AWSSECURITY AUDIT

JULY 2025

Prepared by

A Cloud Wizard

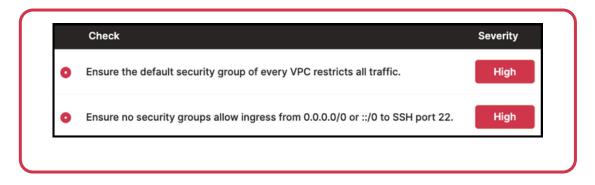


SECURITY AUDIT - FINDINGS

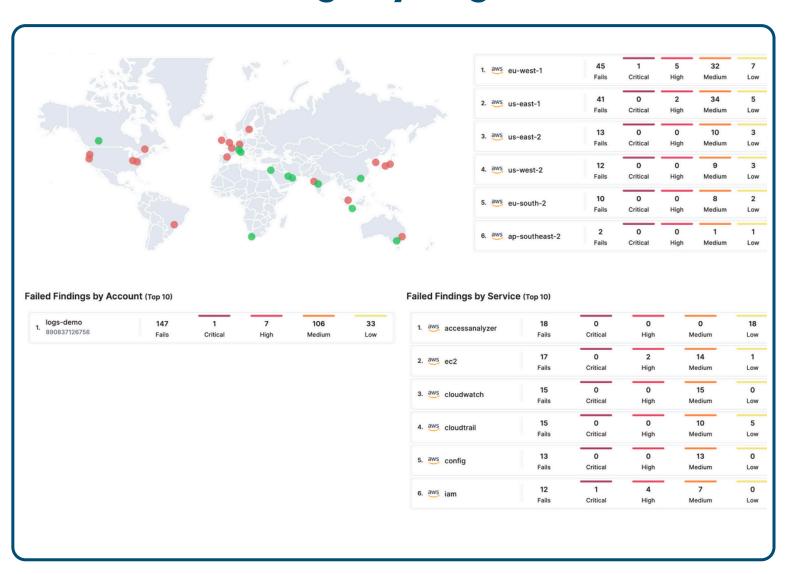
Findings by Status and Severity



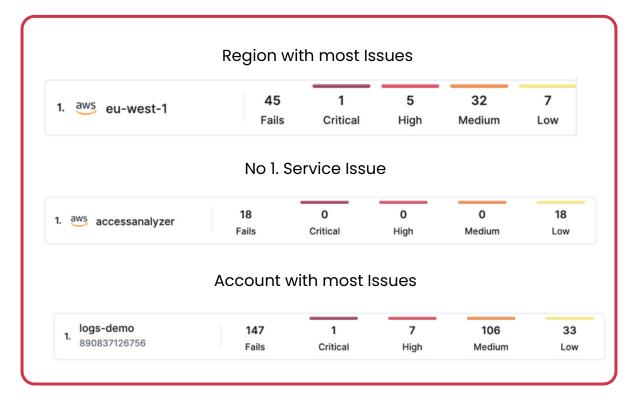
Urgent Findings - Immediate Action Needed



