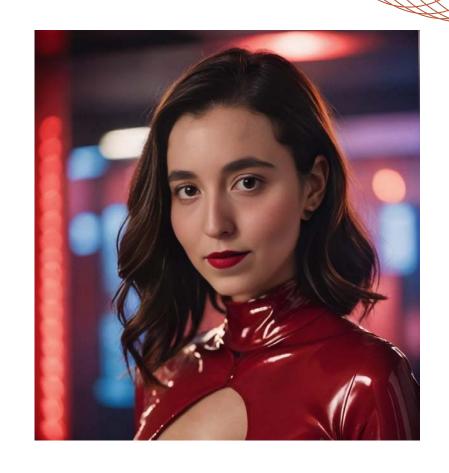


# Securing the Sky: Strategies for Protecting Against Cloud Hacking

**Sena Yakut** 

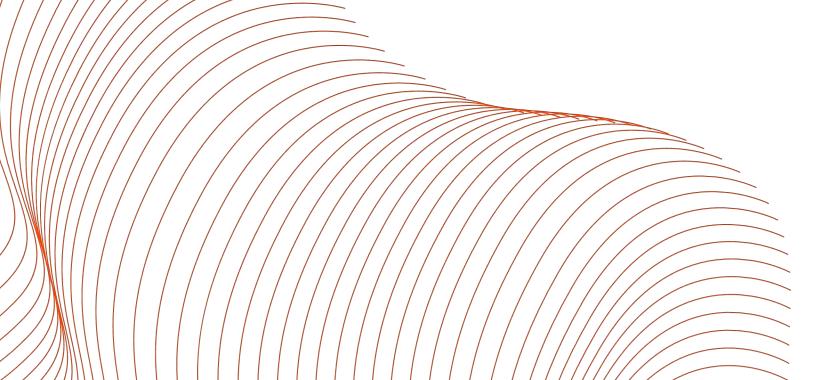




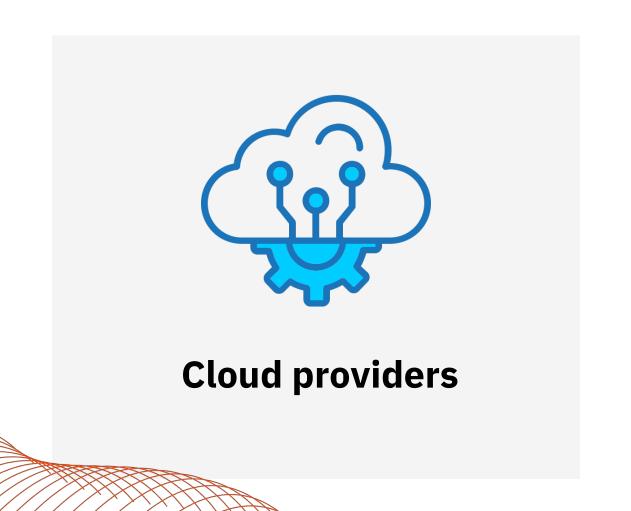




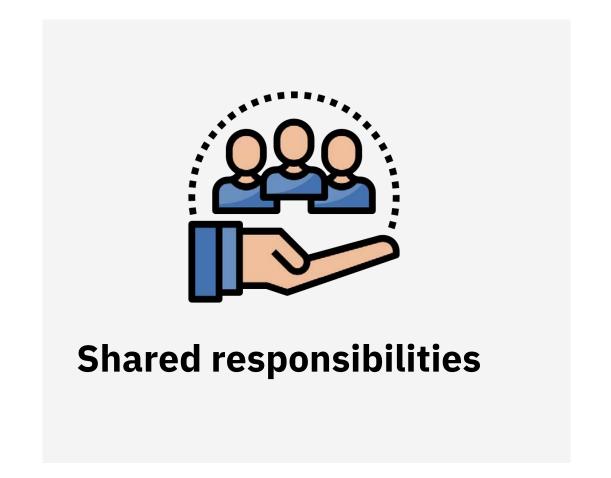




# Cloud security: Management nightmare

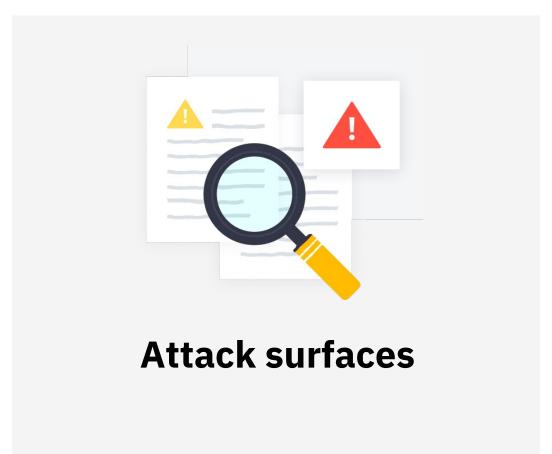






# Cloud security: Management nightmare

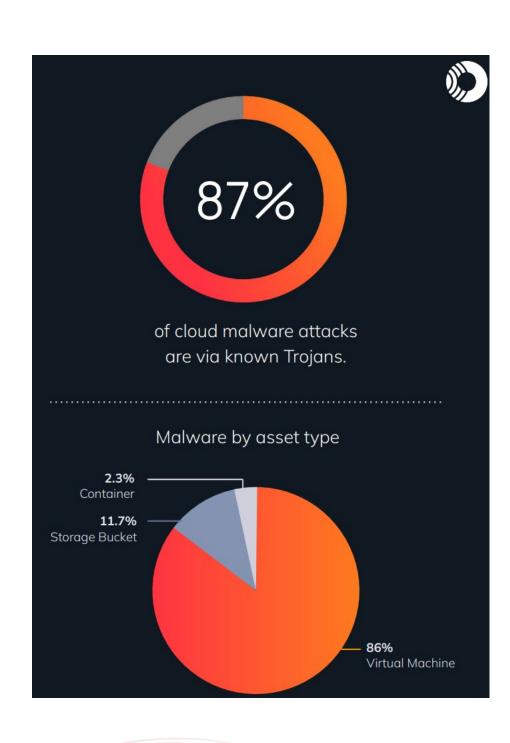






# We love the cloud, so attackers do.

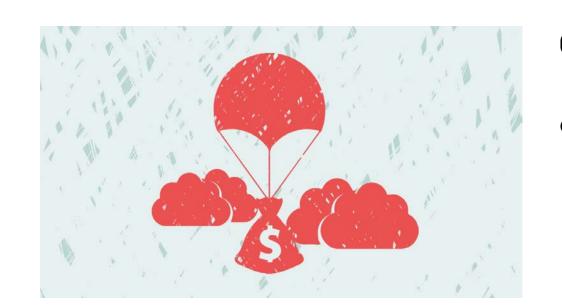




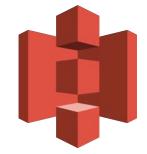


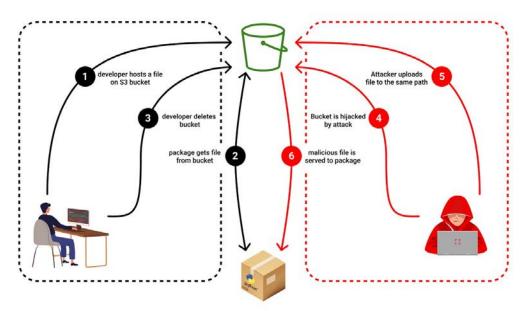
# Do not use public resources unless you really really need.

- Storage resources (Azure Blob, AWS S3, EBS, EFS),
- Exposed sensitive data,
- Container registries -> Getting credentials from it,
- Write to public resources & destroy environments,
- Denial of Wallet amplification attack —> AWS S3,
- Publicly accessible databases,
- Amazon SageMaker publicly accessible notebooks.









**Registry type** 

66% Public

34% Private 🔓

# Be aware of your resources.

- Which resources, where and why?
- What are the possible vulnerabilities?
- What are the misconfigurations?
- What are the endpoints?

