

Prisma Cloud IBM Cloud Onboarding

Limited GA
PCS 23.8.2



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Overview

Prisma™ Cloud enables you to protect your resources deployed on the IBM Cloud infrastructure from a single console. When you add your IBM Cloud accounts on Prisma Cloud, you get complete visibility and control over potential risks within your IBM Cloud infrastructure across all the Multi-Zone Regions (MZR).

With Prisma Cloud, you can manage vulnerabilities, ensure compliance, and provide runtime defense for your resources in the IBM Cloud.

IBM Cloud Account Onboarding

To monitor your IBM resources, you first need to add your IBM Cloud accounts to Prisma Cloud. You can also access the [Prisma Cloud Terraform Registry](#) to onboard multiple IBM Cloud accounts. You must have administrator access to an IBM account to enable **read** permissions for Prisma Cloud.

Prisma Cloud uses the Terraform file to create a service ID and an API key with the required permissions for all the supported IBM services.

After you add your IBM Cloud account to Prisma Cloud, the API integration between IBM and Prisma Cloud is established, and you can monitor resource configuration issues using RQL and alerts.

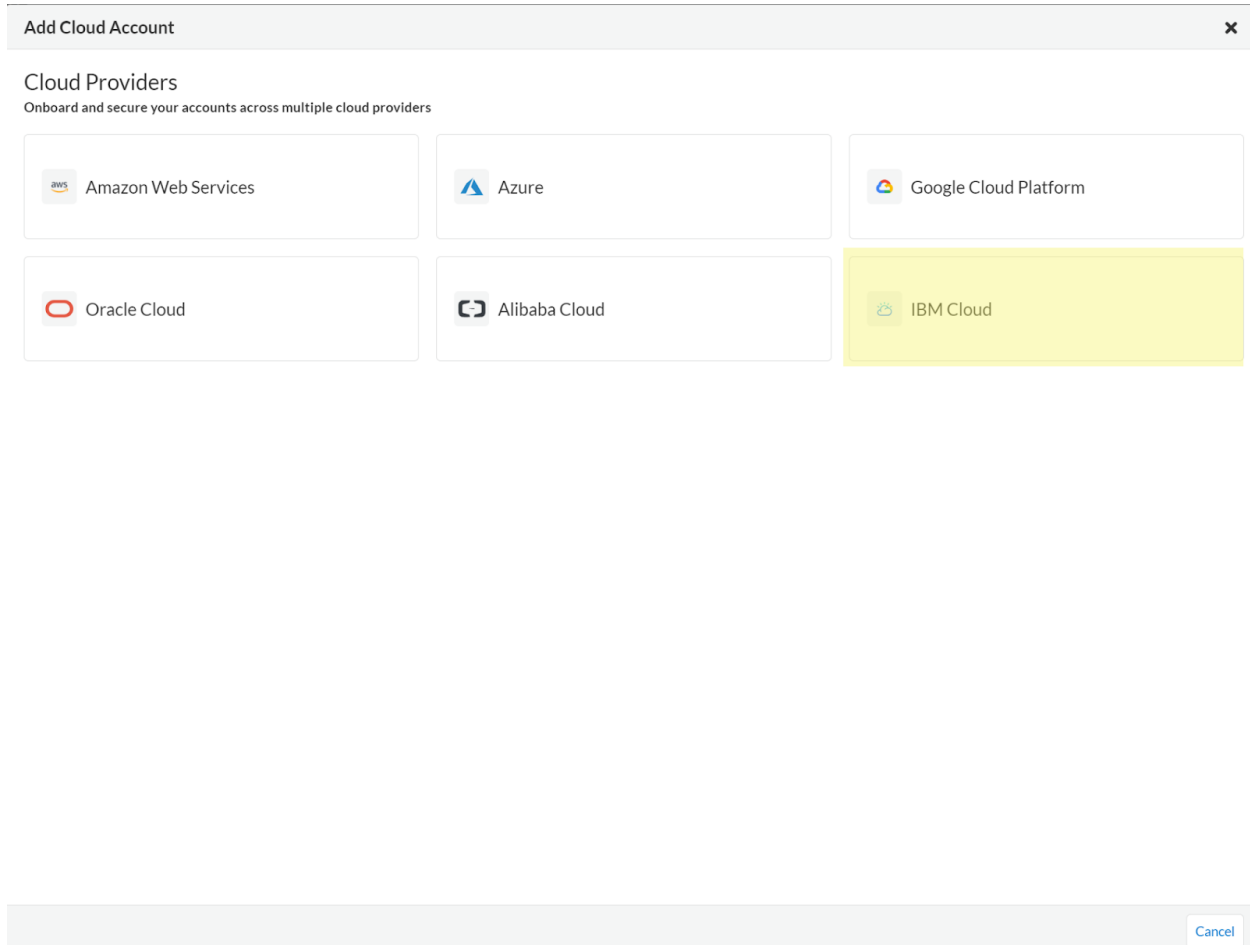
Prisma Cloud supports the ingestion of Configuration (Config) logs to identify IBM resource configuration issues.

