

AUDREY MAGENNIS

Performing IT Risk Assessments: Identifying and Mitigating Key Risks



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100+

Dedicated Industry Professionals

Specialized Credentials

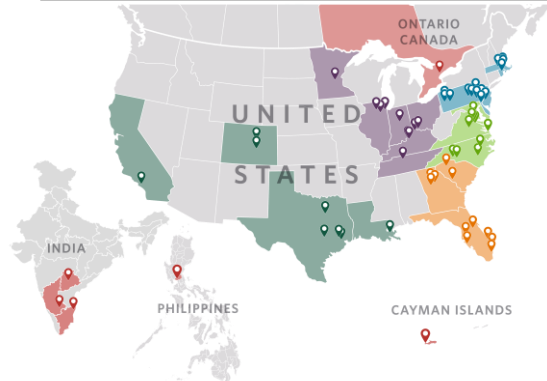
CPA, CIA, CRCM, AAP, CITP, CAMS, CISA

Significant Industry Association Involvement & Regulator Relationships

420+

Financial Institutions Clients

55+ North American Offices & Global Reach



3,000
Employees

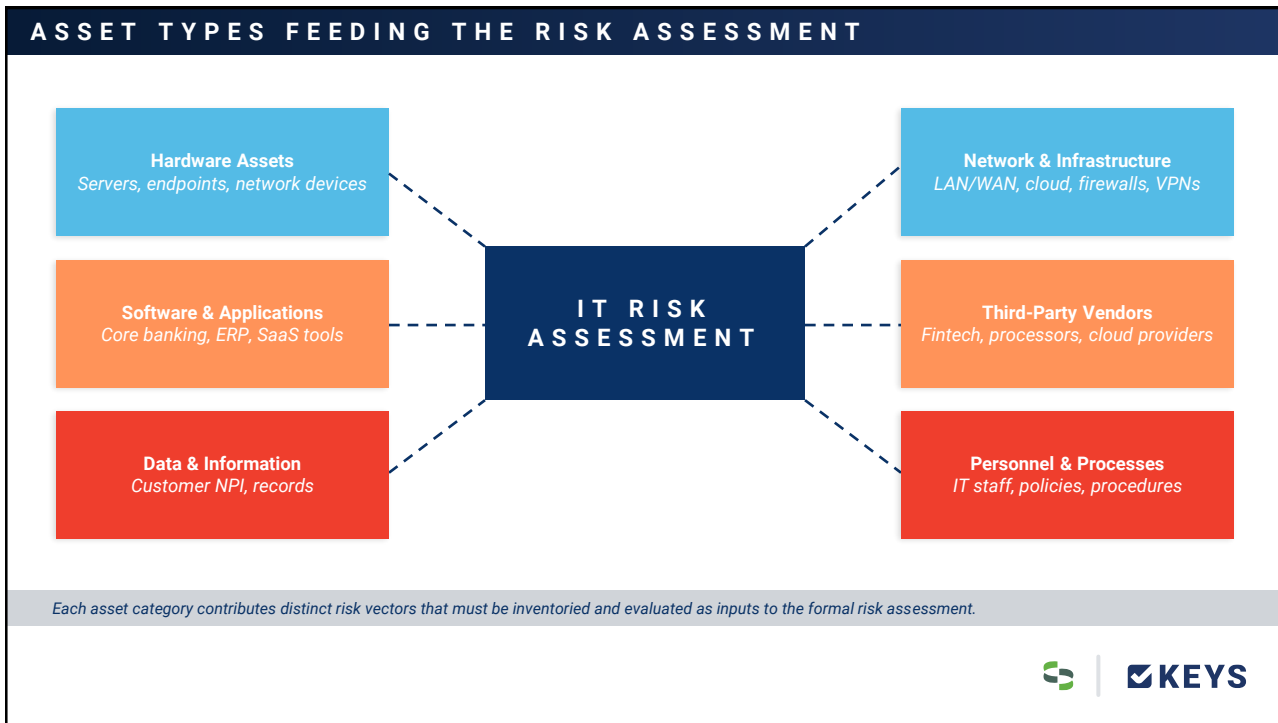
75+
Years in Business

230+
Partners

15
Acquisitions Since 2022



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KEY THREAT CATEGORIES

TECHNOLOGY	INFORMATION SECURITY	CYBERSECURITY
System/Application Failures	Unauthorized Data Access	Ransomware & Malware
Legacy System Vulnerabilities	Data Leakage / Exfiltration	Phishing / Social Engineering
IT Infrastructure Outages	Insider Threats	DDoS Attacks
Unpatched Software & OS	Weak Access Controls / IAM	Advanced Persistent Threats
Cloud Misconfiguration	Regulatory Non-Compliance	Credential Compromise
Disaster Recovery Gaps	Third-Party Data Breaches	Supply Chain Attacks

Financial institutions face threats spanning all three domains simultaneously – requiring an integrated assessment approach.

