

Understanding Third-party Risk in the Cloud

PROTECT DATA AND
USERS EVERYWHERE

SAFELY ENABLE THE
CLOUD AND WEB

DELIVER SECURITY
THAT IS FAST AND
SCALABLE

Damian Chung
Business Information Security Officer

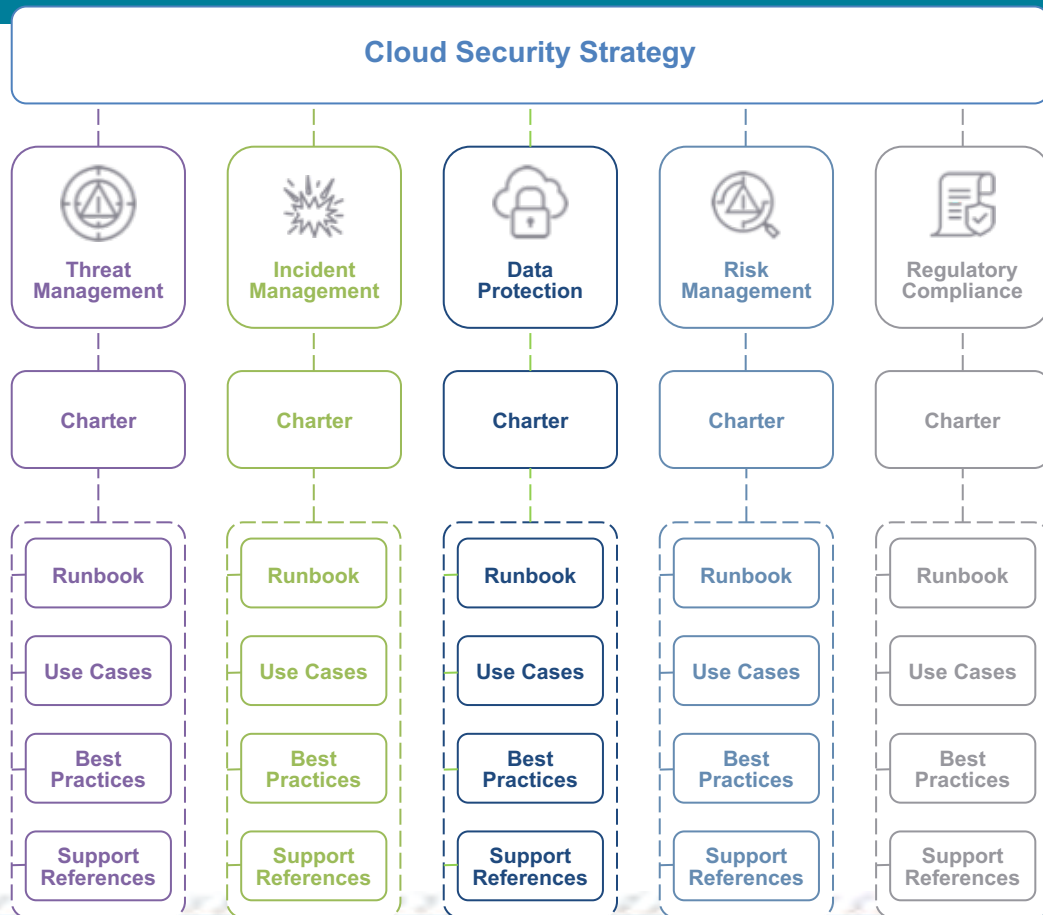


CYBER SECURITY
SUMMIT
Security solutions through collaboration™

#cybersummitmn

October 28-30, 2019 | Minneapolis Convention Center

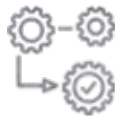
The Evolutionary Focus of Third-party Risk in the Risk Management Domain



