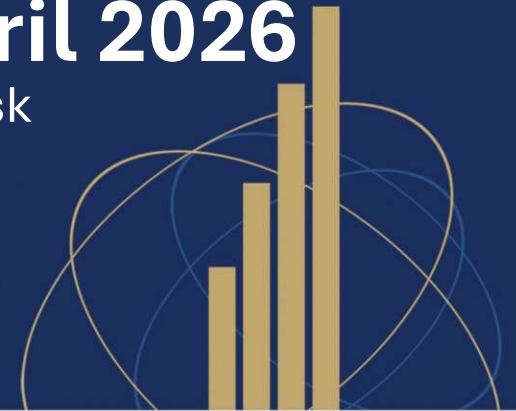




20 April 2026

Managing Emerging Risk



www.cigfaro.co.za

Muvhango Livhusha
ISACA SA VICE PRESIDENT

SAQA Recognised Professional Body

Session Objectives

Understand emerging IT risks

Identify key technology risk areas

Learn risk management frameworks

Apply best practices

What Are Emerging IT Risks?

Risks from new and
evolving
technologies

Rapid digital
transformation

Impact security,
compliance, and
operations

Why Emerging IT Risks Matter



Increasing cyber threats

Financial and reputational damage

Regulatory penalties

Operational disruptions



Key Drivers of IT Risk

Technology
Innovation

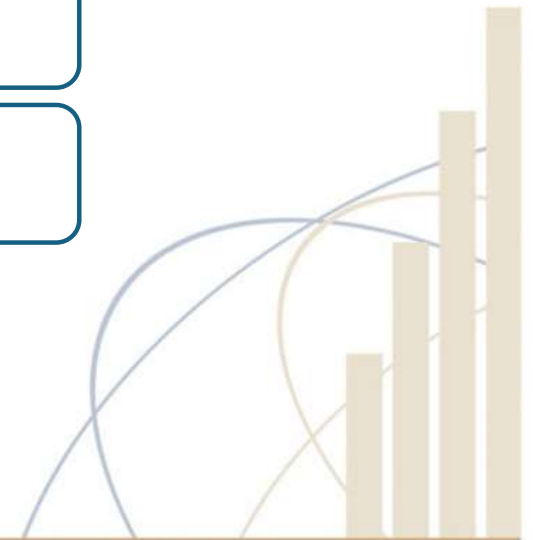
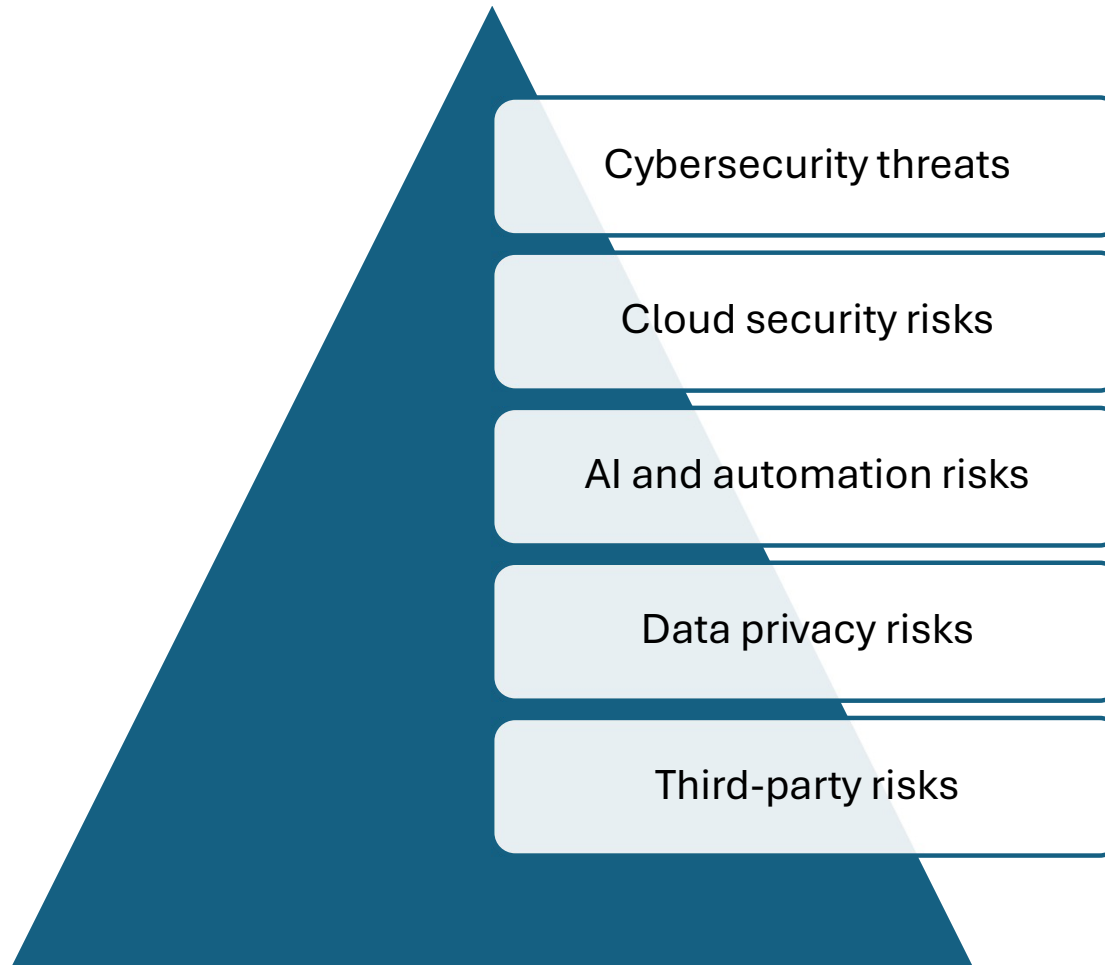
Cloud Adoption