Note: Ingestion of IBM flow logs, audit event logs, and ingestions for the IBM Classic Infrastructure are not currently supported.

To begin monitoring your resources on IBM, you must complete the following steps:

Step 1: Add IBM Account

1. [Access Prisma Cloud](#) and select **Settings > Cloud Accounts > Add Cloud Account**.
2. Select **IBM Cloud** as the cloud account you want to onboard and **Get Started**.



Add Cloud Account ✕

Cloud Providers
Onboard and secure your accounts across multiple cloud providers

- Amazon Web Services
- Azure
- Google Cloud Platform
- Oracle Cloud
- Alibaba Cloud
- IBM Cloud**

Cancel

3. Select **Account** under Scope.

Note: Prisma Cloud does not support the onboarding of an IBM Enterprise account.

4. Under **Security Capabilities and Permissions**, the **Misconfigurations** capability is enabled by default. It grants the permissions required to scan cloud resources and ingest metadata.
5. Click **Next**.

Add Cloud Account ✕

- Get Started
- Configure Account**
- Review Status

Get Started

Scope

- Account
Secure your IBM Cloud Account.

Security Capabilities and Permissions

Foundational (Recommended)

- Misconfigurations (CSPM) ⓘ
Detect misconfigurations, and check compliance. Default

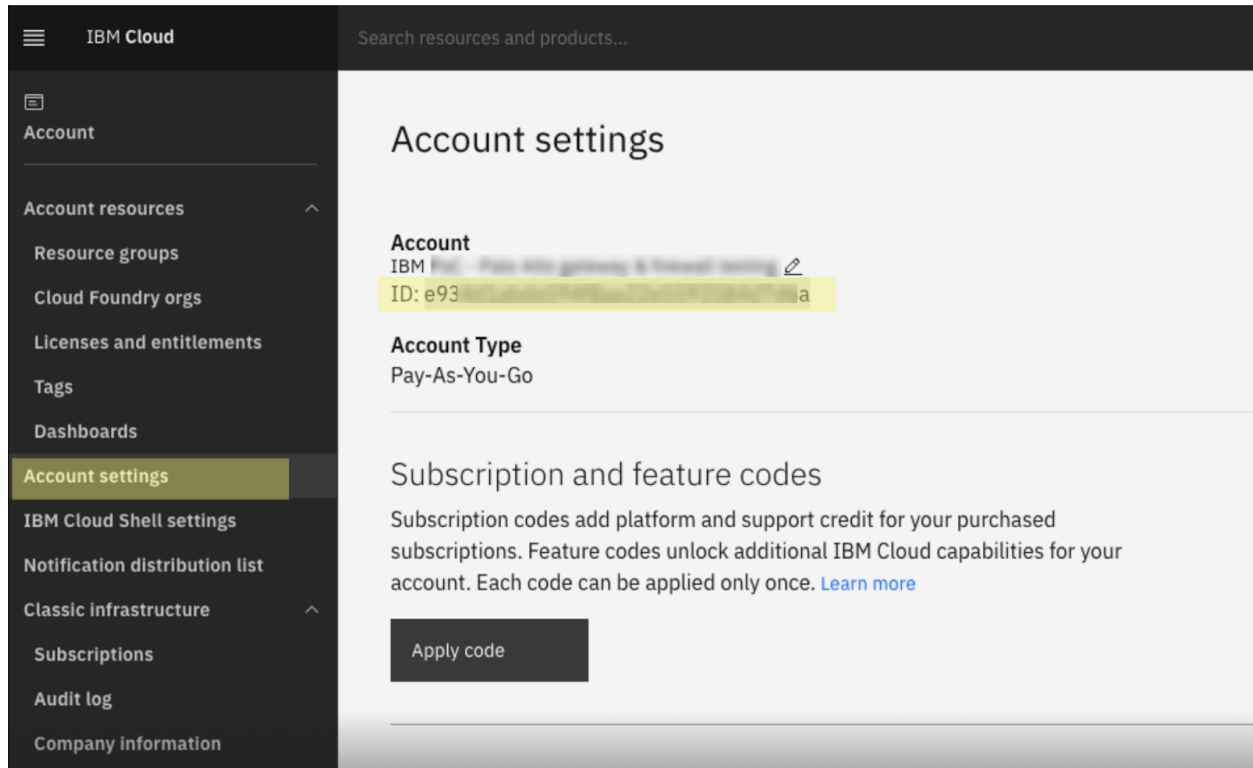
For product documentation please click [here](#)

Previous Next

Step 2: Configure Account

1. Enter your IBM Cloud **Account Id** from the IBM Cloud console.

You can find your `accountid` under **Manage > Account Settings**.