Third-party Risk Management Process



Understand
the risks
associated
with business
requirements



Risk alignment
with the third-
party



Determine
proper security
controls



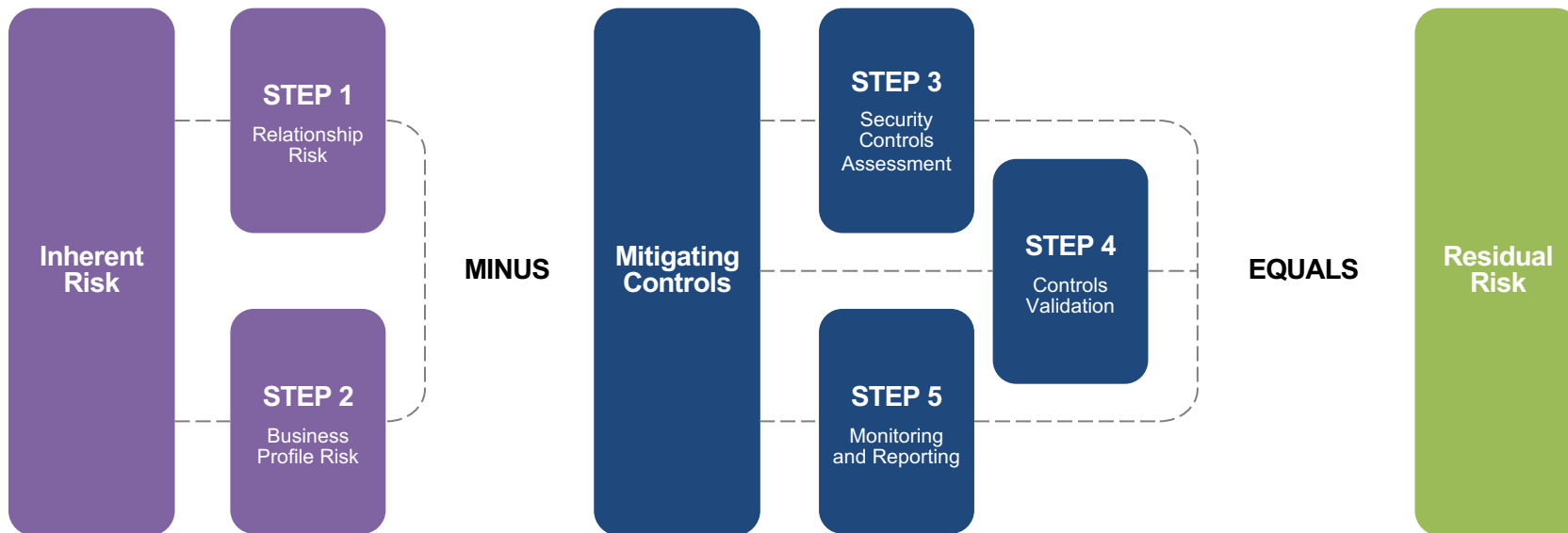
Evaluate
and validate
controls



Define a
continuous
monitoring
program



Steps to Managing Third-party Risk



Traditional Assessments



A third-party risk assessment questionnaire, but does it work for cloud applications?



Use a third-party to evaluate third-party vendors



Evaluate risk of an enterprise's public IP



Blind trust



SLA and MSA reviews

The traditional way is on a collision course for failure!



Risks in the Cloud Are Real

Cloud service providers mitigate all risk, right?

Nope!

Companies know the type of data that is moving

Not Exactly

Companies know where their data is going

Do they?

Third-party risk management is broken!

Companies know how the data is moving

Maybe...



Expectations vs. Realities of Addressing Third-party Risk



Digital Transformation Induced Shifts

The perimeter has dissolved, yet
90% of Enterprise Security spend
is on-premise approaches.

