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Penetration Test Executive Briefing Team XX January 14, 2024





Mission Fulfillment Active Directory Specialist Web Services & APIs

Principal Operator

Linux Engineer & Tooling Cloud Engineer & Special Projects



Objectives



Regulatory Compliance



Critical Findings



Observed Strengths



Remediations



Opportunities for Improvement







Scope



Network





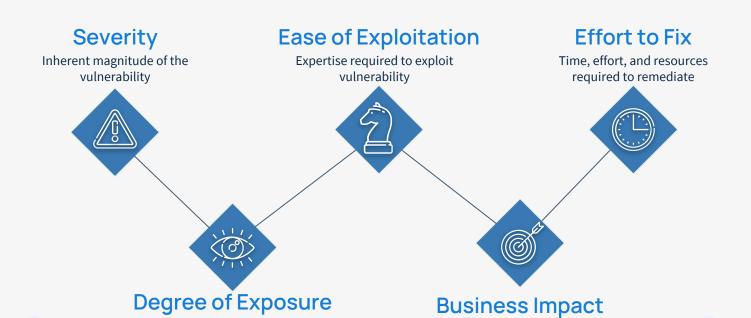








Assessing Risk (Comprehensive Risk Index)



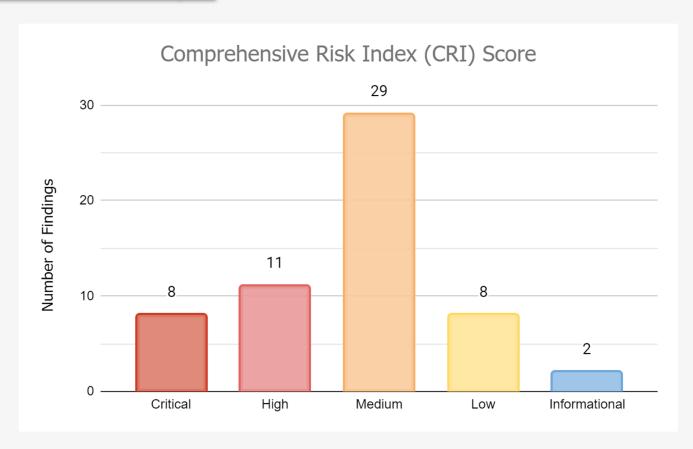
Impact to business, reputation, and

compliance

Degree vulnerability is

exposed in the infrastructure

Critical Findings



Critical Findings

Unauthenticated access to mission critical cyber-physical systems

Exposed sensitive financial and personally identifiable information

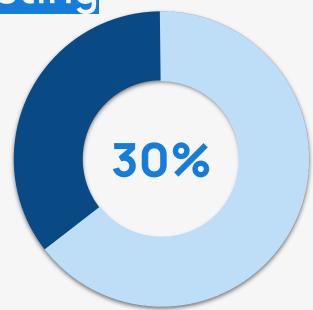
Insufficient Windows Active Directory Security Controls



Existential Risk to
The Business and to
Passenger and
Employee Safety



Remediation Testing



Previous Technical Findings: 23

Remediated Findings: 7

Residual Risk

- Social engineering
- In-house software vulnerabilities
- Physical security



Observed Strengths

- Account Lockout Policies
- Network
 Segmentation
- Secure Software Frameworks



Regulatory & Compliance



Aviation Cyber Initiative (ACI)



Airport
Operator
Cybersecurity
Requirements



24-Hour Breach Reporting Mandate

Regulatory Financial Risk

\$5M

in forfeited grants

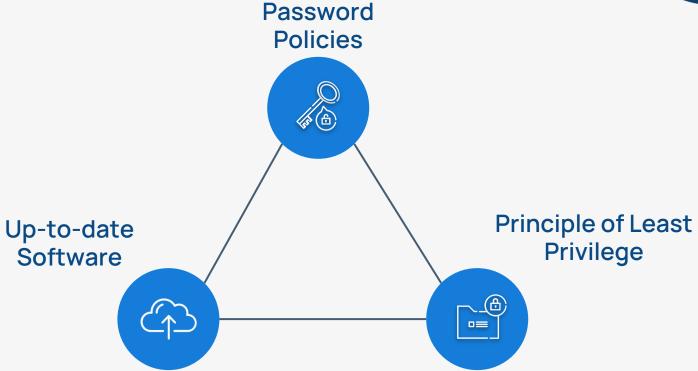


\$6M

in regulatory penalties

Opportunities for Improvement





Takeaways



Improved security posture

compared to initial engagement

Critical weaknesses remain

in RAKMS' security posture



Opportunity to distinguish RAKMS

from peers in the airport and aviation industry

Thank you!

We'd love to take your questions.