IBM Cloud

Search resources and products...

Account settings

Account
IBM [View account details & account settings](#)
ID: e93...a

Account Type
Pay-As-You-Go

Subscription and feature codes

Subscription codes add platform and support credit for your purchased subscriptions. Feature codes unlock additional IBM Cloud capabilities for your account. Each code can be applied only once. [Learn more](#)

Apply code

2. Enter a **Cloud Account Name**.

A cloud account name uniquely identifies your IBM account on Prisma Cloud.

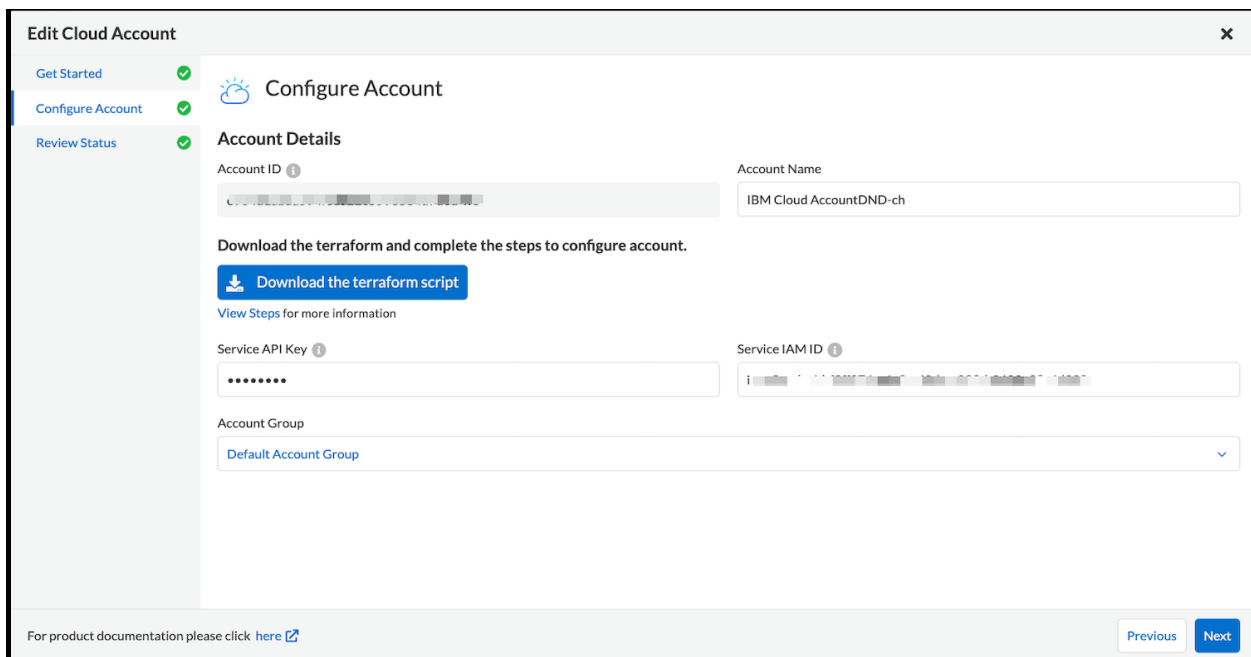
3. Download the Terraform script.

4. Click **View Steps** to follow the steps to generate the Service API Key and Service IAM ID from the IBM Cloud shell.

Note: Once you run the Terraform script for the first time and if you need to re-run it for the same account, then you must manually perform the following steps:

1. Navigate to the **Manage > Access (IAM) > Roles** page in your IBM Cloud.
2. Search for the following custom roles and delete them:
 - PrismaCustomRoleIAM
 - PrismaCustomRoleKMS
 - PrismaCustomRoleSM

5. Paste the **Service API Key** and **Service IAM ID** in Prisma Cloud.



Edit Cloud Account

Get Started ✓
Configure Account ✓
Review Status ✓

Configure Account

Account Details

Account ID: [Redacted]
Account Name: IBM Cloud AccountDND-ch

Download the terraform and complete the steps to configure account.
[Download the terraform script](#)
[View Steps for more information](#)

Service API Key: [Redacted]
Service IAM ID: [Redacted]

Account Group: Default Account Group

For product documentation please click [here](#)

