

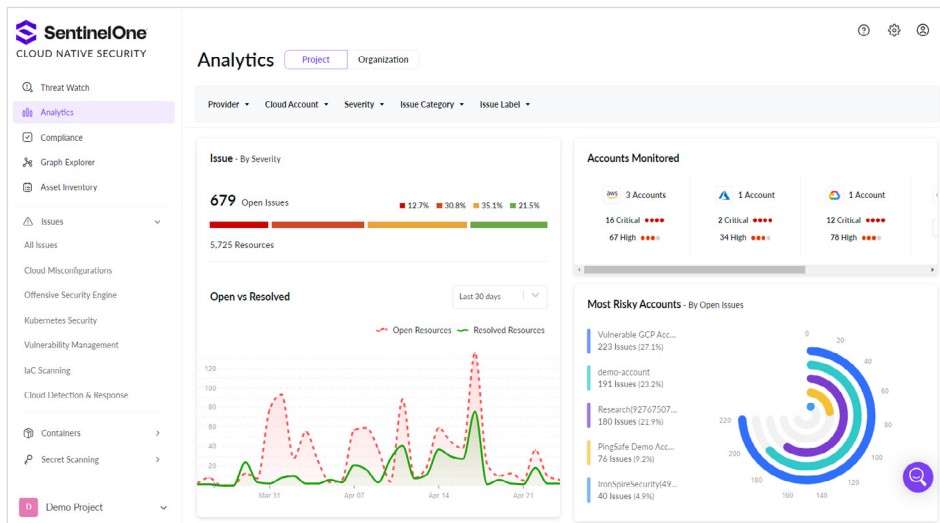
Cloud Native Security

Agentless CNAPP. Get started in moments, realize value in minutes.

More Signal, Less Noise. Better Outcomes.

Prior generations of cloud security solutions are noisy and inefficient, with data silos and poorly integrated solutions leading to wasted cycles chasing down alerts, context, and false positives. Threat actors find novel ways of infiltrating cloud infrastructure and deal serious damage to an organization’s cloud footprint and business reputation. Far better to clearly highlight the most critical problems to address first, so that security teams can focus their attention and create better cloud security outcomes.

Cloud Native Security (CNS) is our agentless CNAPP that delivers multi-cloud insights spanning asset discovery, misconfigurations, vulnerability management, and more. It goes beyond simple attack path analysis, to automate red-teaming of identified issues and present evidence of exploitability. It cuts through noise and enhances collaboration, so that you can prioritize and solve faster.



Key Benefits



Instant Visibility



Connect in Minutes



Stop Leaked Credentials



Multi-Cloud Support



Verified Exploit Paths™
for Better Prioritization



Convenient Compliance
Dashboards

PeerSpot



I've used [other CNAPPs]. CNS significantly reduced false positives and detection time. I'm always happy to recommend CNS.

CISO
SOFTWARE COMPANY

Cloud Native Security delivers multi-cloud support for:



Verified Exploit Paths™

A primary challenge facing securing teams is sifting through the thousands of critical alerts created across multiple cloud security tools to find which ones are the ones which are most vital to improving risk posture. CNS goes beyond theoretical attack path analysis, to safely and automatically probe issues identified by our agentless CNAPP, and present evidence of exploitability.

Evidence of exploitability is created, evidence which helps to differentiate the truly critical alerts from the theoretical possible attack scenarios.

By using these Verified Exploit Paths, security teams can better prioritize their security backlog and more effectively collaborate cross-functionally, to solve the most important issues first and optimize the business' cloud risk posture.



The offensive security feature is something no one else offers.

