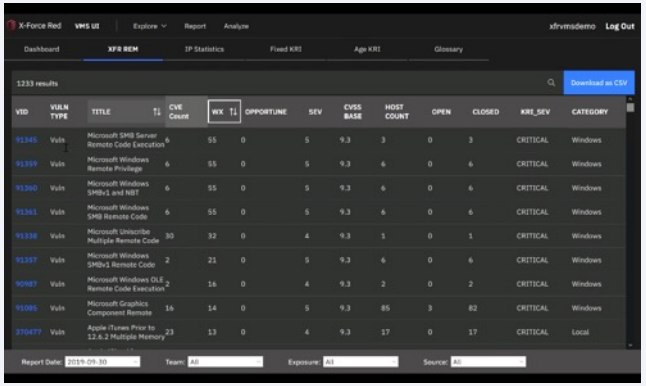
Protect Cloud Workloads

- Current state of Kubernetes and/or OpenShift security controls and application security requirements
- Design & implementation of cloud workload security technologies and policies
- Steady-state management of security policies, vulnerabilities and threats

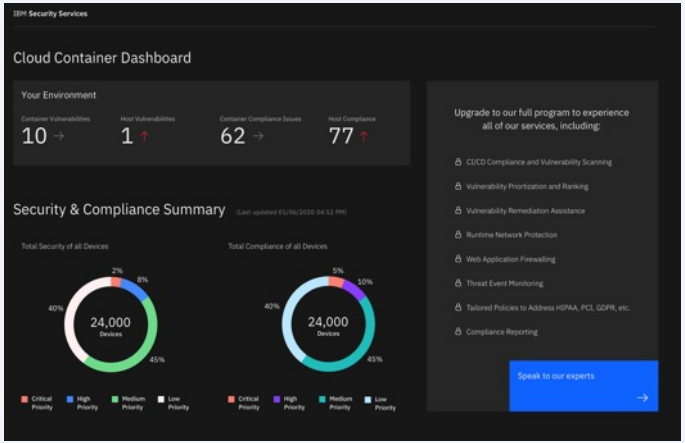
Manage & Respond to Container Threats



Review & Remediate Container Vulnerabilities



Free Trial Container Security Dashboard



Cloud Workload Protection

Multinational Technology

2021

IBM Cloud

Cloud Workload Protection

The Client Challenge:

- Customer provides internal services to multiple customer accounts by leveraging a DevSecOps OpenShift platform
- Provides support for commercial accounts through automating DevOps pipeline controls

The Bottom Line:
Customer met with specific compliance requirements where they needed to get enhanced visibility over their container deployments in order to improve the overall security posture of their enterprise platform

The IBM Solution:

The IBM SSC managed solution helps to enhance the customer's visibility and protection capabilities across their hybrid cloud container workloads (on-prem and IBM Cloud) on more than 250 worker nodes

Our solution also helped with design, implementation and management of the container security policies based on specific customer compliance requirements

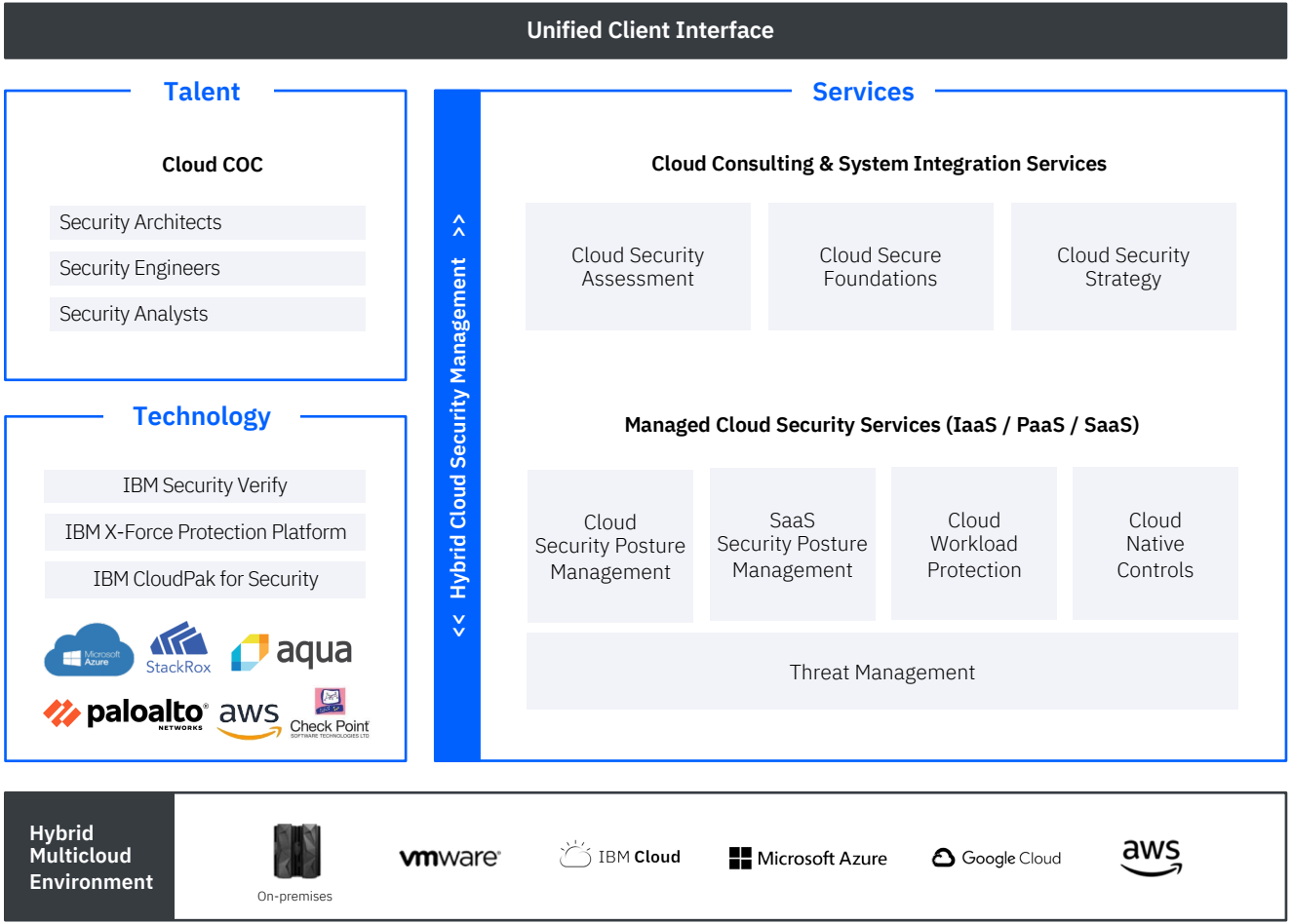
Additional automated threat management capabilities provided that will help detect and respond to any container security events (vulnerabilities, attacks, compliance policies creation, etc.)

