

McAfee MVISION Cloud for Amazon Web Services

McAfee® MVISION Cloud for Amazon Web Services (AWS) is a comprehensive monitoring, auditing, and remediation solution for your AWS environment

Key Use Cases

Security configuration and compliance audit

Audit the configuration of AWS services to identify settings that are insecure or non-compliant and recommend corrective measures.

Activity monitoring

Capture a complete audit trail of all user activity enriched with threat intelligence to facilitate post-incident forensic investigations.

Threat protection

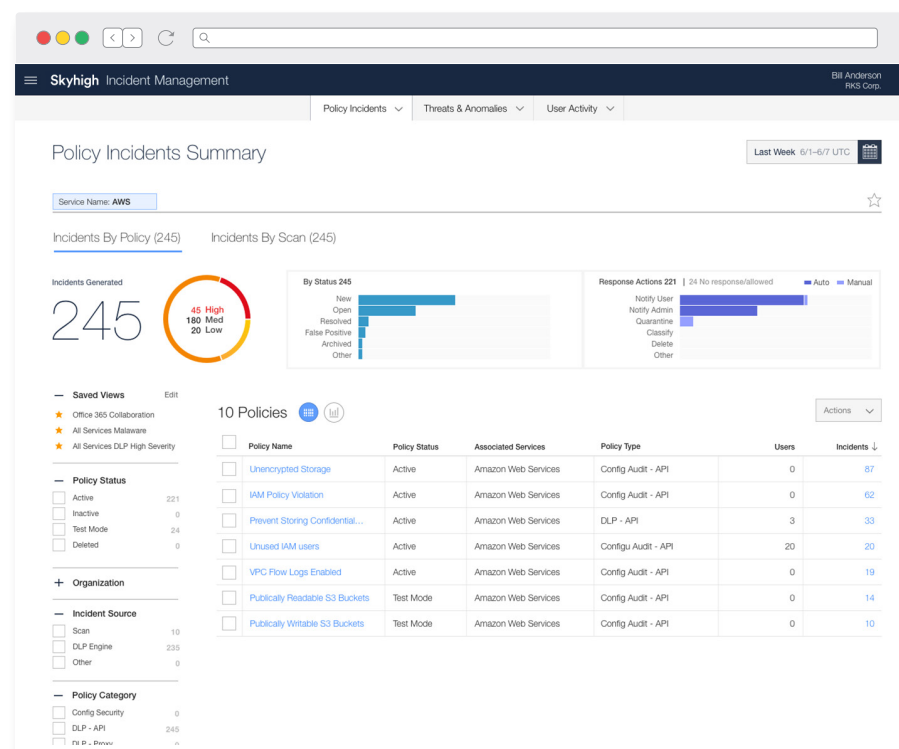
Detect threats from compromised accounts, insider threats, privileged access misuse, and malware infection.

Data loss prevention (DLP)

Enforce DLP policies for sensitive data stored in AWS storage services such as S3 buckets.

Unsanctioned AWS accounts discovery

Identify managed and unmanaged AWS accounts and enforce the same policies across all AWS accounts.



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Security Configuration and Compliance Audit

Audit and monitor the security configurations of all your AWS services to detect and correct misconfigurations to reduce risk and comply with internal/external policies.

Detect misconfigurations for:

- Elastic Compute Cloud (EC2) instances
- Amazon Machine Images (AMI)
- Storage services like S3 buckets, EBS, RDS
- Identity and access management (IAM)
- Logging and monitoring services like CloudTrail
- Network Security Groups and Virtual Private Cloud (VPC) networks

Correct misconfigured services using:

- McAfee recommended best practices derived from existing customers
- Center for Internet Security (CIS) benchmark recommendations levels 1 and 2
- Compliance recommendations for regulations such as HIPAA-HITECH, ISO, FedRAMP, ITAR, or internal compliance policies

The screenshot displays the Skyhigh Policy Management interface. The main view is titled 'Security Configuration Audit' and shows a list of 67 policies for Amazon Web Services. The policies are filtered by 'Service Name: Amazon Web Services'. The table lists various policies such as 'Unrestricted Outbound Access', 'World Readable S3 Buckets', and 'Unrestricted Access to S3 Bucket'. The 'Unrestricted Access to S3 Bucket' policy is highlighted, and a detailed view of this policy is shown on the right. This view includes the policy name, status (Active), service name (Amazon Web Services), and policy category (Secure Config). It also shows the schedule (Runs every 24 hours) and the permissions required for this policy: s3:ListAllMyBuckets, s3:GetBucketAcl, s3:GetBucketLogging, and s3:GetBucketPolicy.