Cloud Security Engineer
FINANCIAL SERVICES, 10K+ EMPLOYEES

The screenshot shows the SentinelOne Cloud Native Security interface. The main content area displays a security issue titled "Metabase instances are vulnerable to CVE-2021-41277". The description states that this plugin scans for file inclusion vulnerabilities in Metabase instances. The impact section explains that an attacker can exploit the AWS Instance Metadata Service (IMDS) to gain temporary credentials. The recommended action is to upgrade the Metabase version or block the endpoint. Below the text, there is a table of resources with columns for Resource Label, Is New Resource, Filter, Active resources, Resolved Resources, Muted Resources, Port, and Subdomain. One resource is listed: "demo-account" with port 8081 and subdomain "ec2-18-118-38-231.us-east-2.compute.amazonaws.com".

Secrets Scanning

Another exciting capability within CNS is its Secrets Scanning, which can identify well over 750 distinct types of secrets and credentials hardcoded across code repositories. Compromised credentials such as these remain one of the primary causes of cloud security failures, providing a point of entry for threat actors who have automated means of notification when such credentials are posted in clear text to code repositories. Said another way, attackers use the credentials and secrets to simply login, not hack in, to your cloud accounts. CNS periodically scans public and private repositories for the organization, as well as public repositories of associated developers, to prevent leakage of secrets and credentials.

71%

YoY increase in attacks using credentials

IBM X-Force Threat Intelligence Index 2024

Leaked Google Cloud Credentials detected for leah-thesis@thesis-393212.iam.gserviceac... at developer's public repository hecker123-h/congenial-spork

Description
Google Cloud Platform, offered by Google, is a suite of cloud computing services that runs on the same infrastructure that Google uses internally for its end-user products, such as Google Search, Gmail, Google Drive, and YouTube.

Recommended Action
Log into google cloud platform, go to the **Iam & Admin** section > **Service Accounts** and choose the service account for the reported email and rotate the keys.

Secrets Detected Revalidate

Repository Name	File Name	Code	Leak Source	Committed By User	Discovered
congenial-spork	google-service-account.json	View Code	View Source	vulnerable-dev1	145 days ago

Rows per page: 10 | 1-1 of 1

CSPM

CSPM (Cloud Security Posture Management) pinpoints misconfigured cloud resources and ensures compliance to industry standards. Agentless onboarding creates an asset inventory within minutes of connecting to a cloud account. With over 2,000 checks built-in, CNS ensures that any newly instantiated and misconfigured cloud resource – be it a cloud compute instance, container, etc – is identified in near-real time.

Users can create custom policies via simple rego scripts, to cover compliance requirements unique to your organization.

And of course, easy-to-understand dashboards provide a real-time compliance score to multiple standards such as NIST, CIS, MITRE and more.

CloudFront Instance Takeover Possible due to Missing Origin S3 Bucket

Description
This policy identifies CloudFront instances set to utilize S3 bucket, however the bucket does not exist. This configuration can lead to a domain acquisition where a malicious person can build an S3 bucket with the same name and upload material to the brand image in a different AWS account. An attacker will deface your subdomains if not addressed by this vulnerability. We strongly recommend ensuring that all such CloudFront instances are removed.

Note that the policy is evaluated within the scope of accounts SentinelOne CNS. Few alerts may not be actionable if you have not connected AWS accounts containing the S3 buckets for attached to the CloudFront instance.

Impact
This misconfiguration can lead to the domain acquisition in which a malicious person can upload content that damage the corporate image to an instance with the same DNS name on another AWS account. A vulnerability is used by an attacker to deface your subdomains if not patched.

Recommended Action

KSPM

Kubernetes is a widely-adopted container orchestration platform, notorious for overly promiscuous configurations that create unique security challenges for containerized workloads. Enter Kubernetes Security Posture Management. KSPM goes well beyond CSPM which is ill-suited to the intricacies of Kubernetes network configurations and interpod communications.

