

# Konsep IT Risk

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# Definition Aset

Any ITEM that has value to an organization

Aset IT barang yang dinilai oleh Perusahaan atau organisasi yang dapat memberikan manfaat pada kegiatan Operasional Perusahaan yang berwujud maupun tidak berwujud dan dapat dijadikan sebagai model Perusahaan / asuransi (Ruly Antony 2008)



# IT Asset

- Desktops PCs and laptops
- Mobile devices and wireless networks (e.g., PDAs, Wi-Fi/Bluetooth devices)
- Application servers, mainframes
- Mail servers
- Web servers Database servers (data warehouses, storage) as well as the entire universe of corporate data, records, memos, reports, etc.
- Network elements (switches, routers, firewalls, appliances, etc.)
- PBXs, IP-PBXs, VRUs, ACDs, voicemail systems, etc.
- Mobility (support) systems (Virtual Private Network nodes, wireless e-mail servers, etc.)

# Aset

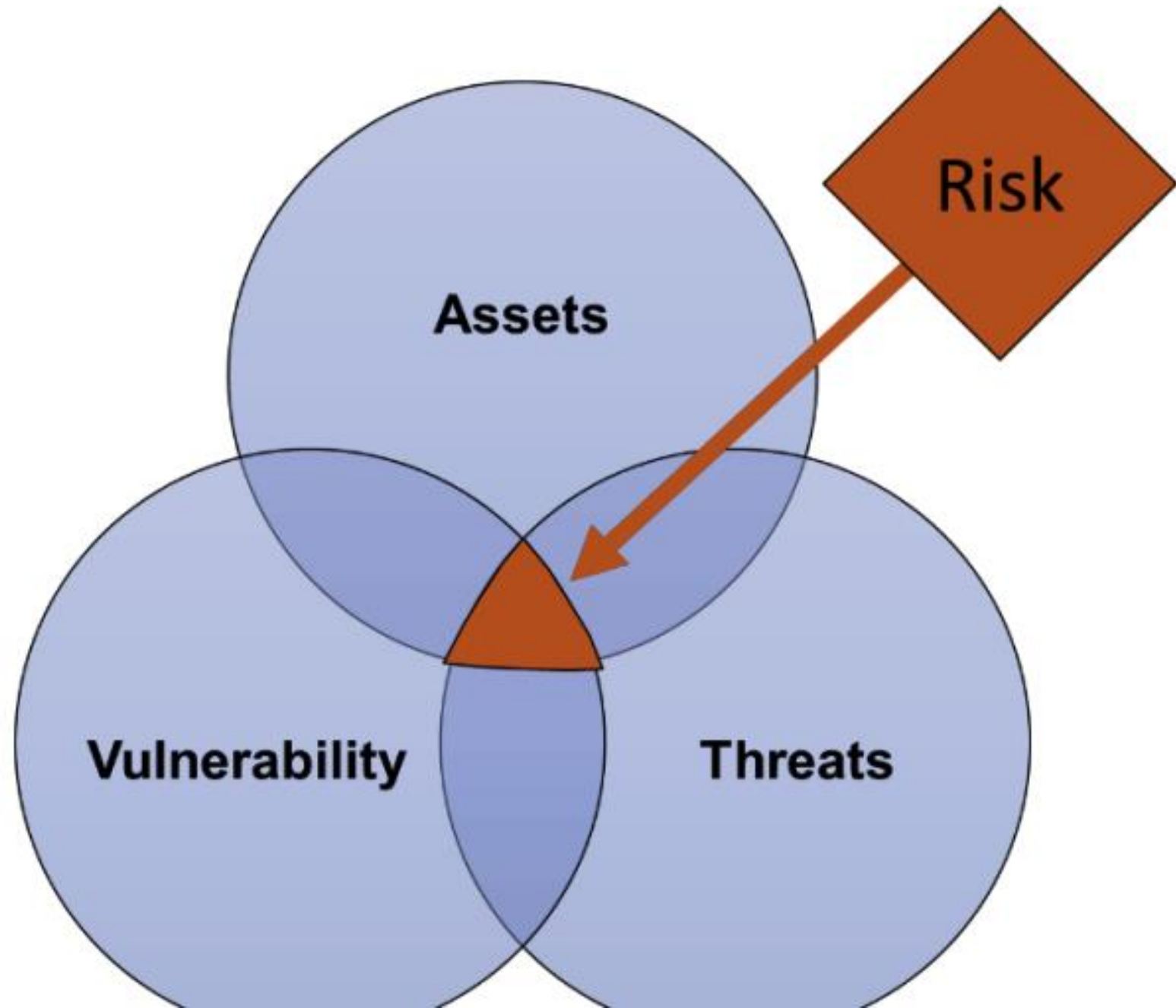


- TANGIBLE



- INTANGIBLE

# What is Risk?



## Definition

# Vulnerability

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**Any weakness in the system design, implementation, software code, or lack of preventative mechanisms**

# Vulnerability

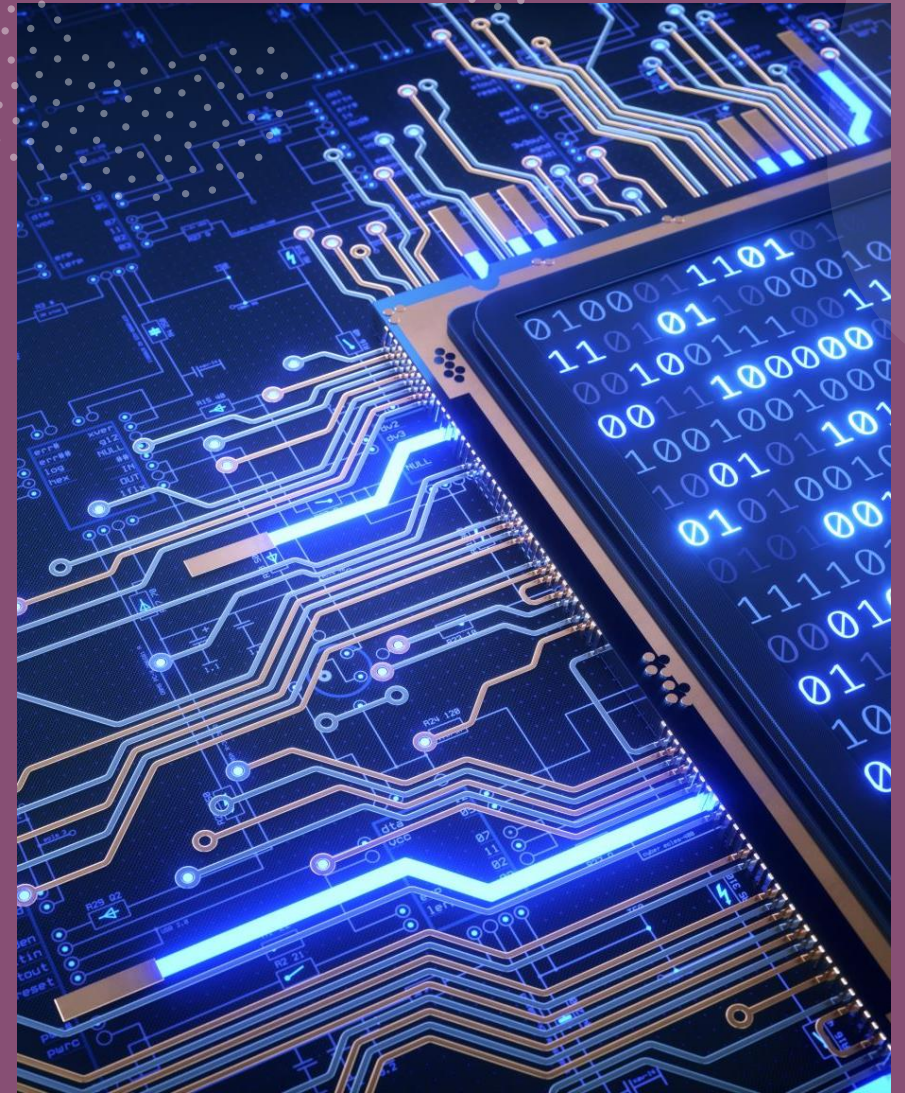
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- Any weakness in the system design, implementation, software code, or lack of preventative mechanisms
- Cybersecurity and IT professionals are in control of vulnerabilities in their platforms
- Vulnerabilities are internal factors