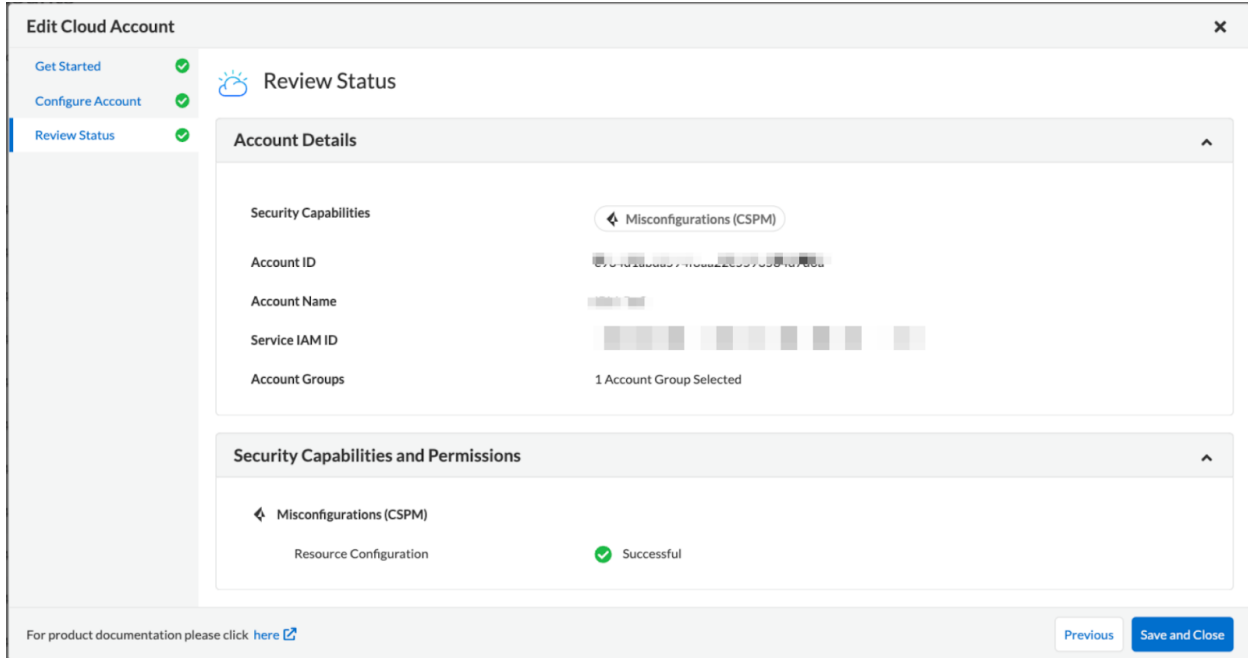
Previous Next

6. Select one or more account groups or select **Default Account Group**.

You must assign each cloud account to an account group and [create an Alert Rule for run-time](#) checks to associate with that account group to generate alerts when a policy violation occurs.

7. Click **Next**.

Step 3: Review Status



Edit Cloud Account

Get Started ✓
Configure Account ✓
Review Status ✓

Review Status

Account Details

Security Capabilities: Misconfigurations (CSPM)

Account ID: [Redacted]

Account Name: [Redacted]

Service IAM ID: [Redacted]

Account Groups: 1 Account Group Selected

Security Capabilities and Permissions

Misconfigurations (CSPM)

Resource Configuration: ✓ Successful

For product documentation please click [here](#)

Previous Save and Close

1. Verify the **Account Details** of the IBM account and status check for the Security Capabilities and Permissions.
2. Click **Save and Close** to complete onboarding.
3. After successfully onboarding the account, navigate to **Settings > Cloud Accounts** and set the **Cloud Type** filter to **IBM Cloud** to view your newly onboarded account.

Settings Cloud Accounts

Cloud Accounts Cloud Type: IBM Cloud Ingestion Enabled: True Account Type: Account