The KSPM capabilities within Cloud Native Security deliver comprehensive visibility into workloads, nodes, pods, containers, and the Kubernetes API, enabling continuous monitoring and evaluation of your Kubernetes security stance. CNS offers insights into your compliance posture, encompassing CIS Benchmarks for EKS, GKE, and AKS, the managed K8s services from the 3 leading cloud service providers, as well as the CIS Kubernetes Framework. With SentinelOne, customers may craft cluster-security policies, pinpointing overly permissive roles, and detecting namespaces lacking proper labeling to enforce Kubernetes-specific pod security standards.

Vulnerability Scanning

Vulnerabilities in container images can lead to unauthorized access, data leakage, and more. To more easily manage risk, CNS now includes vulnerability scanning of container images within your ECS & EKS clusters. The solution creates a software bill of materials (SBOM), which is a detailed inventory of components, libraries, and dependencies within a container. Moreover, CNS delivers graph-based visualization of K8s clusters, business services, and images.

Together these capabilities:

- Streamline compliance and auditing
- Pinpoint services and images requiring immediate attention
- Clarify relationships among components
- Improve prioritization

The screenshot displays the SentinelOne Cloud Native Security (CNS) interface. On the left is a navigation sidebar with options like Graph Explorer, Asset Inventory, Issues, Cloud Misconfigurations, Offensive Security Engine, Kubernetes Security, Vulnerability Management (highlighted), IaC Scanning, and Cloud Detection & Response. The main content area shows an issue titled "Publicly accessible compute instances are affected with high vulnerabilities". It includes a description of the policy, an impact statement, and a recommended action. On the right, a metadata panel lists details such as Policy Code, Issue ID, Status (OPEN), Severity (HIGH), Assignees, Add Label, Mute Issue, and Jira integration.

Field	Value
Policy Code	VULNERABILITY_MANAGE...
Issue ID	01HAMF6GK5THBV7MGW...
Status	OPEN
Severity	HIGH
Assignees	Click to Assign
Add Label	+ add a label
Mute Issue	Issue not muted
Jira	Connect

For example, consider a publicly accessible cloud compute instance, such as an Amazon EC2, Azure VM, or Google Cloud Compute Engine. Now, there are potentially perfectly valid reasons for having a public internet-facing compute instance. However, if such instances are running with high severity vulnerabilities, with widely available exploit packages, then SecOps will want to prioritize response action, such as updating the host OS image, to resolve the vulnerability before it is exploited. Moreover, Graph Explorer (discussed in a section below) can streamline the investigation, visualizing the relationship between a misconfiguration and vulnerability.

Infrastructure as Code (IaC) Scanning

Golden IaC templates are a great means of preventing resource misconfigurations from entering the DevOps pipeline, by providing consistent, repeatable, and appropriate configurations codified according to best practices. The IaC scanning capabilities within CNS shifts security left, to scan templates and pinpoint misconfigurations before they reach production. CNS identifies pre-production issues in IaC templates and container configuration files like Terraform, CloudFormation, and Kubernetes (both Helm and manifests).