# Cyber Threat

- Cyber threat adalah ancaman maupun serangan cyber security yang dilakukan oleh pihak yang tidak bertanggung jawab melalui jaringan internet atau komputer.
- Serangan cyber dapat berupa peretasan, pencurian data, pemalsuan identitas, dan pemusnahan data





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## Threat

- Any condition that could cause harm, loss, damage, or compromise to an asset
- Cybersecurity and IT professionals cannot control threats in their platforms
  - Can only manage and mitigate them
- Threats are external factors

# Jenis Threat

Trust insiders

Competitor, Supplier, Customer

Business Patners

Nation States



# Risk

- Any Situation that involves exposing something of value to danger

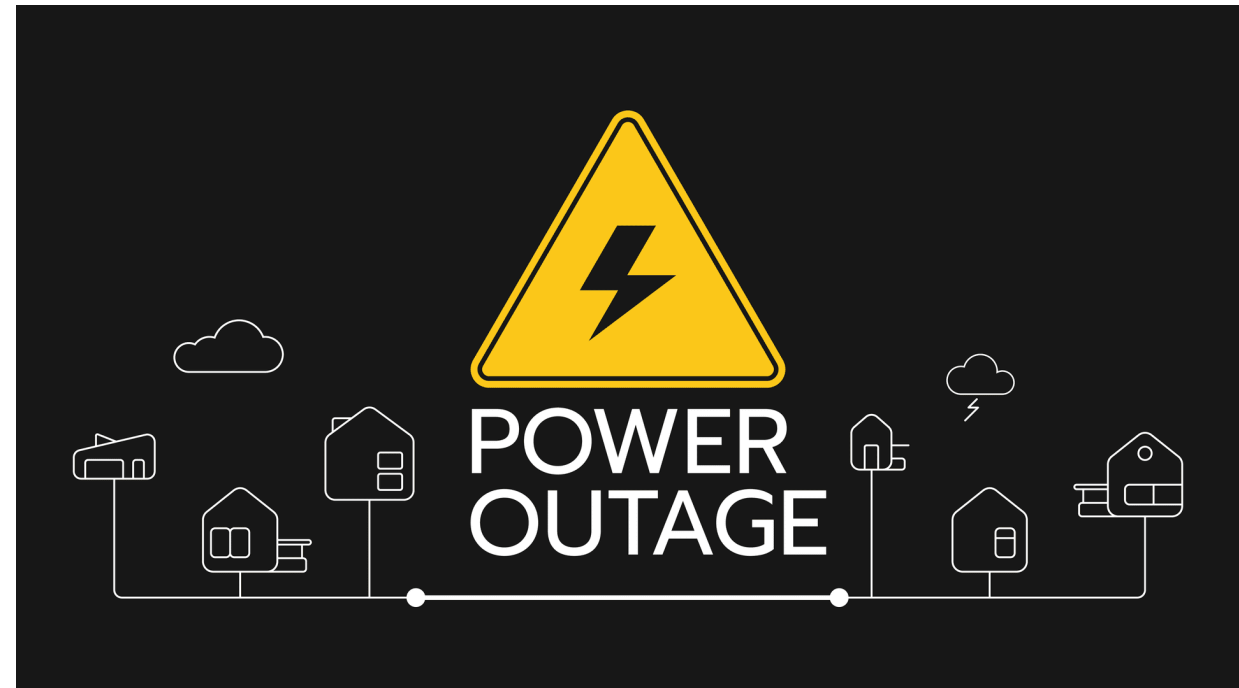
