

About Skyhigh for AWS

Skyhigh for AWS extends Skyhigh features to monitor, secure, and audit AWS environments for threat protection, anomaly detection, configuration audit, and forensic audit logs. Skyhigh provides this capability by leveraging public AWS APIs.

Skyhigh for AWS has SOC-sepecific threat protection and incident response workflows to remediate potential insider threats, privileged user threats, and compromised accounts.

CloudTrail Logging

Leveraging AWS CloudTrail, Skyhigh for AWS captures activities to give new insight into activities, and to support postincident investigations and forensics.

CloudTrail logs are used to profie current cloud application security settings and suggests modifications to improve security based on industry best practices. Skyhigh continuously monitors AWS configuration against regulatory requirements to streamline internal and external audits, such as ISO 27008, PCI, HIPAA, etc.



	Services	Users	Data	Sec	urity	Risk			
ervices							Jan 10, 2017	′ - Jan 29, 2017	
ew services 1,735	CLOUD SERVICE		е нісн 6				ser / IP ADDRE		
op Service Categories by Number of	Services Used			High Risk Service					
0 50 100 Marketing	150 200 250	300 350 400	450	VICE NAME/CATEGORY The Pirate Bay Content Sharing	UPLOAD DATA	UPLOAD COUNT 852	USERS 2	ALLOWED	DENIED
Collaboration			Ø	Sendspace Cloud Storage	9.9 GB	92	12	42%	58%
Media			Ø	Bilder-Upload Content Sharing	7.5 GB	253	2	100%	0%
Finance			0	MasterDisk Cloud Storage	883.7 MB	769	1	100%	0%
Development Content Sharing			0	WikiSend Cloud Storage	263.7 MB	147	11	100%	0%
Cloud Storage			0	PDFUnlock Collaboration	16.5 MB	2	2	100%	0%
Business Intelligence			0	PDF Split Collaboration	12.6 MB	18	1	100%	0%
HR			0	freepdfconvert Collaboration	9.8 MB	1	1	100%	0%
IT Services			0	Fastupload Cloud Storage	8.8 MB	1,083	675	0%	100%
Low Risk	Medium Risk 📕 High	Risk	0	PDF to DOCX Collaboration	8 MB	1	1	100%	0%

Analytics

Skyhigh for AWS uses existing analytics capabilities, customized for AWS deployments:

- Account Access Analytics. Identifies inactive user accounts and former employees who retain access to AWS so their accounts can be deleted to reduce latent risk.
- User Behavior Analytics. Automatically builds a self-learning model based on multiple heuristics and identifies patterns of activity indicative of a malicious or negligent insider threat.
- **Privileged User Analytics.** Identifies excessive user permissions, inactive administrator accounts, inappropriate access to data, and unwarranted escalation of privileges and user provisioning.
- Account Compromise Analytics. Analyzes login attempts to identify impossible cross region access, brute-force attacks, and untrusted locations indicative of compromised accounts.

Activity Monitoring

Activity Monitoring in Skyhigh for AWS means you'll be viewing activities within 10 minutes of an activity occurring (after being logged by CloudTrail).



Activities are categorized into commonly understood categories, meaning your information security team doesn't need to worry about each activity name. The Activity page also includes geo-locations of activities across accounts.

			DLP Incidents 🗸			Threats & Anomalies V Use			User Ac	ser Activity 🗸					
Detivity from		DN WE			ivity x : High x)						+ 🗮	* - 3		
Activity Geo Location					∢ Oc	t/31/16 - Ja	n/22/17								
Celit Categories		Oct 31 MTWTFSS		Nov 14 WTFSS	Nov 21 MTWTFSS	Nov 28 M T W T F S S	Dec 5 M T W T F S S	Dec 12 MTWTFSS	Dec		Jan 2 MTWTFSS	Jan 9 M T W T F S S	Jan 16 MTWTFSS		
ADMII	ANOMALIES NISTRATION ATA ACCESS				- 8										
	DOWNLOAD									-I- IIII					
SER	VICE USAGE			-88 88-	I							U_U_U_			
Users 1 Anoma	alies 1 🕑	Activities 18	3						CSV	🔊 Login Suc			⊡ + csv		
ACTION NAME	USER		SOURCE IP COUNTRY DEVICE			DATE/TIME SERVICE NAME				January 14, 2017 1:36 PM PST					
Revoke DB Security Group Ingress	David Carter		213.205.198.123	OM	n/a		4, 2017 M PST	Amazon Web Services	I	Source					
Delete Bucket	David Carter		213.205.198.123	OM	n/a		4, 2017 M PST	Amazon Web Services		Location London, UK SourceIP 121.32.11.144					
Delete Flow Logs	David Carter		213.205.198.123	OM	n/a		4, 2017 M PST	Amazon Web Services		User David Carter GeoOrgName RKS Corp Asn 21432					
Change Password	David Carter		213.205.198.123	OM	n/a		4, 2017 M PST	Amazon Web Services							
Delete Bucket	David Carter		213.205.198.123	OM	n/a		4, 2017 M PST	Amazon Web Services		▼ Related Items EventCount 1					
Login Success	David Carter		213.205.198.123	OM	n/a		4, 2017 M PST	Amazon Web Services		Directory false FileSharingEnabled false					
Login Success	David Carter		121.32.11.144	UK	n/a		4, 2017 M PST	Amazon Web Services			Name Login S	uccess			
										▼ Additional Info		14 2017 1-24 5	MDCT		
											Stamp Januar Ibjects 0 sed On Januar	y 14, 2017 1:36 P y 14, 2017 1:36 P			

The Omnibar allows you to search and filter for activities by attributes such as user name, IP Address, City, Country, IP Organization, and more. You can download a set of activities in a CSV that can be submitted as forensic evidence.

