# CloudiQS - AWS Security & Identity

CloudiQS ensures businesses meet their security, compliance, and identity management needs by leveraging the right AWS services to maintain robust, scalable, and secure cloud environments.

## AWS Firewall Manager:

**Customer Challenge** – Managing security policies across multiple AWS accounts becomes cumbersome as businesses expand, especially for clients managing resources in multiple regions. Startups may find it difficult to enforce consistent security standards.

**CloudiQS Solution** – By using AWS Firewall Manager, we enable our clients to apply and manage security policies centrally across all their AWS accounts, ensuring compliance with organizational standards and reducing the risk of misconfigurations.

## AWS Artifact:

**Customer Challenge** – Customers must comply with strict industry regulations but face delays in accessing compliance reports, risking audit failures. For example, SMBs in the healthcare sector need to quickly demonstrate HIPAA compliance for partners. **CloudiQS Solution** – We utilize AWS Artifact to give customers immediate access to compliance reports, enabling them to swiftly present the necessary documents during audits, reducing downtime and the risk of penalties.

## AWS Audit Manager:

**Customer Challenge** – As businesses scale, tracking compliance across multi-cloud environments becomes challenging, often leading to misalignment with internal policies. Startups frequently struggle to implement continuous compliance. **CloudiQS Solution** – We set up AWS Audit Manager to automate the auditing process, helping companies maintain continuous compliance by generating evidence automatically and assessing risk based on pre-built frameworks like PCI DSS or ISO 27001.

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## Amazon Cloud Directory:

**Customer Challenge** – Applications that need to store and retrieve complex hierarchies often experience performance bottlenecks, especially as they scale to manage millions of data points. For instance, a tech startup's SaaS platform struggles to manage hierarchical user roles.

**CloudiQS Solution** – By implementing Amazon Cloud Directory, we help businesses efficiently scale directory-based applications to manage complex data structures, ensuring smooth performance as the application grows.

## Amazon Cognito:

**Customer Challenge** – Startups often find it difficult to securely manage identity and access, especially when dealing with multiple user bases across apps. A SaaS provider may need a unified solution for authentication across different client apps.

**CloudiQS Solution** – We leverage Amazon Cognito to implement multi-factor authentication, social logins, and secure user pools, simplifying identity management while ensuring robust security measures like OAuth2 and JWT.

## Amazon Detective:

**Customer Challenge** – As the attack surface expands, clients face difficulties identifying and analysing security anomalies quickly. For instance, an e-commerce startup struggles to investigate complex billing anomalies and unusual data access patterns.

**CloudiQS Solution** – We use Amazon Detective to centralize and automate investigation workflows, helping businesses quickly detect and analyse root causes, reducing investigation time and improving incident response efficiency.

## AWS Directory Service:

**Customer Challenge** – Integrating existing on-premises Microsoft Active Directory with AWS workloads proves complex, especially when adding new cloud services. Companies find it challenging to synchronize user identities across hybrid environments.

**CloudiQS Solution** – We implement AWS Directory Service to securely extend on-premises AD infrastructure, allowing seamless integration with cloud services like Amazon RDS, ensuring consistent user authentication and simplifying management.

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## Amazon GuardDuty:

**Customer Challenge** – Detecting threats at scale across multiple VPCs can overwhelm internal teams. E-commerce platforms often face undetected brute force or credential-stuffing attacks, leading to potential data breaches.
**CloudiQS Solution** – We implement Amazon GuardDuty to provide real-time threat detection and monitoring, enabling businesses to quickly identify suspicious activities and take pre-emptive security measures.

## AWS Identity and Access Management (IAM):

**Customer Challenge** – Small businesses face difficulties managing user access control as they scale, often leading to over-permissive roles that expose sensitive resources to unauthorized users.
**CloudiQS Solution** – We design granular IAM policies with role-based access control, ensuring that users have the minimum necessary permissions while securely managing access to sensitive AWS resources.

## AWS IAM Identity Centre

**Customer Challenge** – Managing single sign-on (SSO) for employees across multiple AWS accounts can be cumbersome, especially when dealing with numerous third-party SaaS applications.
**CloudiQS Solution** – We deploy AWS IAM Identity Centre to enable single sign-on (SSO) for multiple AWS accounts and external applications, streamlining user access management while improving security and productivity.

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## Amazon Inspector:

**Customer Challenge** – Continuously assessing vulnerabilities in large, dynamic environments becomes increasingly challenging as startups scale. For instance, healthcare applications may need constant validation to ensure they meet HIPAA security requirements.

**CloudiQS Solution** – We automate vulnerability assessments using Amazon Inspector, providing ongoing, real-time evaluation of EC2 instances and container workloads, ensuring that security gaps are quickly identified and addressed.

## Amazon Macie:

**Customer Challenge** – Companies struggle to manage sensitive data like personally identifiable information (PII), especially as they scale. Startups often lack the resources to discover and protect this data at scale.

**CloudiQS Solution** – We implement Amazon Macie to automatically discover and classify sensitive data, ensuring that businesses can track and protect sensitive information such as PII, helping them comply with privacy regulations like GDPR and CCPA.

## AWS Network Firewall:

**Customer Challenge** – As clients scale their cloud presence, they face difficulties managing network security across various AWS accounts and VPCs. For example, our customers a financial institutions need consistent firewall rules to protect confidential data flows.

**CloudiQS Solution** – We use AWS Network Firewall to deploy consistent firewall policies across all customer VPCs, ensuring traffic is secured with advanced threat protection measures such as intrusion detection and prevention systems (IDPS).

## AWS Secrets Manager

**Customer Challenge** – Managing application secrets, such as API keys and database credentials, can lead to security risks when hardcoded into applications.

**CloudiQS Solution** – We implement AWS Secrets Manager to securely store and rotate application secrets, ensuring sensitive information is protected and only accessed when necessary.

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