“McAfee’s expansion of its security controls beyond SaaS is a key way IT can empower the business to fully leverage custom applications running in public IaaS, as well as having the confidence in protecting the IaaS platforms themselves.”

—David Smoley, Chief Information Officer, AstraZeneca

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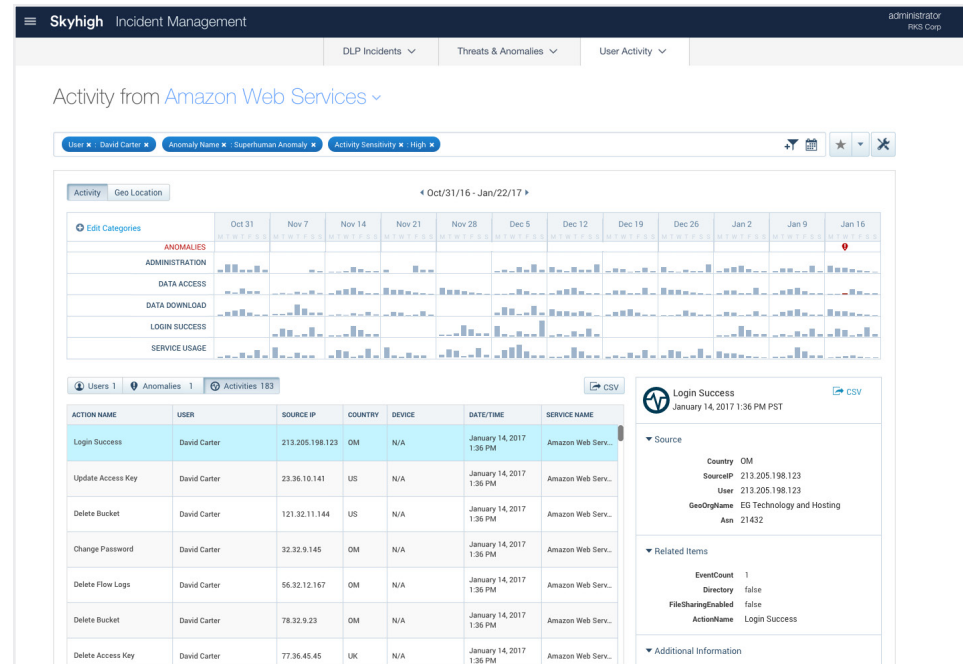
Activity Monitoring

Gain visibility into usage across managed and unmanaged AWS accounts and accelerate post-incident forensic investigations by capturing a comprehensive audit trail of all activity. McAfee captures hundreds of unique activity types and groups them into distinct categories for streamlined navigation. With McAfee, organizations can monitor:

- Usage of managed and unmanaged AWS accounts, who is accessing which services, the types of activities performed, their role, device type, geographic location, and IP address
- Inactive user accounts or former employees who retain access to AWS so their accounts can be deleted to reduce latent risk
- Successful/failed login attempts
- User account creation/deletion as well as updates to accounts by administrators

Drill down further into activity streams to investigate:

- A specific activity and all its associated users
- All activities generated by a single user
- All activities performed by users accessing via TOR or anonymizing proxy
- All activities generated by a specific source IP address or geographic location



“We now have the visibility and control we need to be able to allow access to the cloud-based tools our employees need to be competitive and efficient, without compromising our security standards.”

—Rick Hopfer, Chief Information Officer, Molina Healthcare

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User Behavior Analytics and Malware Detection

McAfee uses data science and machine learning to automatically build models of typical user behavior and identifies behavior that may be indicative of a threat.

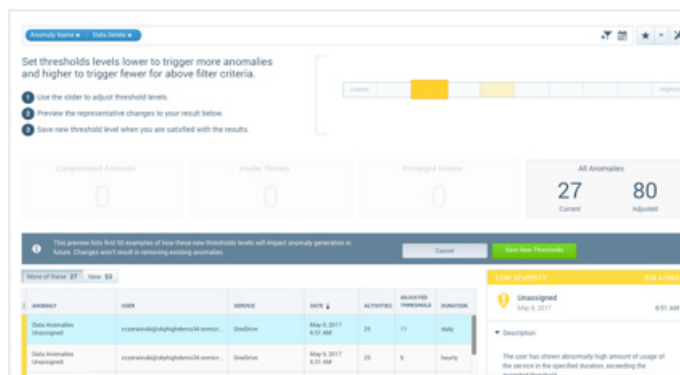
- **Insider threats:** Detect anomalous behavior across multiple dimensions including the amount of data uploaded/downloaded, volume and types of user action, access count, and frequency across time and cloud services.
- **Compromised accounts:** Analyze access attempts to identify impossible cross-region access, brute-force attacks, and suspicious locations indicative of a compromised account.
- **Privileged user threats:** Identify inappropriate user permissions, dormant accounts, and unwarranted escalation of user privileges and provisioning.
- **Malware:** Block known malware signatures, sandbox suspicious files, and identify behavior indicative of malware data exfiltration or ransomware activity.