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SAMPLE IT RISK ASSESSMENT

Intersection	Shared topics	Why it matters
IT Risk/InfoSec	Data availability, backup integrity, access controls on IT systems	IT outages can expose data; access controls are both IT and InfoSec concerns
IT Risk/Cyber	Network infrastructure security, patch management, endpoint hardening	Unpatched systems are an IT risk AND a cybersecurity attack surface
InfoSec/Cyber	IAM, threat intelligence, incident response, encryption in transit/at rest	Most cybersecurity attacks target information assets – shared ownership
All three	Vendor/third-party risk, cloud security, BCP/DR, privileged access	Enterprise-wide risks that require cross-functional assessment and ownership

Cyber Risk
IT Risk
InfoSec Risk

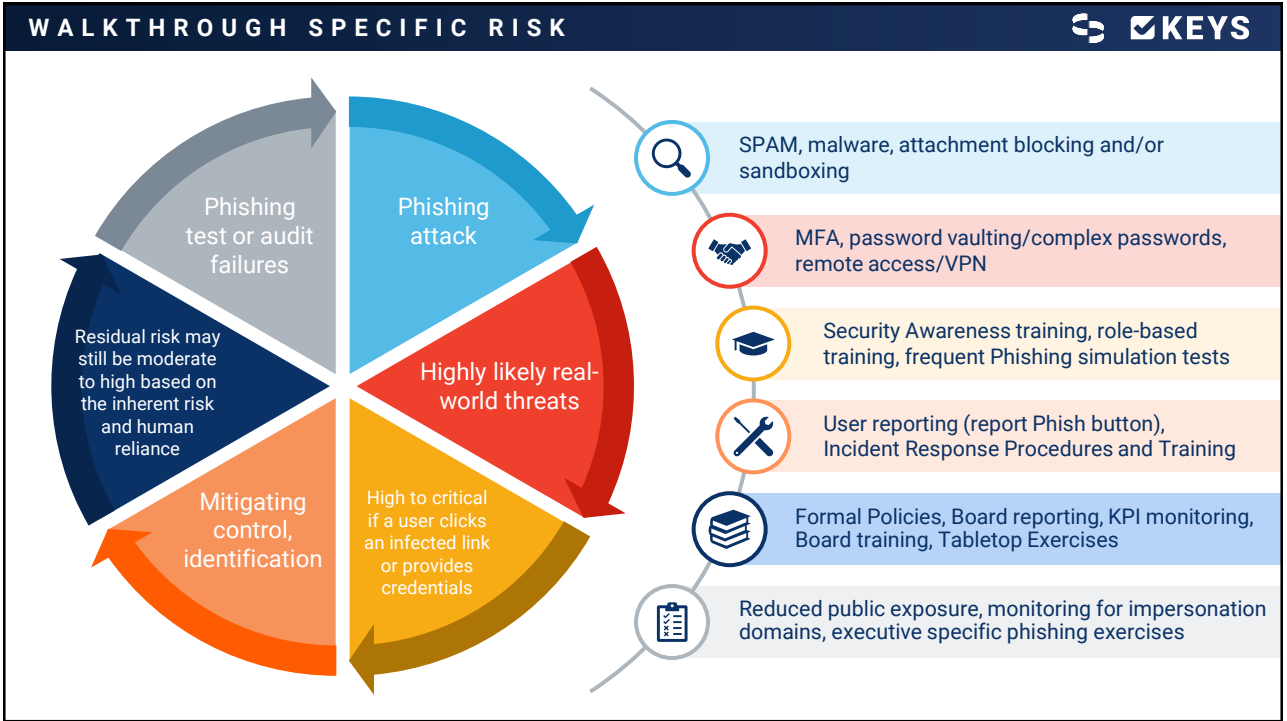
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RISK RATINGS FRAMEWORK

INHERENT RISK	LIKELIHOOD	IMPACT	CONTROLS
Critical <i>Immediate threat to operations / compliance</i>	Almost Certain <i>>80% probability in 12 months</i>	Significant <i>>Organization wide or material consequences</i>	Strong <i>Automated, tested, and audited controls</i>
High <i>Significant exposure requiring urgent action</i>	Likely <i>50–80% probability</i>	High <i>Serious disruption or exposure</i>	Adequate <i>Effective but with minor gaps noted</i>
Moderate <i>Noticeable risk; monitor and mitigate</i>	Possible <i>20–50% probability</i>	Moderate <i>Noticeable, but manageable impact</i>	Partial <i>Controls exist but inconsistently applied</i>
Low <i>Minimal impact with existing controls</i>	Unlikely <i><20% probability</i>	Low <i><Minimal disruption or exposure</i>	Insufficient <i>Weak or absent controls; residual risk high</i>

Residual Risk = Inherent Risk adjusted by the strength of Mitigating Controls. Likelihood further weights each risk score.