# Operational Risk internal

Process

People

System

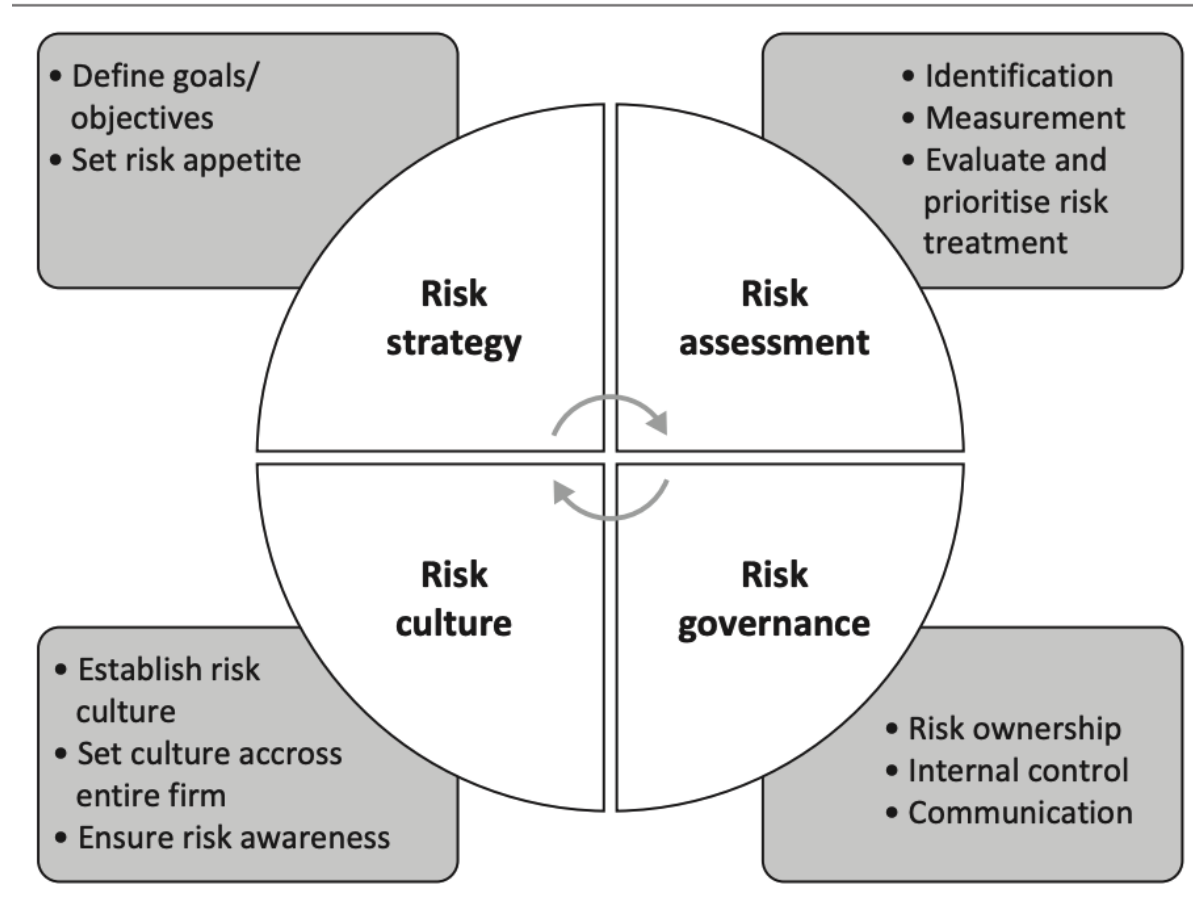
# Eksternal risk



# Reputational risk management

- Reputational risk can be defined as the risk of failure to fulfil customer expectations with regard to performance and behaviour (Fitzsimmons & Atkins 2017:39; Roehrich et al. 2014:698).
- The expectations of customers can be compromised through events that stem from both external and internal events.

# Reputational risk management framework



# 4 dasar mengurangi resiko

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- Menghindari (Avoid)
- Mengurangi (Mitigate)
- Memindahkan (Transfer)
- Menerima (Accept )



# Menghitung Resiko

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Qualitative Risk Analysis  Quantitative Risk Analysis

Terima kasih