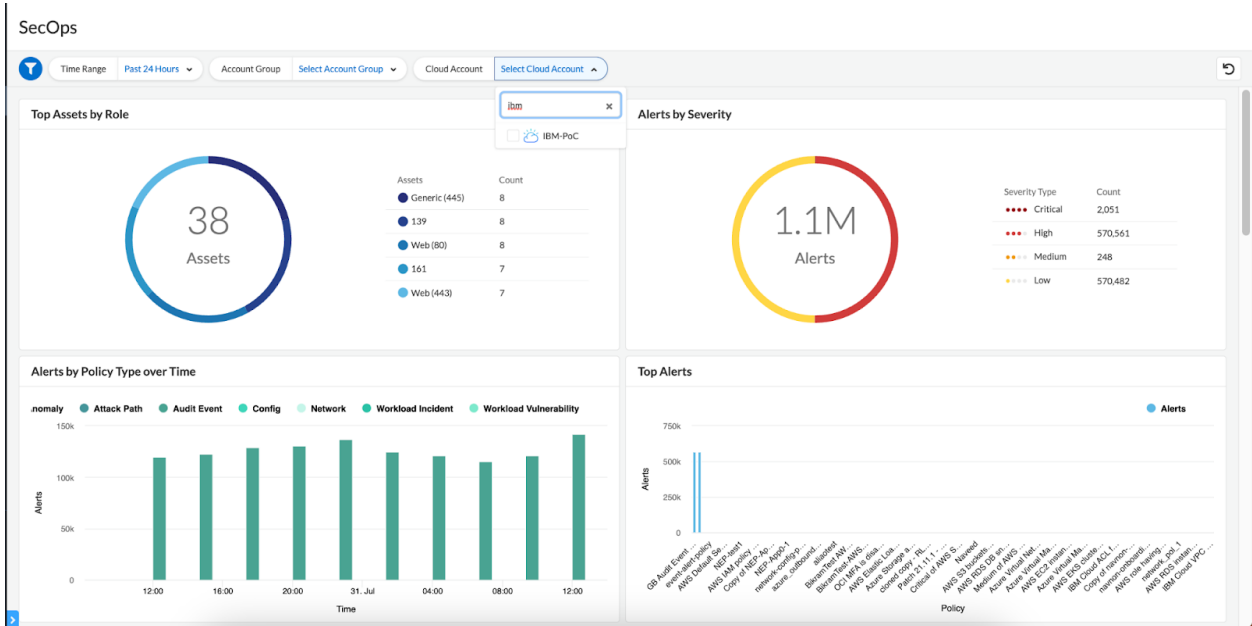
1 of 6 Selected Select All Deselect All

IBM Cloud

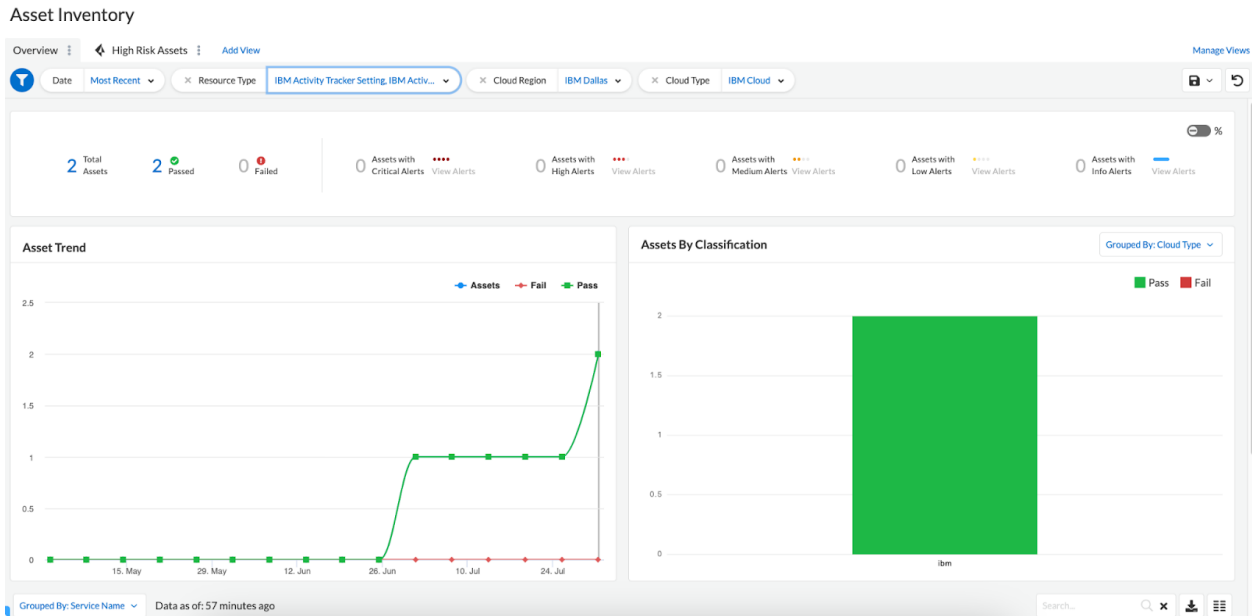
Account ID	Cloud	Type	Account Groups	Cloud Account Owner
3593584d7d6a-vo	IBM Cloud	AccountDNDksne-va	1 account group(s)	
3593584d7d6a-rb	IBM Cloud	AccountDNDksneax-bh	1 account group(s)	
3593584d7d6a-ng	IBM Cloud	AccountDNDksneax-wa	1 account group(s)	
3593584d7d6a-ld	IBM Cloud	Accountbfig-kj	1 account group(s)	
3593584d7d6a-ag	IBM Cloud	Accountbfig-rz	1 account group(s)	
3593584d7d6a-by	IBM Cloud	Accountbfigmd-wa	1 account group(s)	
3593584d7d6a-ml	IBM Cloud	Accountbfigmd-yh	1 account group(s)	
3593584d7d6a	IBM Cloud	PoC	1 account group(s)	