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SAMPLE RISK ASSESSMENT TEMPLATE & HEAT MAP

RISK HEAT MAP

	Negligible	Minor	Moderate	Major	Critical
Almost Certain	5	10	15	20	25
Likely	4	8	12	16	20
Possible	3	6	9	12	15
Unlikely	2	4	6	8	10
Rare	1	2	3	4	5

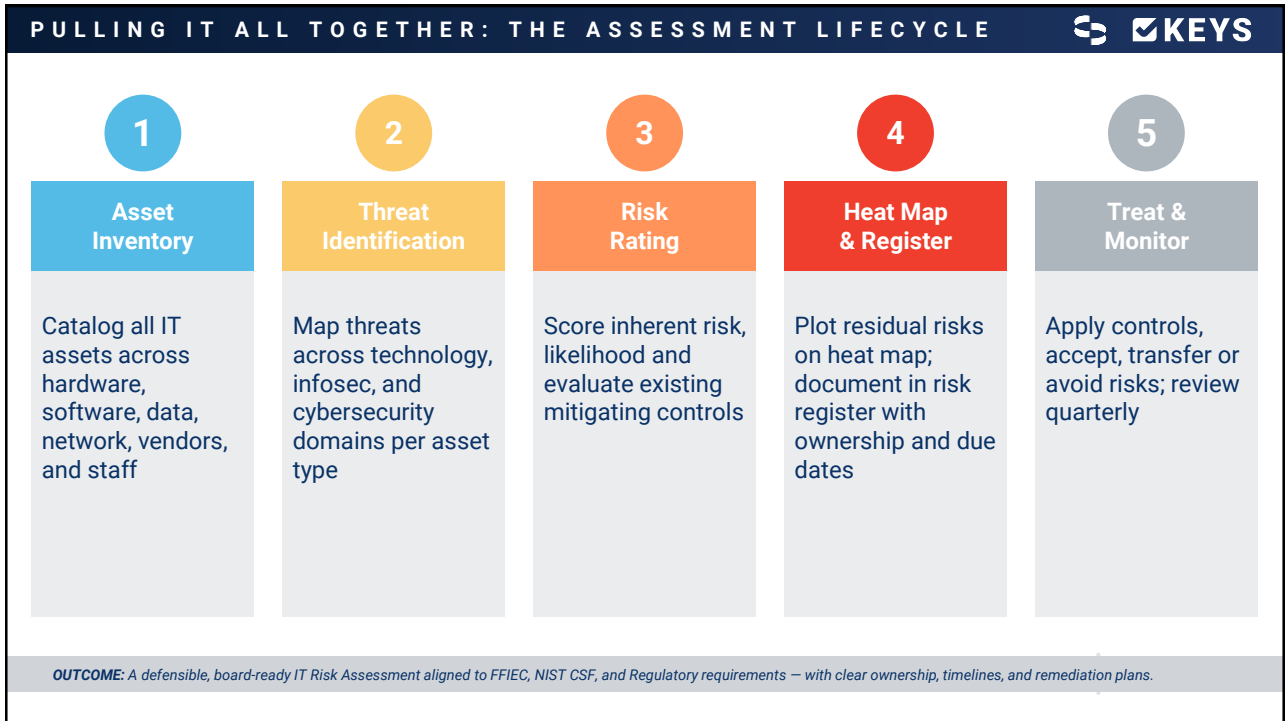
LEGEND

■ High (15-25)
 ■ Medium-High (10-14)
 ■ Medium (5-9)
 ■ Low (1-4)

SAMPLE RISK REGISTER

Risk / Threat	Inherent	Likelihood	Impact	Control	Residual
Ransomware Attack	Critical	Likely	High	Partial	High
Core Banking Outage	High	Possible	Medium	Adequate	Moderate
Phishing / BEC	High	Likely	High	Adequate	Moderate
Third-Party Breach	High	Possible	Medium	Partial	High
Insider Data Theft	Moderate	Unlikely	Low	Adequate	Low
DDoS Attack	Moderate	Possible	Medium	Strong	Low
Unpatched Vulnerabilities	High	Almost Certain	Significant	Insufficient	Critical
Cloud Misconfiguration	Moderate	Possible	Medium	Partial	Moderate

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IT RISK ASSESSMENT

Financial Institution — Technology, Information Security & Cybersecurity

Assessment Period: Q1 2026 | Prepared by: IT Risk & Compliance Team | Classification: CONFIDENTIAL

1. PURPOSE & SCOPE

This IT Risk Assessment identifies, evaluates, and prioritizes technology, information security, and cybersecurity risks facing the institution. It supports compliance with FFIEC IT Examination Handbooks, NIST Cybersecurity Framework (CSF), and applicable regulatory guidance. Risk scores reflect the **inherent risk** level adjusted by the strength of **mitigating controls** to determine the **residual risk** posture.