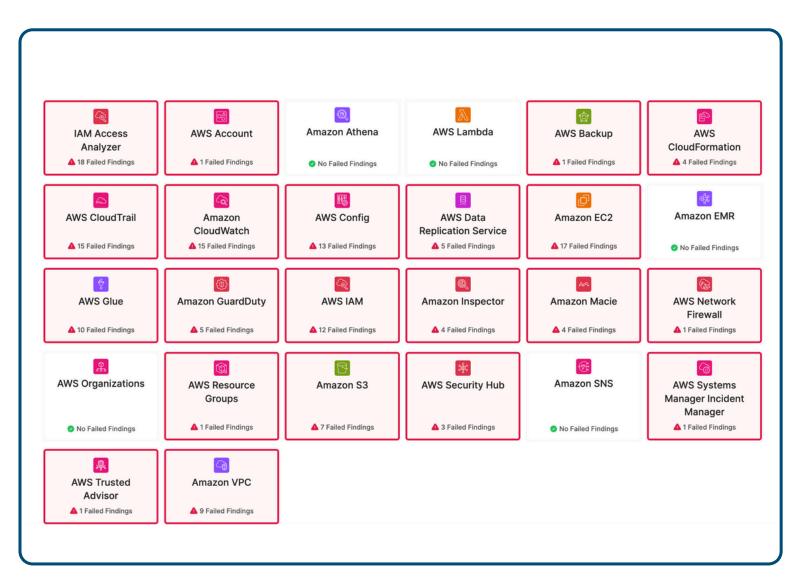
Findings by Region



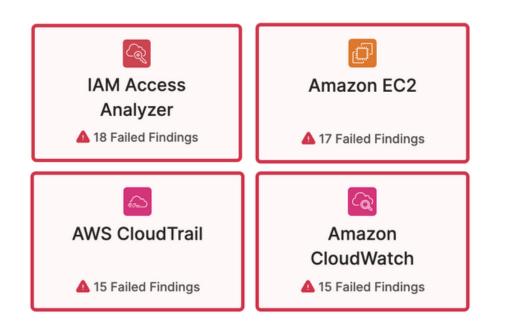
Top Region Security Failures



Findings by Services



Top Service Security Failures



Findings by Severity

Check	Severity ↑	Status	Region	Service	Account
Ensure MFA is enabled for the root account	▲ Critical	FAIL	eu-west-1	iam	logs-demo (890837126756)
Ensure IAM AWS-Managed policies that allow full "*:*" administrative privileges are not attached	High	FAIL	eu-west-1	iam	logs-demo (890837126756)
Ensure the default security group of every VPC restricts all traffic.	High	FAIL	us-east-1	ec2	logs-demo (890837126756)
Ensure no security groups allow ingress from 0.0.0.0/0 or ::/0 to SSH port 22.	High	FAIL	us-east-1	ec2	logs-demo (890837126756)
Check S3 Account Level Public Access Block.	High	FAIL	eu-west-1	s 3	logs-demo (890837126756)
Ensure IAM Roles do not have AdministratorAccess policy attached	High	FAIL	eu-west-1	iam	logs-demo (890837126756)
Ensure IAM Service Roles prevents against a cross-service confused deputy attack	High	FAIL	eu-west-1	iam	logs-demo (890837126756)
Ensure IAM Roles do not have AdministratorAccess policy attached	High	FAIL	eu-west-1	iam	logs-demo (890837126756)
Ensure DRS is enabled with jobs.	Medium	FAIL	us-east-2	drs	logs-demo (890837126756)
Ensure AWS Config is enabled in all regions.	Medium	FAIL	sa-east-1	config	logs-demo (890837126756)
Ensure DRS is enabled with jobs.	Medium	FAIL	eu-south-2	drs	logs-demo (890837126756)

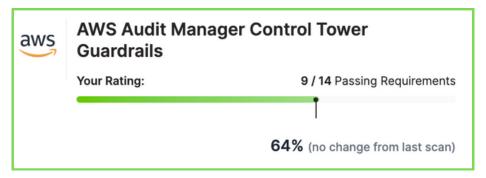
Critical Failures

Check	Severity ↑	Status	Region	Service
Ensure MFA is enabled for the root account	▲ Critical	FAIL	eu-west-1	iam

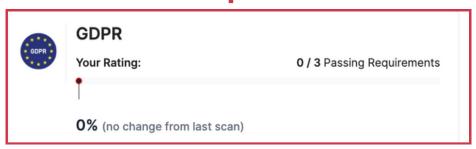
Compliance



Highest Compliance Score



Lowest Compliance Score



Recommendations

Strengthen IAM Access Controls

- Implement the principle of least privilege by regularly reviewing IAM policies to ensure users and roles have only the permissions necessary for their tasks.
- Enable multi-factor authentication (MFA) for all IAM users, especially those with administrative privileges.
- Use AWS IAM Access Analyzer to identify unused permissions, overly permissive policies, or external access to resources.

Enhance AWS CloudTrail Configuration

- Ensure CloudTrail is enabled for all AWS regions and configured to log all API activities, including read and write events.
- Enable log file integrity validation to detect unauthorized changes to CloudTrail logs.
- Store CloudTrail logs in a secure, centralized S3 bucket with restricted access and lifecycle policies to manage retention.

Optimize AWS CloudWatch

- Configure CloudWatch Logs to capture and analyze logs from CloudTrail, VPC Flow Logs, and other critical services for real-time monitoring.
- Set up CloudWatch Alarms to alert on suspicious activities, such as unauthorized API calls or changes to critical resources.
- Integrate CloudWatch with AWS Security Hub for centralized visibility into security alerts and compliance status.

General Security Best Practices

- Conduct regular security assessments using tools like AWS Trusted Advisor and AWS Config to identify misconfigurations and compliance issues.
- Encrypt sensitive data at rest and in transit using AWS Key Management Service (KMS) and enforce SSL/TLS for all communications.
- Implement automated remediation for common issues using AWS Systems Manager or Lambda functions triggered by CloudWatch Events.