“In an environment with millions of unique events each day, McAfee does a nice job of cutting through the noise and directing us to the areas of greatest security concern.”

—Ralph Loura, Chief Information Officer, HP

Supervised Machine Learning

McAfee incorporates security analyst input into machine learning models to improve accuracy. As analysts mark false positives and adjust detection sensitivity, McAfee tunes detection models.



Network Effects

With the largest installed base of any cloud security solution, McAfee leverages network effects other vendors cannot replicate. With more users, behavior models are able to more accurately detect threats.



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Unified Policy Engine

McAfee leverages a central policy engine to apply consistent policies to all cloud services. There are three ways to define policies that can be enforced on new and pre-existing content, user activity, and malware threats.



Policy templates

Operationalize AWS policy enforcement with pre-built templates based on industry, security use case, and benchmark.



Policy import

Import policies from existing security solutions or policies from other McAfee customers or partners.



Policy creation wizard

Create a custom policy with Boolean logic to conform to any corporate or regulatory requirement.

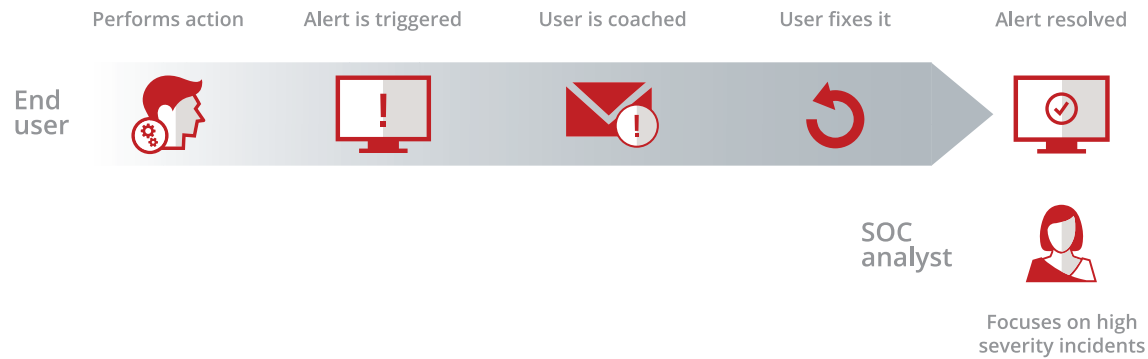
- Combine DLP, collaboration, and access rules to enforce granular policies
- Flexible policy framework leverages triggers and response actions
- Build policies using Boolean logic and nested rules and rule groups
- Enforce multi-tier remediation based on the severity of the incident
- Selectively target or exclude specific users and define exception rules

“With McAfee we were able to implement cloud security policies without impacting business user productivity.”

—Brian Lillie, Chief Information Officer, Equinix

The screenshot displays the Skyhigh Policy Management interface. The top navigation bar includes 'Skyhigh Policy Management' and a user profile 'Ajmal Kottgaddal'. Below the navigation, there are tabs for 'Access Control', 'DLP Policies', 'Encryption Policy', 'Configuration Audit', 'On-Demand Scan', 'User Lists', and 'Policy Settings'. The main content area is titled 'Policy Templates Overview' and features a search bar and a 'Filters' section. The 'Policy Type' section lists categories with their respective counts: Security Configur... (83), Compliance/DLP (58), and Secure Collaboration (11). The 'Business Requirement' section lists: Compliance (41), Data Exfiltration (22), Unrestricted Access (21), Secure Configuration (14), Secure Authentica... (7), Secure Collaborati... (6), Inactive Entity (5), and Security Monitoring (5). The 'Recommendation/Benchmark' section lists: Skyhigh Recomme... (60), Best Practice (40), Skyhigh Recomme... (28), and CIS Benchmark - L... (21). The 'Templates by Category' section shows a grid of policy types with their usage counts: Security Configuration (51 in use, 83 total), Compliance/DLP (71 in use, 58 total), Secure Collaboration (11 total), Compliance (50 in use, 41 total), Data Exfiltration (28 in use, 22 total), Unrestricted Access (21 total), Secure Configuration (20 in use, 14 total), Secure Authentication (7 total), Secure Collaboration - Level 1 (6 total), Inactive Entity (5 total), Security Monitoring (5 total), and Secure Collaboration - Level 2 (4 total). Document Classification Solutions (2 in use, 4 total) are also listed under Recommendation/Benchmark.