Next Steps

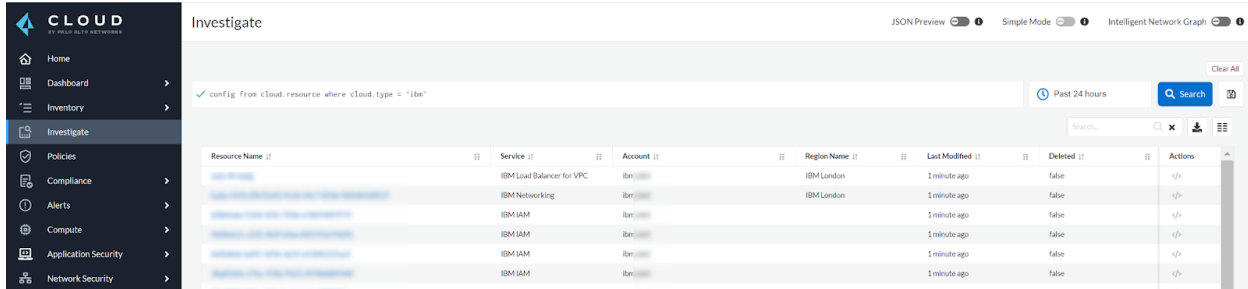
1. It can take up to an hour for the ingestion to complete after which you can view the resources in Prisma Cloud, review, and act on the alerts generated.
2. On the Prisma Cloud Dashboard, you can filter by IBM Cloud Accounts. Prisma Cloud supports only configuration ingestion for IBM Cloud accounts and displays only the relevant configuration ingestion data.



- Start using the Prisma Cloud [Asset Inventory](#) for visibility. Set the Cloud Type filter as **IBM Cloud** to view the data for the supported services. You can also filter the data based on the **IBM Cloud Region** and **Resource Type** (Service name).

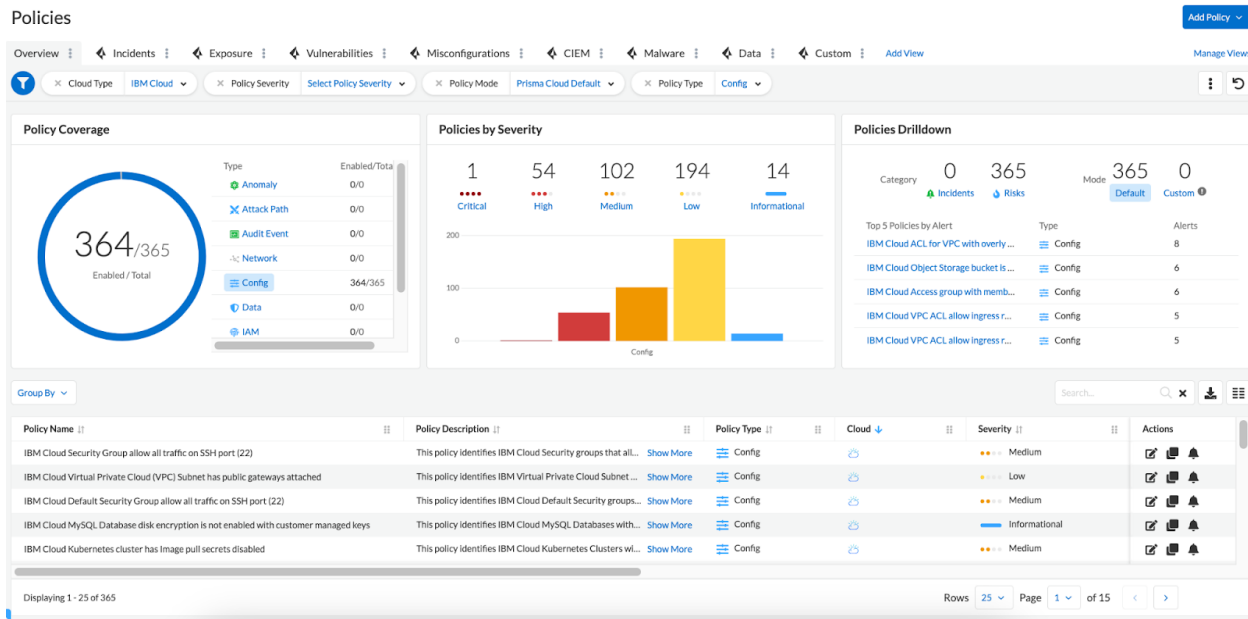


- To verify if the configuration logs for your IBM Cloud-related resources have been analyzed, you can run a query on the **Investigate** page.



