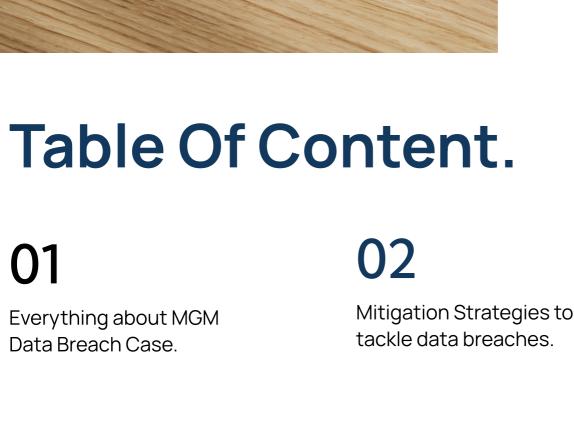


Guide to Mitigate Cyber Threats & Key business takeaways from

The Ultimate Guide



Coretcloud

Key Takeaways for Conclusion. businesses.

Everything you need to know **MGM Resorts** about the MGM Data breach Case International

Caretaloud

MGM's network by configuring an entirely additional Identity Provider (IdP) in the Okta tenant using a feature called "inbound federation." The function is intended to allow the fast connection of different Okta tenants during mergers of companies.

It also appears that the attackers gained control not only

environment. This already jeopardized the applications

managed by the IAM platform, but now all their cloud

of Okta but also of the Microsoft Azure cloud

assets were also in danger.

www.caretcloud.com 3 Allegedly, a criminal gang made up of U.S. and U.K.-based

Global hospitality

and entertainment

attack that led to the

near shutdown of MGM

Resorts International.

widely used in the hospitality industry. This caused cascading chaos. As the ESXi hosts became encrypted one after another, the applications running on them crashed ... one after another ... after another. Hotel room keys no longer worked. Dinner reservation systems were down. Point-of-sale systems were unable to

potentially its credibility.

the MGM network.

losing as much as \$8.4 million in revenue every day until it fixes the problems caused by the ongoing cyberattack. There is still so much to this story that we won't know the full extent of the damage for guite some time.

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still unknown. Still, gaming industry analyst David Katz says that MGM Resorts is

Using this RaaS service, Scattered Spider encrypted several hundred of their ESXi servers, which hosted thousands of VMs supporting hundreds of systems

take payments. Guests were unable to check in or out. Slot machines were completely unavailable. At this point, MGM was hemorrhaging money - and

1. Contain Impact Minimizing exposure of privileged accounts is vital in mitigating phishing attempts. IT administrators should use <u>privileged access management (PAM)</u> solutions, reducing the risk of compromise through attacks (including vishing). Organizations should also consider implementing zero standing privilege (ZSP) where applicable. 2. Improve MFA Control Creating visibility into MFA device changes is essential. Implementing specific

logs for customers to monitor in their security information and event management (SIEM) systems can help detect and respond to unusual

your Secure Zones.

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dual access controls to access credentials).

valuable insights into potential security breaches.

authentication activities. Additionally, implementing a dual control feature can

Manage IdP administrator accounts in the same way database/domain admin accounts are managed (i.e., through privileged access controls such as rotating

administrator passwords, monitoring/isolating admin sessions and enforcing

Monitor trust changes, such as identity provider (IdP) modifications – it's essential for detecting suspicious activities. Organizations should consider

implementing specific logs to track and analyze trust changes, providing

enhance security by requiring multiple authorizations for critical actions.

Mitigation Strategies to

tackle data breaches

Mitigation Strategies

to tackle data breaches

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• Employ helpdesk verification controls (i.e., the helpdesk may only reset a password once the user has verified their identity through a pre-existing enrolled MFA factor).

• Identify secure zones in your network. Understand network traffic to your IdP that does not meet your expectations. Limit actions that can be taken outside of your

 Manage IdP administrator accounts in the same way database/domain admin accounts are managed (i.e., through privileged access controls such as rotating

Always check a user's device enrollment/compliance before allowing a user

administrator passwords, monitoring/isolating admin sessions and enforcing dual access controls to access credentials). Monitor trust changes such as identity provider (IdP) modifications – it's essential for detecting suspicious activities. Organizations should consider implementing specific logs to track and analyze trust changes, providing valuable insights into potential security breaches.