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Incident Response Management

McAfee's incident response management console offers a unified interface to triage and resolve incidents. With McAfee, organizations can:

- Identify a single policy and all users violating it
- Analyze all policy violations by a single user
- Review the exact content that triggered a violation
- Take manual action, such as quarantining a file
- Rollback an automatic remediation action to restore a file and its permissions

McAfee streamlines incident response through autonomous remediation that:

- Provides end-user coaching and in-app notifications of attempted policy violations
- Enables end users to self-correct the policy violation and resolve the incident alert
- Dramatically reduces manual incident review by security analysts by 97%

Integrations

McAfee integrates with your existing security solutions including the leading vendors in:

- Data loss prevention (DLP)
- Security information and event management (SIEM)
- Secure web gateway (SWG)
- Next-generation firewall (NGFW)
- Access management (AM)
- Information rights management (IRM)
- Enterprise mobility management (EMM/MDM)

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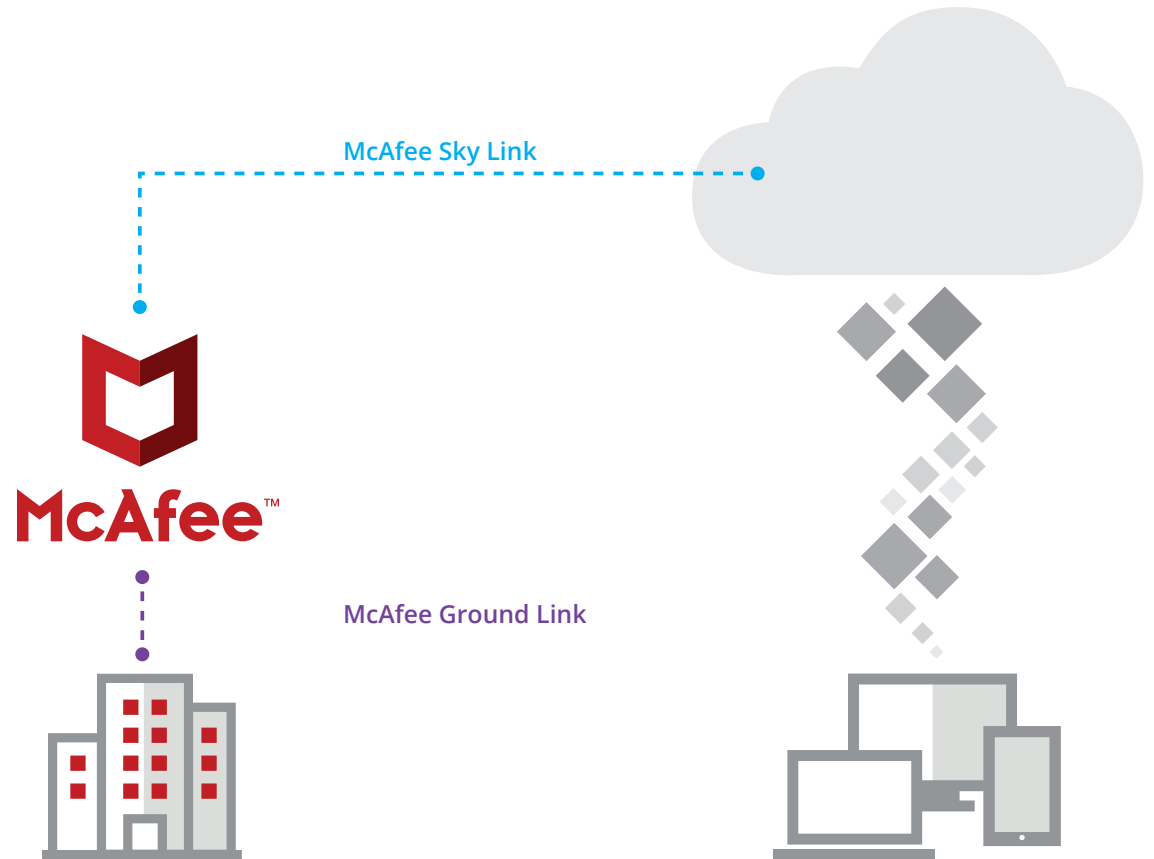
McAfee Sky Link

Connects to AWS APIs to gain visibility into AWS infrastructure and services, data and user activity, and enforces a unified set of policies across AWS services, data, and users.

McAfee Ground Link

Brokers the connection between McAfee and on-premises LDAP directory services, DLP solutions, proxies, firewalls, and key management services.

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