Cybercrime Growth

Remote Work



Categories of IT Risks



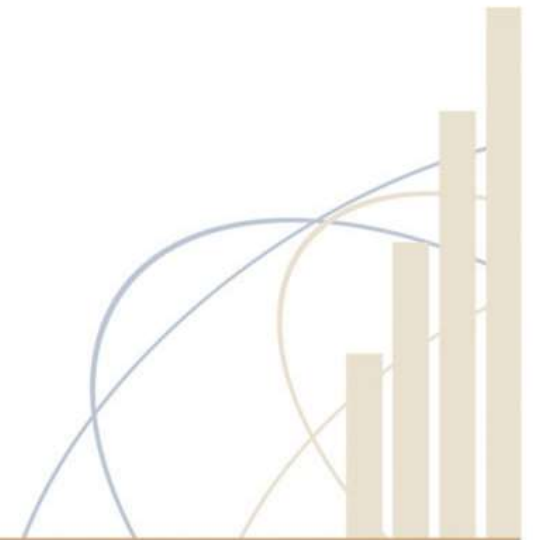
Cybersecurity Threat Landscape

Ransomware

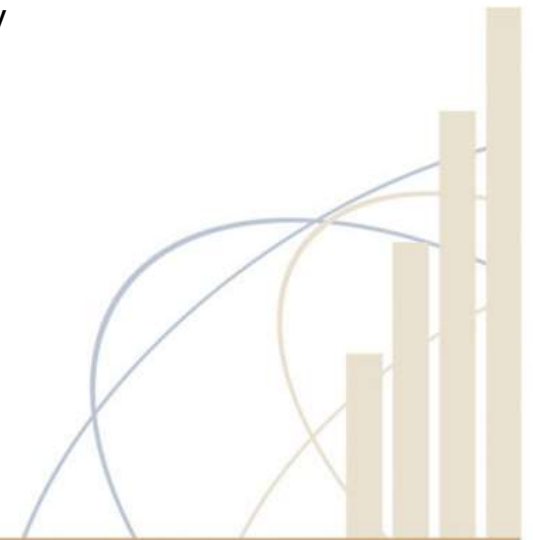
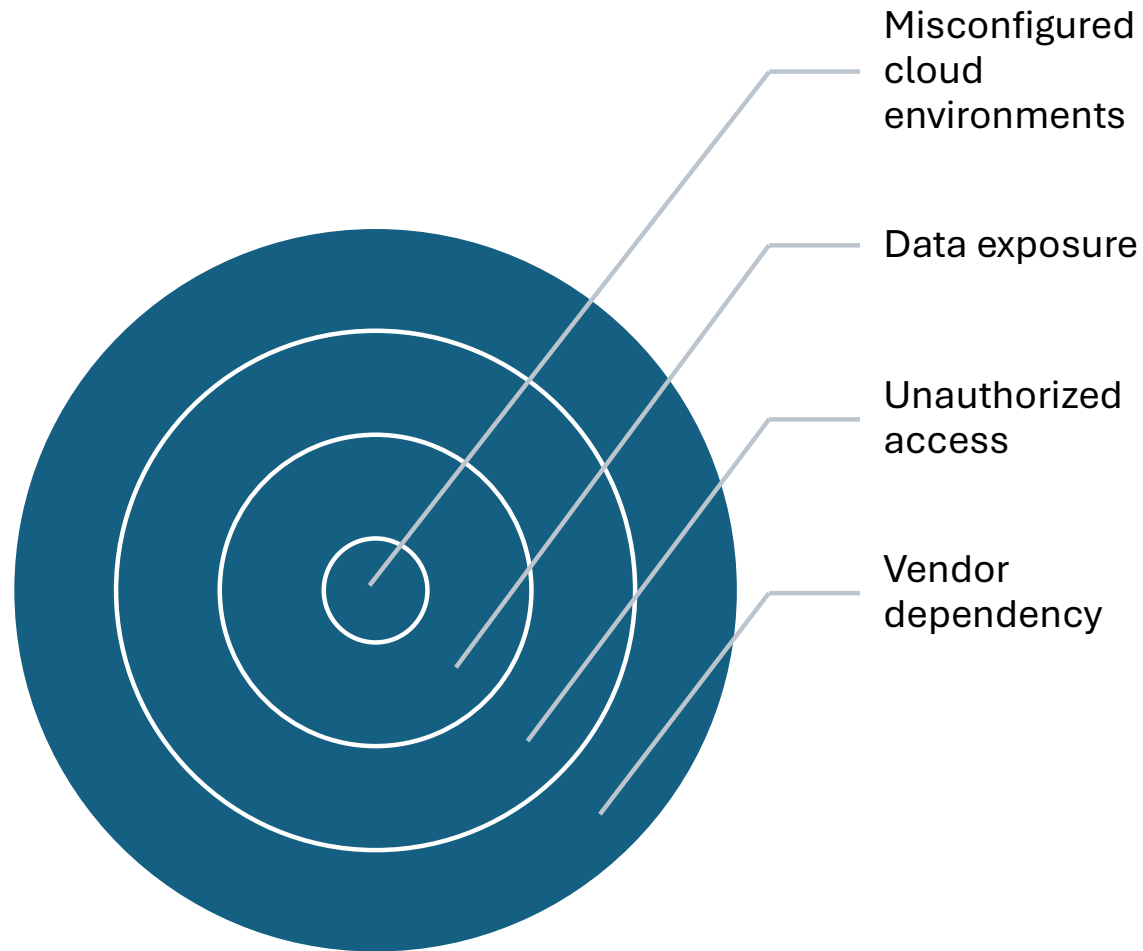
Phishing