Additional Vulnerability Ranking services provided to help detect and prioritize vulnerabilities based on IBM Security's proprietary algorithm

Security Services delivered through a unified experience

Integrated platform + best in class tools + Real time security insights + Secure environment

- Single Interface
- Insights
- Secure Environment
- Rapid Deployment
- AI based Insights
- Automation



Get to value faster with a strong enterprise cloud security partner

Microsoft
Gold
Consulting
Partner

Gold
Microsoft Partner
Microsoft

Member of
Microsoft Intelligent
Security Association
Microsoft

Microsoft Azure Cloud certified professionals across the globe

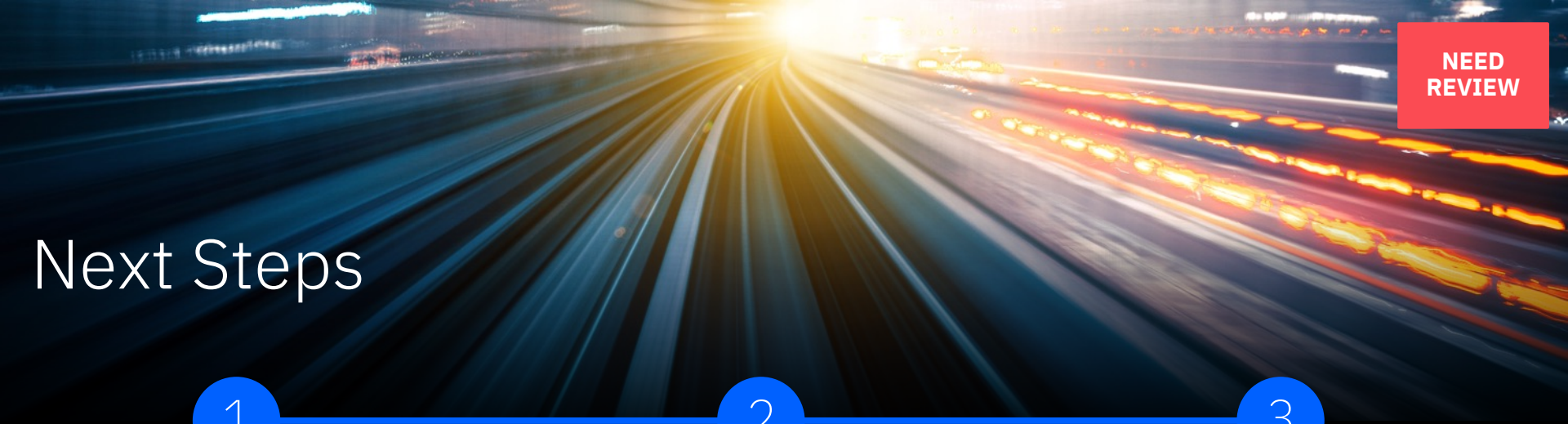
- Consulting & Systems Integration
- Managed Security Services
- Solution Design
- Product Management & Engineering

Vendor and cloud agnostic expertise & support

- **Multi-cloud managed security services** providing centralized visibility, management, and monitoring of security operations across hybrid environments.
- Built on an ecosystem of best-of-breed security technologies, spanning **cloud-native & 3rd party.**

Comprehensive support for hybrid multi-cloud

- Leading portfolio of **comprehensive cloud strategy & risk consulting capabilities** coupled with strong security strategy, integration & operations expertise.
- **Recognized by leading analyst firms as leader in MSSP space**. Known for deep cloud relevant innovation and comprehensive threat management services.



NEED REVIEW

Next Steps

1

Take our free Quick Cloud Security Self-Assessment

ibm.biz/cloud-sec-maturity

2

Sign up for our deep-dive Rapid Cloud Security Assessment

<TBD>

3

Learn more about our Security Services for Cloud

https://ibm.com/security/services/ cloud-security-services

Thank you

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