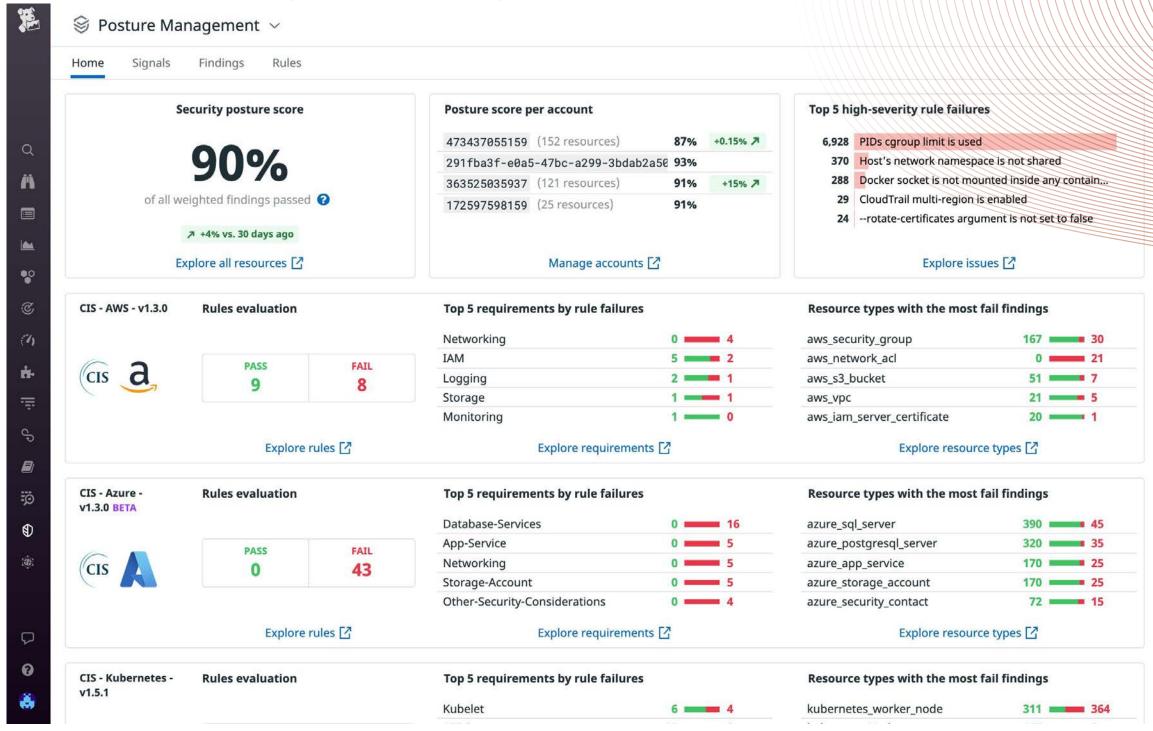






## Be aware of your resources.

CSPM is not enough, but it is a good start.



#### Please read the documentation.

- The following documentation ensures that security features are configured correctly,
- Maximizing protection against threats,
- Cloud engineers are updated on new security features and best practices,
- Maximizing the use of documentation minimizes reliance on external support, saving time and resources.



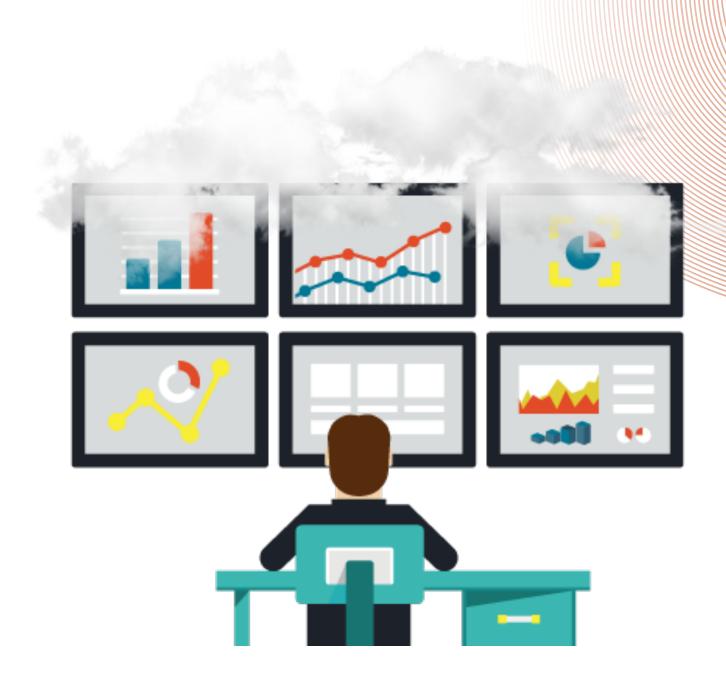
# Get alert from everything you need.