Institution	ABC Bank — All Lines of Business
Assessment Date	March 2026
Domains Covered	Technology Infrastructure, Information Security, Cybersecurity
Regulatory Alignment	FFIEC, NIST CSF 2.0, ISO 27001, [L]BA
Next Review	September 2026 (semi-annual cadence)

2. RISK RATING METHODOLOGY

Risks are scored using a 5x5 matrix combining **Inherent Risk / Impact** and **Likelihood of Occurrence**. The resulting score (1–25) is then adjusted downward based on the effectiveness of **Mitigating Controls** to arrive at a **Residual Risk** rating.

INHERENT RISK / IMPACT	LIKELIHOOD	MITIGATING CONTROLS
Critical — Catastrophic — operations, solvency, or legal jeopardy	Almost Certain — >90% probability in next 12 months	Strong — Automated, tested, audited — significant risk reduction
High — Significant financial, reputational, or regulatory harm	Likely — 50 – 80% probability	Adequate — Effective controls with minor gaps
Moderate — Noticeable disruption; manageable with effort	Possible — 20 – 50% probability	Partial — Controls exist but inconsistently applied
Low — Minor impact; routine recovery	Unlikely — 5 – 20% probability	Insufficient — Weak or absent — high residual exposure
Negligible — Minimal; no meaningful effect	Rare — <5% probability	None — No controls in place

Residual Risk Formula: Raw Score = Likelihood Score x Impact Score (1–25). Residual Risk adjusts the raw score downward based on control effectiveness: Strong (-2 level), Adequate (-1 level), Partial (no change), Insufficient(+1 level).

Purpose, Scope, Risk Methodology

- ▶ Establishes **what risks are being evaluated and why**, ensuring the assessment supports Board oversight and strategic decision-making.
- ▶ Defines **what is included and excluded**, preventing gaps, overlaps, or misinterpretation of reported risk levels.
- ▶ Applies a **consistent likelihood and impact framework** to prioritize risks based on potential business effect.
- ▶ Clearly distinguishes **inherent risk verses residual risk**, enabling the Board to see where controls are effective and where risk remains above tolerance.

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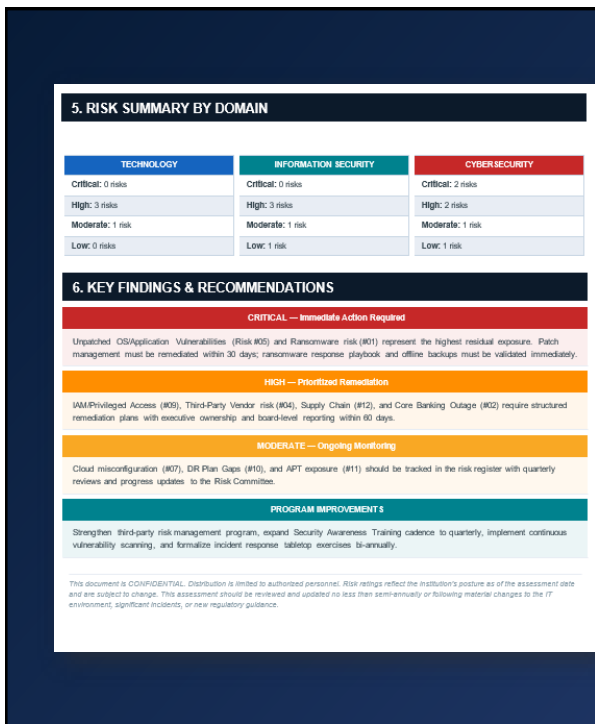


Risk Heat Map | Risk Register

- ▶ A quick view of the most significant IT risks, prioritized by likelihood and business impact.
- ▶ Enables the Board to quickly identify which risks require immediate attention versus ongoing monitoring.
- ▶ Serves as the authoritative record of material IT risks, including ownership, mitigation actions, and status.
- ▶ Allows the Board to track whether risks are being actively managed and trending in the right direction.



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Risk Summary | Recommendations

- ▶ Provides a concise view of risk levels across major IT domains (i.e. cyber, TPRM, resilience), enabling the Board to understand where risk is concentrated.
- ▶ Highlights relative risk exposure, allowing the Board to focus oversight on domains with the greatest potential business impact.
- ▶ Summarizes the most significant control gaps and risk drivers identified during the assessment.
- ▶ Presents clear, actionable recommendations to reduce risk and align exposure with the Board's risk appetite, supporting informed prioritization and investment decisions.



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