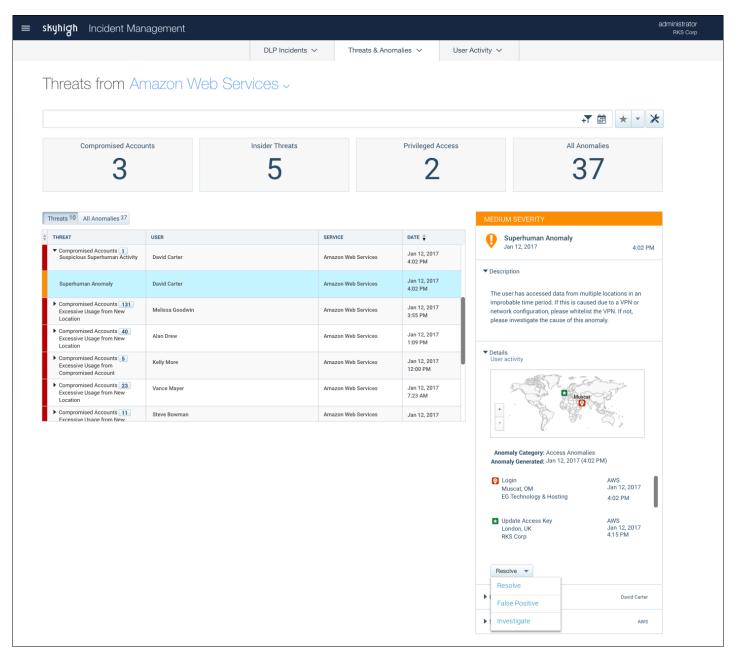
Threat Protection and Anomalies

Skyhigh for AWS detects compromised account threats, insider threats, and privileged access misuse threats. Skyhigh for AWS also ensures a SOC is not flooded by anomalies due to sudden changes in Skyhigh, AWS event feeds or bulk change patterns in usage.



Threat Protection optimizations for AWS include:

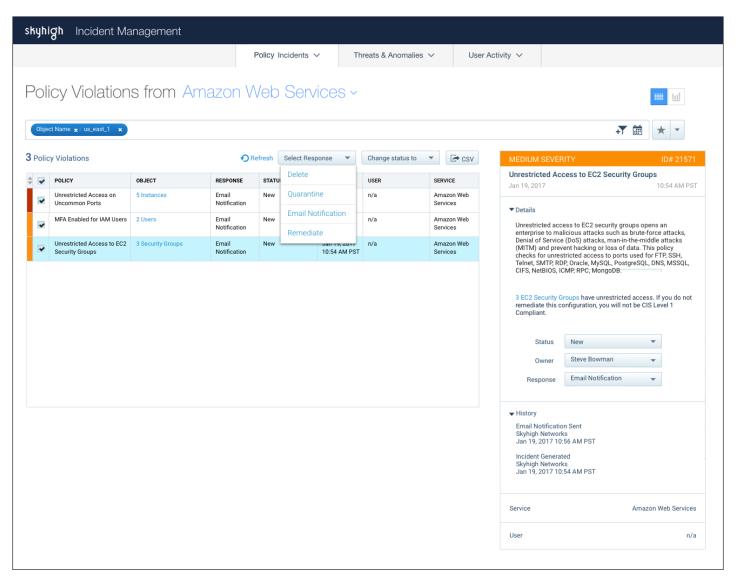
- Correlating multiple anomalous events within AWS or across AWS and other cloud services to accurately separate true threats from simple anomalies.
- Detecting anomalies in usage related to access to AWS, data on AWS or administration of AWS.
- Filtering false positives from anomalies based on machine learning and UEBA.
- Whitelisting of known "good" entities or acceptable risk for the enterprise.
- Throttling of events to accommodate bandwidth in the SOC team.





Compliance Policies

Compliance Policies help you secure many different aspects of your AWS deployment. For a full list of policies, see <u>Skyhigh Compliance Policies</u>.



Security Configuration Audit

Skyhigh for AWS monitors 30 configuration settings that increase the risk profile of AWS deployments across four categories:

- Security Monitoring
- Secure Authentication
- Unrestricted Access
- Inactive Entities



Skyhigh for AWS continuously monitors AWS configuration against regulatory requirements to streamline internal and external audits, such as ISO 27008, PCI, HIPAA, and so on.

