Security Readiness Assessment

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Cloud Era Requires Identity-Centric Security

IDENTITY

SaaS  PaaS  IaaS

Cloud

Internet of Things

Social

Big Data

Mobile

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Unified Threat Intelligence

Security
Firewall, IDS, IPS, WebProxy, VPN, AV, DLP, DAM, WAF, VA Scanners

Host
Windows, Linux, Unix

Networking
Router, Switch, DHCP, DNS, Load Balancer

Applications
3rd Party Apps, Oracle Apps, Custom Workloads

Cloud
SaaS, PaaS, IaaS

Infrastructure
EMM, Middleware, Database, Web Server, Hypervisor
Database Security: Attack Vectors

Numerous attack vectors call for a layered, Defense-in-Depth security strategy

- SQL Attack
- Accidental Exposure
- DBA Permission Abuse
- Dev Team Snooping

- App User Snooping
- APT or Malware Attack

- Data at Rest Attack

- Archive Data
- Production Data
- Dev & Test Data

- Insider Threat
- Lost Disk or Tapes
- Exposed Keys
- Lost or Stolen Device

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Security Readiness Assessment

Executive level, strategic engagement focused on aligning an organization’s enterprise security architecture with business objectives

A successful engagement will:

• Document an organization’s *current security and compliance posture*

• Identify existing key *risks and challenges*

• Outline a desired *future state architecture*

• Recommend *actionable steps* on a *strategic roadmap* for achieving the future state

• Show how the recommended initiatives can deliver *business value*
Security Readiness Assessment – Focus Areas

<table>
<thead>
<tr>
<th>User Lifecycle Management</th>
<th>Authentication and Authorization</th>
<th>Identity Repositories</th>
<th>Cloud Services</th>
<th>Database Security</th>
<th>Operational Manageability</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Identity Lifecycle</td>
<td>• Authentication &amp; SSO</td>
<td>• Directories and databases containing Identity data</td>
<td>• Public cloud services employed and planned (SaaS, PaaS, IaaS)</td>
<td>• Encryption</td>
<td>(Optional area)</td>
</tr>
<tr>
<td>Management</td>
<td>• Risk-based Authentication and Authorization</td>
<td>• Directory Virtualization</td>
<td>• Deployment options (Public, Private, Hybrid)</td>
<td>• Data Redaction</td>
<td>• Security Governance</td>
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<tr>
<td>• Role &amp; Relationship</td>
<td>• Fraud Detection</td>
<td>• Directory Synchronization</td>
<td>• IAM for Cloud services (provisioning, audit, authentication, authorization, federation)</td>
<td>• Data Masking</td>
<td>• Configuration Controls</td>
</tr>
<tr>
<td>Management</td>
<td>• Fine Grained Authorization</td>
<td>• Application Authentication</td>
<td>• Multi-Factor Authentication</td>
<td>• Access Discovery and Control</td>
<td>• Patch Management</td>
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<tr>
<td>• Access Request, Approval and Fulfillment</td>
<td>• Federation</td>
<td>• Database Authentication</td>
<td>• Data Classification</td>
<td>• Multi-Factor Authentication</td>
<td>• Diagnostics</td>
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<tr>
<td>• Password Management</td>
<td>• Social Sign-On</td>
<td>• Operating System Authentication</td>
<td>• SQL Injection Protection</td>
<td>• Data Classification</td>
<td>• SLA Management</td>
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<tr>
<td>• Auditing and Reporting</td>
<td>• Cloud and API Security</td>
<td></td>
<td>• Audit and Compliance</td>
<td>• SQL Injection Protection</td>
<td>• Performance Tuning</td>
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<td>• Attestation/Certification</td>
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<td></td>
<td>• Audit and Compliance</td>
<td>• Centralized Authentication and Authorization</td>
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<tr>
<td>• Privileged Account</td>
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<td>• Centralized Authentication and Authorization</td>
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<td>Management</td>
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</tbody>
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Security Readiness Assessment

Engagement Plan

1. Executive Invitation
2. Planning & Preparation
3. Onsite Discovery
4. Deliverable Preparation
5. Executive Presentation
SRA Customer Benefits
Objective: Elevate Security Posture

• Focus on most important risks and challenges

• Support proactive planning for the future

• Prioritize needed improvements to reach a desired future state

• Facilitate cooperation on security initiatives
What Investment is Required?

• Strong executive support

• Strong tactical leadership

• Time, attention and candid participation