- Anomalies,
- Cloud resource threats,
- Cloud resources configuration changes,
- Verify alerts and get details from it,
- Have a plan for alerts.



# Monitor everything.

- Constant monitoring enables early detection of suspicious activities or anomalies.
- Timely monitoring allows for rapid response to security incidents.
- Monitoring provides valuable insights into emerging threats and attack patterns.
- Monitoring resource usage helps control costs and prevent unnecessary expenses.



## Dance like no one is watching. Encrypt like everyone is.

- Encrypt in transit,
- Encrypt in rest,
- Follow best practices in the encryption stage,
- Follow up cyber security world for encryption changes



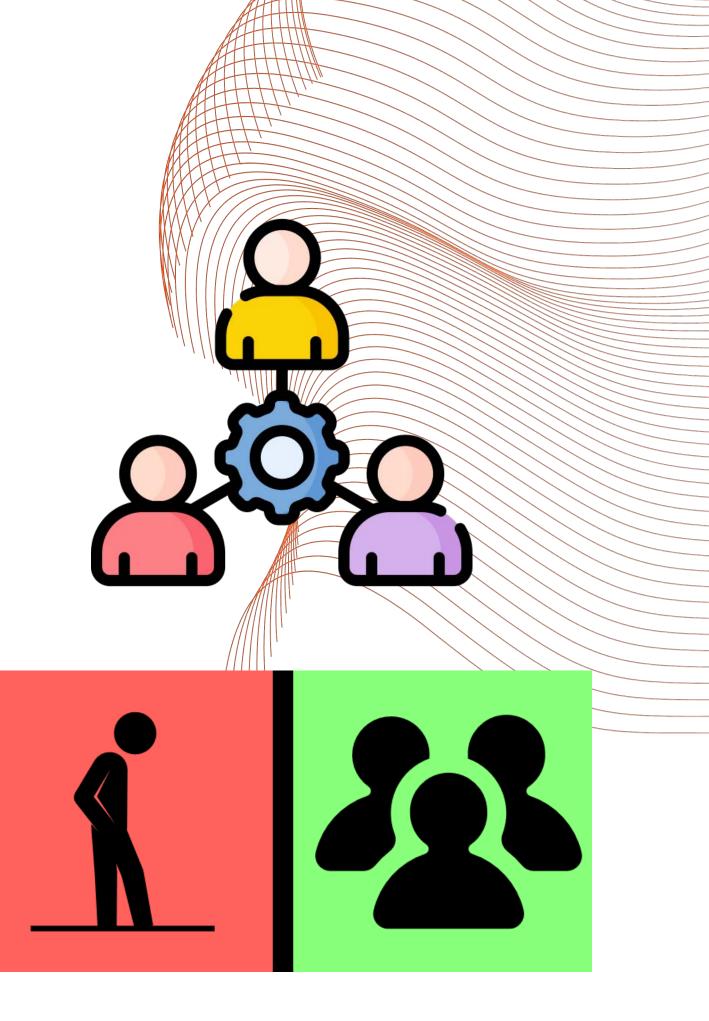
# Be open to change.



#### Do not isolate teams.

- Everyone needs security,
- Each team brings unique skills and perspectives to the table,
- Improved visibility across teams helps identify and address security risks more effectively,
- Avoid duplication of efforts and resources,





#### Think 'what if'

- Consider potential scenarios and their impacts on cloud security posture,
- Identify vulnerabilities and weaknesses before they can be exploited,
- Use 'what if' scenarios to drive ongoing security enhancements and updates,
- Evaluate how different scenarios may affect regulatory compliance and take necessary precautions.