Insider Threats

APTs



Cloud Computing Risks



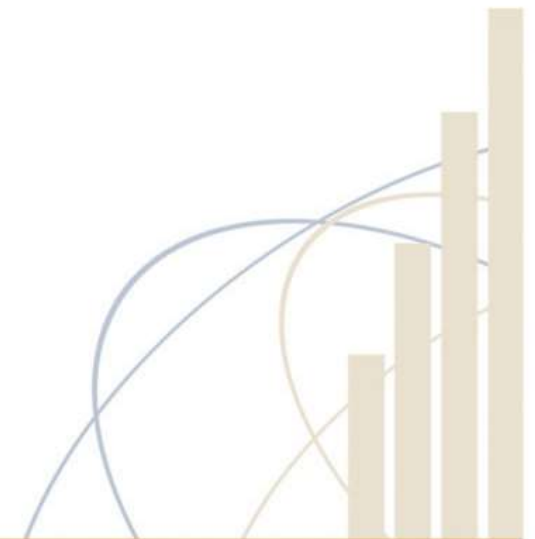
AI Risk Framework

Data Bias

Model Security

Ethical AI

Transparency



Data Privacy Risks

- Data breaches
- Unauthorized data access
- Compliance violations



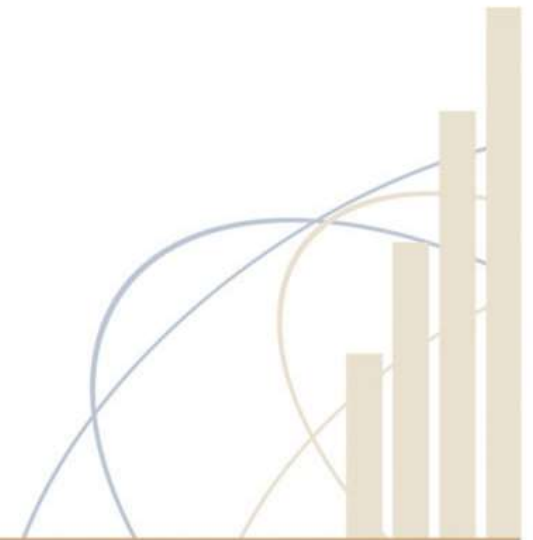
Third-Party Risk Model

Vendor Assessment

Security Controls

Contract
Requirements

Continuous
Monitoring



IT Risk Management Process

Identify

Assess

Mitigate

Monitor

Risk Impact vs Likelihood

	Low	Medium	High
Low	Risk	Risk	Risk
Medium	Risk	Risk	Risk
High	Risk	Risk	Risk



Risk Mitigation Framework

Policies

Security Controls

Training

Incident Response

IT Governance Framework



The diagram illustrates the IT Governance Framework as a sequence of four interconnected components. These components are represented by dark blue rounded rectangular boxes with white text, arranged horizontally from left to right. A large, light gray arrow points from the left side of the first box towards the right side of the fourth box, indicating a flow or progression. The four components are: Strategy Alignment, Risk Oversight, Compliance, and Performance Monitoring. In the bottom right corner, there is a decorative graphic consisting of several overlapping curved lines in shades of blue and orange, and a bar chart with four vertical bars of increasing height.

