

Oracle CASB for Oracle Cloud Infrastructure

As customer adopt cloud-based infrastructure as part of their digital journey, protecting this infrastructure becomes a critical security imperative to ensure that applications that are built on top of them and the data stored are inherently secure. Oracle's Cloud Access Security Broker (CASB) Cloud Service is a heterogeneous cloud security solution that helps protect cloud-based infrastructure, platforms and applications across vendors. Specifically, for customers adopting Oracle Cloud Infrastructure (OCI), Oracle CASB provides visibility, threat protection, data security and compliance for their OCI deployments.

Key Business Benefits.

- Continuous security compliance of critical resources in OCI
- Automated anomalous behavior detection with smart policies
- Governance of privileged activities
- Vulnerability detection by monitoring configuration drifts
- Proactive remediation and unified incident management

VISIBILITY, MONITORING & SECURITY INDICATORS

Oracle CASB helps you gain visibility into use of managed and unmanaged OCI instances such as Networking, Compute, Storage and Identity. Various actions performed by users across these

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Oracle CASB for OCI – Key Features

- Provide visibility across OCI services such as Compute, Network, Storage & IAM
- Protect data stored in OCI
- Ensure consistent security posture across services with Smart Policies
- Detect anomalies using behavior analytics and machine learning

instances are captured providing a strong audit trail of all activities across these resources. Some of the activities that can be monitored are:

- Creation, termination and deletion of compute, network and storage instances
- Creation, addition, modification and deletion of users and groups
- Modification of permissions for any instances
- Most active users and groups

Visibility can be filtered by various attributes such as user, resource or action. Going beyond visibility, Oracle CASB also provides details on the actual activity and possible remediation steps. This enables fast resolution of potential issues and provides the necessary details for forensics.



Figure 1: Access map using Oracle CASB

SECURITY CONFIGURATION

Cloud Infrastructure follow the shared responsibility model. While the model provides delineation of responsibilities “of the cloud” and “in the cloud”, optimal security can be achieved with the right configuration of the infrastructure components. Oracle CASB helps detect misconfiguration of various OCI components such as:

- Compute Images and Compute Instances
- Networking and Load Balancers
- Identity Users and Groups
- Database Systems and Object Storage

Further, with Smart Policies, customers benefit from the abundance of security expertise built by experts. These policies are automatically turned off for each customer to ensure predictable and consistent security across all OCI resources.

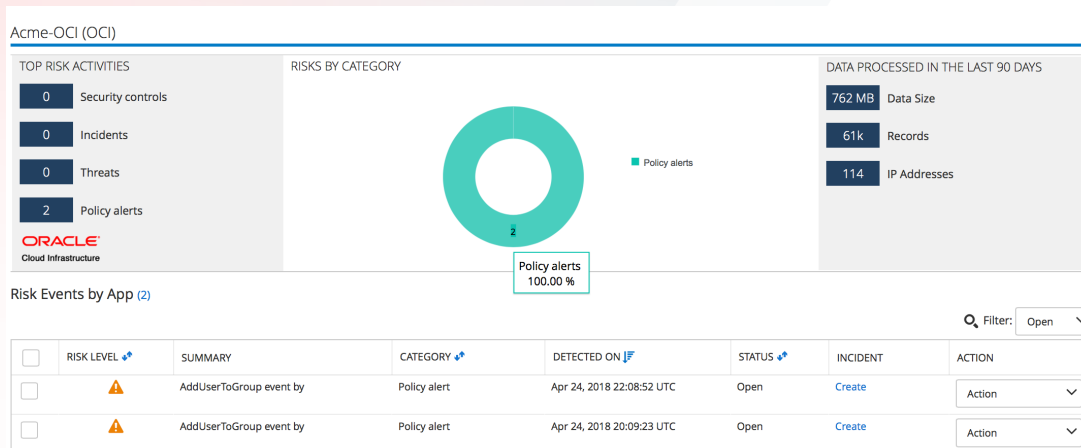


Figure 2: Risk Events for Oracle OCI

BEHAVIOR ANALYTICS & THREAT PROTECTION

Oracle CASB leverages advanced analytics and machine learning techniques to detect potential security issues. This includes User and Entity Behavior Analytics (UEBA) to determine anomalies and to determine risks to OCI. Oracle CASB automatically creates a baseline of each user and resources' behavior and any deviations from the baseline result in security alerts that can result in action. Some examples are:

- Detect anomalous behavior of users that may result in insider threat
- Compromised accounts that may result in malicious resource usage

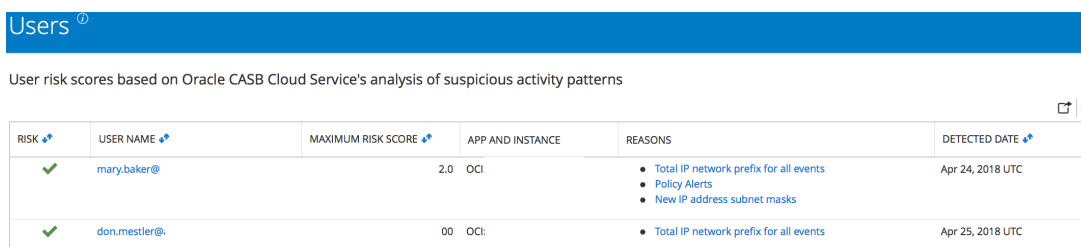


Figure 3. User risk for OCI computed using UEBA

SMART POLICIES

Oracle has leveraged years of expertise in security and combined that with intimate knowledge of Oracle Cloud Infrastructure (OCI) and has published various security policies that are made available to each customer by default. These policies are designed to help customers improve their security posture and provide a consistent security framework. These policies are available in two tiers:

- Tier 1 – Smart Policies that are turned on by default for all customers. For example, policies that ensure that there are no publicly accessible storage buckets
- Tier 2 – Smart Policies that are not turned on by default but are pre-configured. Customers can turn them on based on their individual needs

INCIDENT MANAGEMENT

Oracle CASB provides a robust built in incident management functionality. This ensures that any alert that is generated by CASB is tracked and appropriate action taken. Additional integrations with incident management solutions such as ServiceNow are also provided.

+ New Incident										
PRIORITY	ID	APP	INSTANCE	CATEGORY	STATUS	ASSIGNED TO	DETECTED ON	DETAILS	REMEDIATION TYPE	ACTION
	238119000130	HCMCloud		Monitoring stopped	Open		Apr 21, 2018 UTC	Unable to monitor application	Auto	
	96922002972	AWS		Anomalous activity	Open		Apr 11, 2018 UTC	User behavior risk. User activity deviates from normal behavior.	Auto	
	189097000575	O365		Anomalous activity	Open		Apr 11, 2018 UTC	Suspicious IP address. Reported by CASB administrator blacklist: 167.114.240.136, 104.156.232.215.	Auto	
	189097000574	O365		Anomalous activity	Open		Apr 11, 2018 UTC	User behavior risk. User activity deviates from normal behavior.	Auto	

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