90%

Data created in the
last two years

90%

Enterprise devices
that are mobile

85%

Enterprise internet
traffic has moved to
SaaS / Cloud

2%

Percentage of SaaS
apps that IT controls
and secures



What You Already Know about Third-party Risk in the Cloud



Cloud applications are inexpensive



Business is looking for “ease of use”



Cloud applications must be fast with minimal latency



Compliance standards highlight third-party risk



Most applications are hosted in a cloud data center (AWS, Azure, Google Cloud)



Compliance Measures

- SOC Reports, cybersecurity insurance, NDAs, MSA's, SLA's
- Risk assessments required for compliance checks
 - National Institute Standards Technology (NIST) Special Publication (SP) 800-53r4 and NIST Cybersecurity Framework (CSF) v1.1 Standards and Frameworks
 - Health Insurance Portability and Accountability Act (HIPAA)
 - Health Information Technology for Economic and Clinical Health Act (HITECH)
 - Payments Card Industry (PCI) Data Security Standards
 - Federal Acquisition Regulation (FAR)
 - Gramm-Leach-Bliley (GLB)
- Do paper-based policies and statements mean security?



What You May Not Already Know About Third-party Risk in the Cloud



Visibility of cloud applications



Types of data that resides in cloud applications



The risk of cloud applications



Identities being used for cloud applications



Types of data that is being used during a POC



How Traditional Threats are Evolving

- Hunting for publicly accessible IaaS resources like S3 buckets and repos
- Malware Infection through Cloud
- Using Cloud Resources for C&C or storing payloads
- Using the Cloud to Hide Phishing
- Exploiting Application vulnerabilities running on cloud services to launch attacks
- Brute forcing weak passwords for public facing services



Challenges to Addressing Third-party Risk in the Cloud



Smaller companies with a unique solution may not have a security program



Many cloud applications have limited to no cybersecurity insurance



Third-parties are using sub-contractors, introducing fourth-party risk



There is a privacy concern of personal vs business data



Businesses are extending their virtual boundaries



Improving Third-party Risk Assessment in the Cloud



CYBER SECURITY
SUMMIT
Security solutions through collaboration™

#cybersummitmn

October 28-30, 2019 | Minneapolis Convention Center

How Are you Evolving?



CYBER SECURITY
Security solutions through collaboration™ **SUMMIT**

#cybersummitmn

October 28-30, 2019 | Minneapolis Convention Center

The Future of Cloud Risk Assessments



**Evaluate what data is
being used**



**Configuration controls in
place to monitor or block
cloud applications**



**Identify potentially risky
cloud applications**



**Ensure MSA includes the
Right-to-Audit clause**



**Invoke identity challenges
for access to sensitive data**

How to Enable Your Business



Understand the business needs for cloud applications



Become a champion of digital transformation



Be agile to support business to build faster



A person stands on a dark, silhouetted mountain ridge, looking out over a vast, hazy mountain range. In the distance, a large, snow-capped mountain peak rises above the clouds. The scene is captured in a wide-angle shot, emphasizing the scale and grandeur of the landscape. The sky is a pale, hazy blue, and the overall atmosphere is one of solitude and contemplation.

**VISIBILITY
IS KING.
GET IT BACK.**



Recommendations



Build relationships with
supply chain and
procurement



Extend data classification
into cloud applications



Identify the cloud
applications being used



Educate the workforce



Be a partner with the
business



Understand innovative risk





Ask the Right Questions:

1. Data Sovereignty: Where does the data live?
2. Ownership: Who owns the data rights?
3. Portability: Can we download data at end of contract?
4. Retention/Destruction at end of contract
5. Compliance: Standards and Certifications



Insider, Data, & Configuration Controls

Cloud Security Governance & Ops

Continuous Security Assessment



Enhance visibility, prevent security exposure, and simplify governance & compliance

Breach Detection and Response



Detect & prioritize active threats across all web and cloud services

Cloud & Web Service Data Protection

Data Protection



Identify, and Prevent sensitive data from being sent to uncontrolled Cloud and Web services.

Threat Protection



Detect malware sent to or from Cloud services or being executed from a trusted cloud

Insider Protection

Insider Threat Protection



Control access to unmanaged cloud services and prevent data exfiltration

Questions?

Visit the Netskope Booth