Strategy
Alignment

Risk Oversight

Compliance

Performance
Monitoring

Cybersecurity Defense Layers

Network
Security

Endpoint
Security

Identity
Management

Monitoring



Best Practices



Zero-Trust security

Continuous monitoring

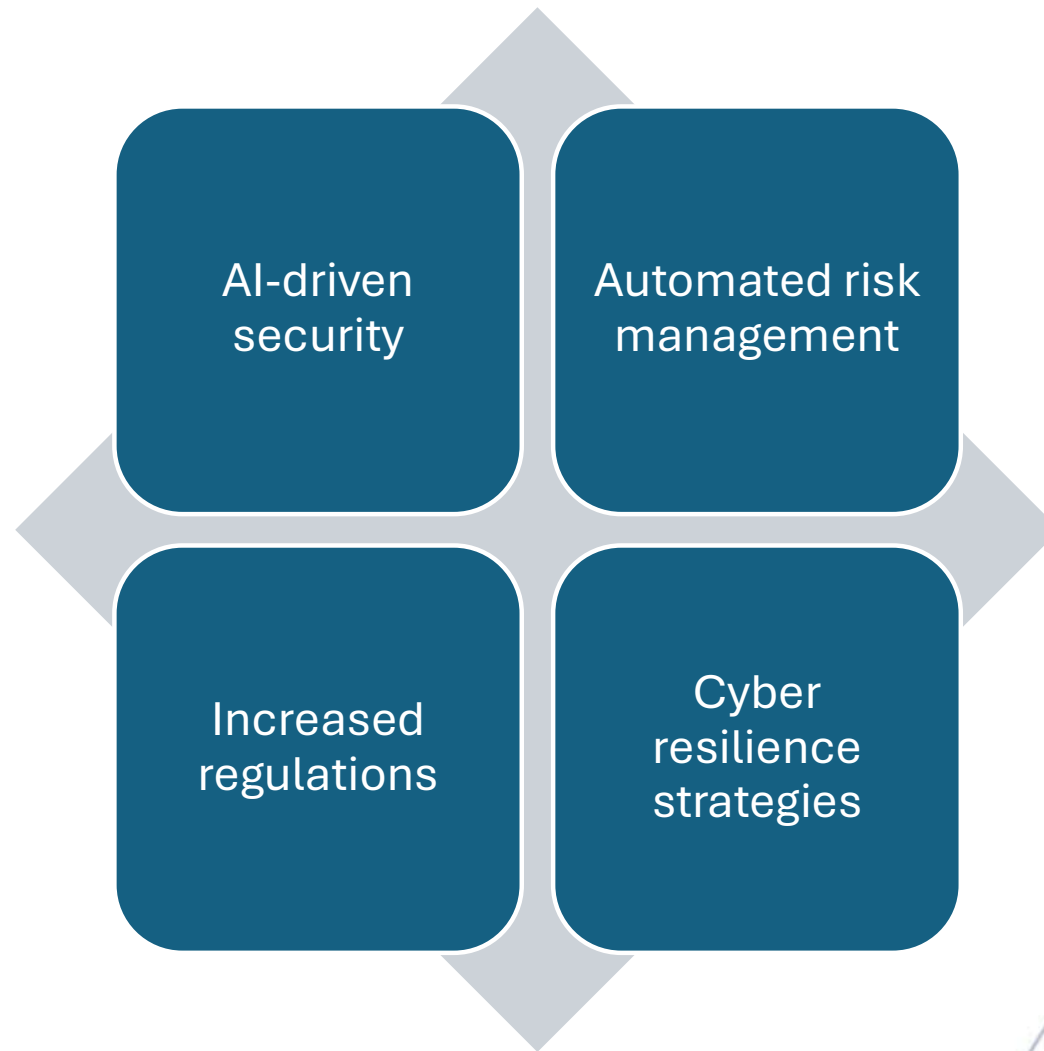
Employee training

Regular risk assessments

COBIT

Frameworks

Future Trends



Conclusion





Thank You!



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