The screenshot shows the 'Investigate' page in Palo Alto Networks Prisma Cloud. A search query is entered: 'config from cloud.resource where cloud.type = 'ibm''. The results table shows several entries for IBM Cloud resources, including Load Balancers, Networking, and IAM services, all located in the IBM London region. The 'Last Modified' column shows '1 minute ago' for all entries, and the 'Deleted' column is 'false'.

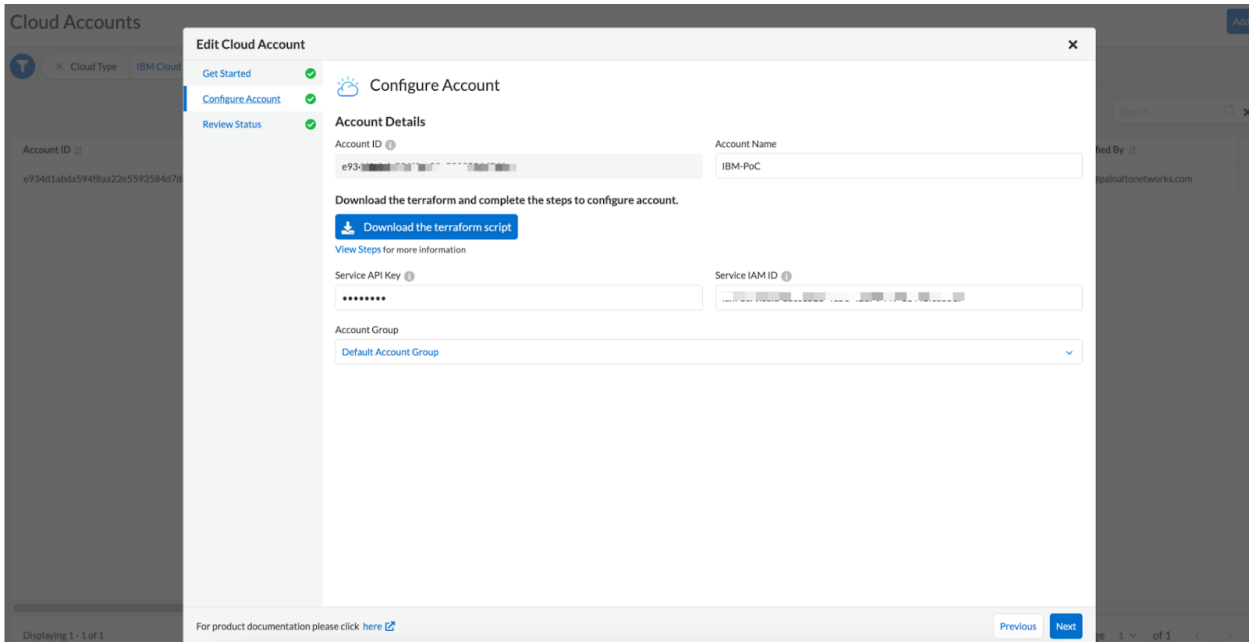
- Review the Prisma Cloud default **Policies** for IBM Cloud. Set the **Cloud Type** filter as **IBM Cloud** and view all the Configuration policies that are available to detect any misconfiguration in your infrastructure.



The screenshot shows the 'Policies' page in Palo Alto Networks Prisma Cloud. The 'Policy Coverage' section shows a donut chart with 364/365 policies enabled. The 'Policies by Severity' bar chart shows 1 Critical, 54 High, 102 Medium, 194 Low, and 14 Informational policies. The 'Policies Drilldown' section shows 0 Incidents and 365 Risks. The main table lists various configuration policies for IBM Cloud, such as 'IBM Cloud Security Group allow all traffic on SSH port (22)', 'IBM Cloud Virtual Private Cloud (VPC) Subnet has public gateways attached', and 'IBM Cloud Default Security Group allow all traffic on SSH port (22)'. The table columns include Policy Name, Policy Description, Policy Type, Cloud, Severity, and Actions.

- Configure [Alert Rule](#) to include IBM policies.
- To update the permissions of an already onboarded IBM Cloud account to ingest new APIs or to ingest additional attributes in the IBM Cloud API:
 - Navigate to **Settings > Cloud Accounts**.
 - Click the Edit icon for the account you want to update.

- c. In the edit flow, download the Terraform script and perform steps 4 to 7 as listed in [Configure Account](#).



Known Issues

When attempting to rerun the onboarding terraform script for the same account multiple times, an error occurs—This role name has already been used, please update the existing one or change the role name.

To address the error, follow these steps in your IBM Console:

1. Go to IBM Cloud and navigate to **Manage > Access (IAM) > Roles** page.
2. Search for the custom roles listed below and delete them:
 - Prismacustomroleiam
 - Prismacustomrolekms
 - Prismacustomrolesm

APIs Ingested by Prisma Cloud

To know the list of all the APIs that Prisma Cloud supports for retrieving data about the resources in your IBM Cloud environment, see the following table.