(especially an administrator) access to your IdP.

Businesses.

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Key Takeaways For

The Importance of Cybersecurity Layers: One of the key lessons from the MGM cyber attack is the critical importance of recognizing that relying

sophisticated cyber threats. MGM's breach serves as a stark reminder of

cybersecurity by implementing multiple layers of defense. This can include

Regular security audits and updates: Cyber threats evolve rapidly, and

vulnerabilities. Regular security audits and system updates are essential to

ensuring that a company's defense mechanisms are up-to-date and

Incident Response Plan: MGM Resorts International faced significant

incident response plan. Businesses should have a clear protocol in place to

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chaos during the cyberattack, highlighting the need for a well-defined

respond swiftly and effectively in the event of a breach. This includes

communication plans to keep stakeholders informed and minimize

firewalls, intrusion detection systems, endpoint security solutions, and

on a single security measure is not enough to protect against

this fact. Businesses must adopt a comprehensive approach to

businesses must stay proactive in identifying and addressing

Businesses.

robust employee training programs.

capable of fending off modern threats.

Coretcloud **Key Takeaways For**

Employee training and awareness: Human error is a significant factor in

emails or use weak passwords, making it easier for attackers to gain access

to systems. In the case of MGM, hackers appear to have employed social

another Las Vegas casino fell victim to a serious ransomware incident.

Caesars Entertainment says their customer data was accessed following

an attack on an unnamed third-party IT vendor. Businesses must assess and manage the cybersecurity risks associated with their ecosystem of

suppliers, partners, and service providers to mitigate external

many cyber incidents. Employees may inadvertently click on phishing

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- Solutions.
- **03.** Cloud Security GAP Identification and Remediation. **04.** Monitoring and Threat Detection by Building SOC and SIEM dashboards. **05.** 24/7 Continuous Monitoring and Threats detection by managed SOC.

- MGM Data breach case
- 03 ()4www.caretcloud.com 2

A social engineering attack allowed the threat actor to burrow into the MGM environment and establish a foothold. Due to the common mistake of password reuse. attackers had usernames and passwords from previous data breaches. With additional information collected from a high-value user's LinkedIn profile, they hoped to dupe

the helpdesk into resetting the user's multi-factor

Based on available information, as it currently stands,

threat actors also were observed creating persistence in

authentication (MFA). They were successful.

MGM Data breach Case MGM team completely terminated the Okta platform and the threat actors' access initial access. HOWEVER, the damage had been done. The threat actors had already exfiltrated unknown terabytes of data and still had access to the cloud platform. It was time to make their presence known.

Once the threat actors acquired their initial foothold, they could begin to escalate their privileges. They ultimately acquired the privileged access to the accounts running the IAM infrastructure. This allowed them significant access to The full extent of what systems were compromised and what data was leaked is

infrastructure. Implementing [endpoint privilege security] on federation servers can unauthorized access to Tier 0 assets by limiting access to proxies along with dual controls is crucial. 4. Adopt IdP Best Practices • Implement MFA controls before allowing users to change/alter their MFA factors (i.e., you must present a current MFA factor before altering one of your MFA factors enrolled).

Secure Zones.

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3. Protect Tier 0 Assets

Businesses.

vulnerabilities.

damage.

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Caretcloud Offers

Detection and Prevention System.

02. Independent Cloud Security Assesment.

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01. Implement robust cyber security layers by implementing an Intrusion

company, with a portfolio of 29 hotel and resort properties, including iconic brands like Bellagio, MGM Grand and Mandalay Bay. individuals that cybersecurity experts call Scattered Spider (aka Roasted Oktapus, **UNC3944** or Storm-0875) initiated a social engineering

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Tier 0 assets must be protected, including signing keys and access to critical help safeguard signing keys from credential theft attempts. Furthermore, preventing

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Key Takeaways For

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engineering by impersonating employees and making a fraudulent call to the service desk. Regular cybersecurity training and awareness programs can help employees recognize and respond to potential threats effectively. Third-party risk management: Just weeks before the MGM breach,

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