IBM Service	API	Permissions
IBM Networking	ibm-vpc	is.vpc.vpc.list is.vpc.vpc.read
IBM Networking	ibm-vpc-network-acl	is.network-acl.network-acl.list is.network-acl.network-acl.read
IBM Networking	ibm-vpc-network-security-group	is.security-group.security-group.list is.security-group.security-group.read
IBM Networking	ibm-vpc-network-subnet	is.subnet.subnet.list is.subnet.subnet.read
IBM Networking	ibm-vpc-network-public-gateway	is.public-gateway.public-gateway.list is.public-gateway.public-gateway.read
IBM Networking	ibm-vpc-network-vpn-gateway	is.vpn.vpn.list
IBM Networking	ibm-vpc-network-vpn-ike-policy	is.vpn.vpn.list
IBM Networking	ibm-vpc-network-vpn-ipsec-policy	is.vpn.vpn.list
IBM Virtual Server for VPC	ibm-vpc-virtual-server-instance	is.instance.instance.list is.instance.instance.read
IBM Virtual Server for VPC	ibm-vpc-virtual-server-instance-group	is.instance-group.instance-group.list is.instance-group.instance-group.read
IBM Virtual Server for VPC	ibm-vpc-virtual-server-image	is.image.image.list is.image.image.read
IBM IAM	ibm-iam-user	user-management.user.retrieve user-management.user-setting.retrieve
IBM IAM	ibm-iam-policy	iam.policy.read
IBM IAM	ibm-iam-identity-account-setting	iam-identity.account.get
IBM IAM	ibm-iam-role	iam.policy.read
IBM IAM	ibm-iam-trusted-profile	iam-identity.profile.get
IBM IAM	ibm-iam-access-group	iam-groups.groups.list

IBM IAM	ibm-iam-access-group-member	iam-groups.groups.list iam-groups.members.list
IBM IAM	ibm-iam-identity-account-activity-report	iam-identity.report.create iam-identity.report.get
IBM IAM	ibm-iam-service-id	iam-identity.serviceid.list
IBM Load Balancer for VPC	ibm-vpc-loadbalancer	is.load-balancer.load-balancer.view
IBM Activity Tracker	ibm-activity-tracker-route	atracker.route.list
IBM Activity Tracker	ibm-activity-tracker-setting	atracker.setting.get
IBM Activity Tracker	ibm-activity-tracker-target	atracker.target.list
IBM Activity Tracker	ibm-activity-tracker-instance	resource-controller.instance.retrieve global-search-tagging.resource.read
IBM Block Storage for VPC	ibm-vpc-block-storage-volume	is.volume.volume.read
IBM Block Storage for VPC	ibm-vpc-block-storage-snapshot	is.snapshot.snapshot.list is.snapshot.snapshot.read
IBM Kubernetes	ibm-kubernetes-cluster	containers-kubernetes.cluster.read
IBM Kubernetes	ibm-kubernetes-worker	containers-kubernetes.cluster.read
IBM Cloud Databases for PostgreSQL	ibm-postgresql-deployment-info	GET /v5/:platform/deployments/:deployment_id GET /v5/ibm/deployments/:deployment_id/allowlists/ ip_addresses
IBM Cloud Databases for MySQL	ibm-mysql-deployment-info	GET /v5/:platform/deployments/:deployment_id GET /v5/ibm/deployments/:deployment_id/allowlists/ ip_addresses
IBM Cloud Object Storage	ibm-object-storage-bucket	cloud-object-storage.account.get_account_buckets cloud-object-storage.bucket.get_cors cloud-object-storage.bucket.get_lifecycle
IBM Flow Log Collector for VPC	ibm-vpc-flow-log-collector	is.flow-log-collector.flow-log-collector.read
IBM Key Protect	ibm-key-protect-key	kms.secrets.list kms.policies.read
IBM Key Protect	ibm-key-protect-instance-policy	kms.instancepolicies.read
IBM Key Protect	ibm-key-protect-registration	kms.registrations.list

IBM Secrets Manager	ibm-secret-manager-secret	secrets-manager.secrets.list secrets-manager.secret-policies.get
IBM Secrets Manager	ibm-secret-manager-secret-group	secrets-manager.secret-groups.list
IBM Cloud Container Registry	ibm-container-registry-image	container-registry.image.list
IBM Event Streams	ibm-event-streams-instance	resource-controller.instance.retrieve global-search-tagging.resource.read
IBM Log Analysis	ibm-log-analysis-instance	resource-controller.instance.retrieve global-search-tagging.resource.read

IBM Cloud Policies

To know the list of all the available Prisma Cloud out-of-the-box (OOTB) policies for IBM Cloud by default, see [Git Repo](#).