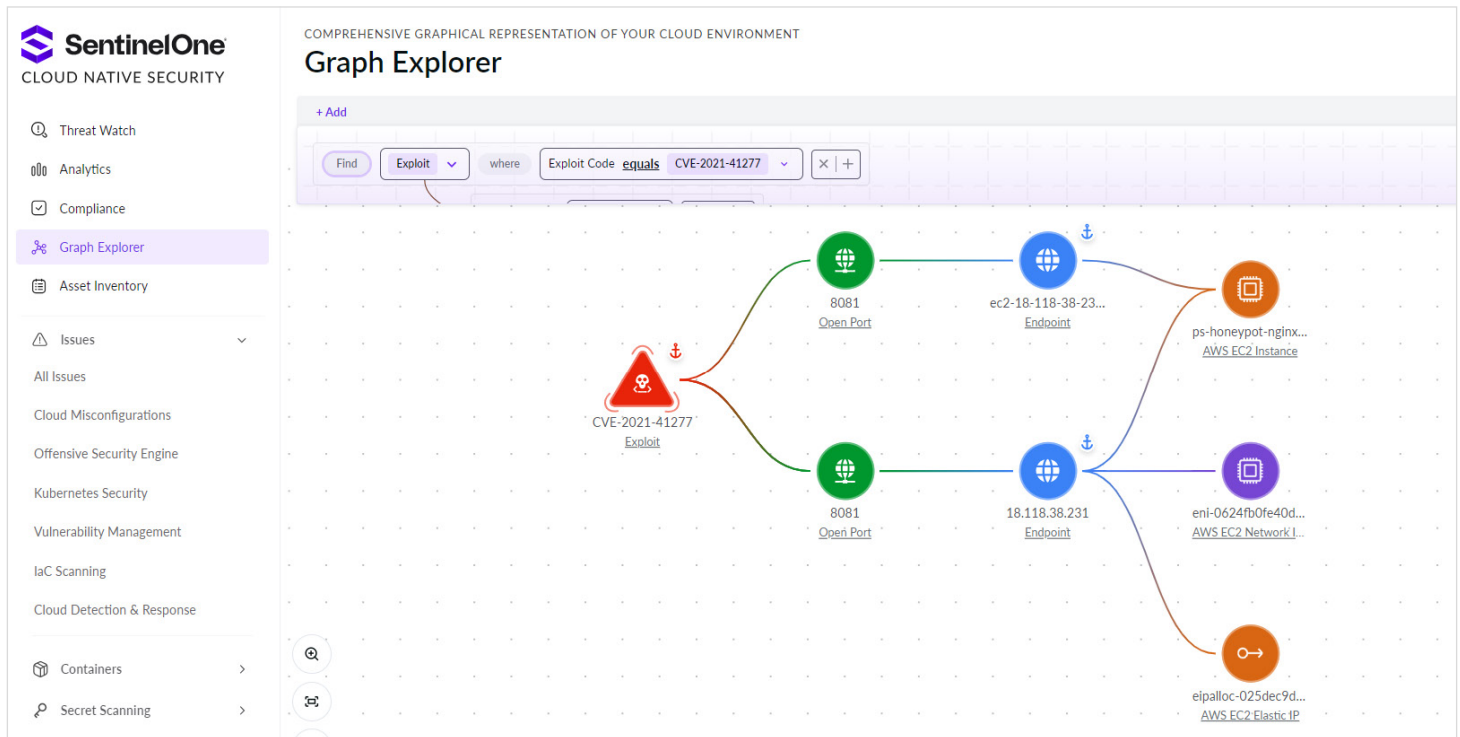
The screenshot shows the SentinelOne Cloud Native Security interface. The main content area displays an issue titled "One or more AWS security groups have TCP port 5601 for Kibana open to the public, creating potential vulnerabilities". The description explains that this policy identifies if the TCP port 5601, utilized by Kibana, is potentially exposed to the public. Access to Kibana, a robust user interface for data visualization and search queries in Elasticsearch, should be deliberately restricted to minimize security risks. Improper configurations, such as allowing access to the entire IP addresses range i.e., 0.0.0.0/0, lead to unnecessary exposure of sensitive services. Contrary to ports like HTTP and HTTPS, which necessitate public access for proper functioning, Kibana's reach should be consciously limited to trusted and known IP addresses.

A modal window titled "aws/ec2/demo.tf" displays the following Terraform code:

```
42 resource "aws_security_group" "demo_sg" {
43   vpc_id = aws_vpc.demo_vpc.id
44
45   egress {
46     from_port = 0
47     to_port   = 0
48     protocol = "-1"
49     cidr_blocks = ["0.0.0.0/0"]
50   }
51
52   ingress {
53     from_port = 0
54     to_port   = 0
55     protocol = "-1"
56     cidr_blocks = ["0.0.0.0/0"]
57   }
58
59   tags = {
60     Name = "demo_sg"
61   }
62 }
```

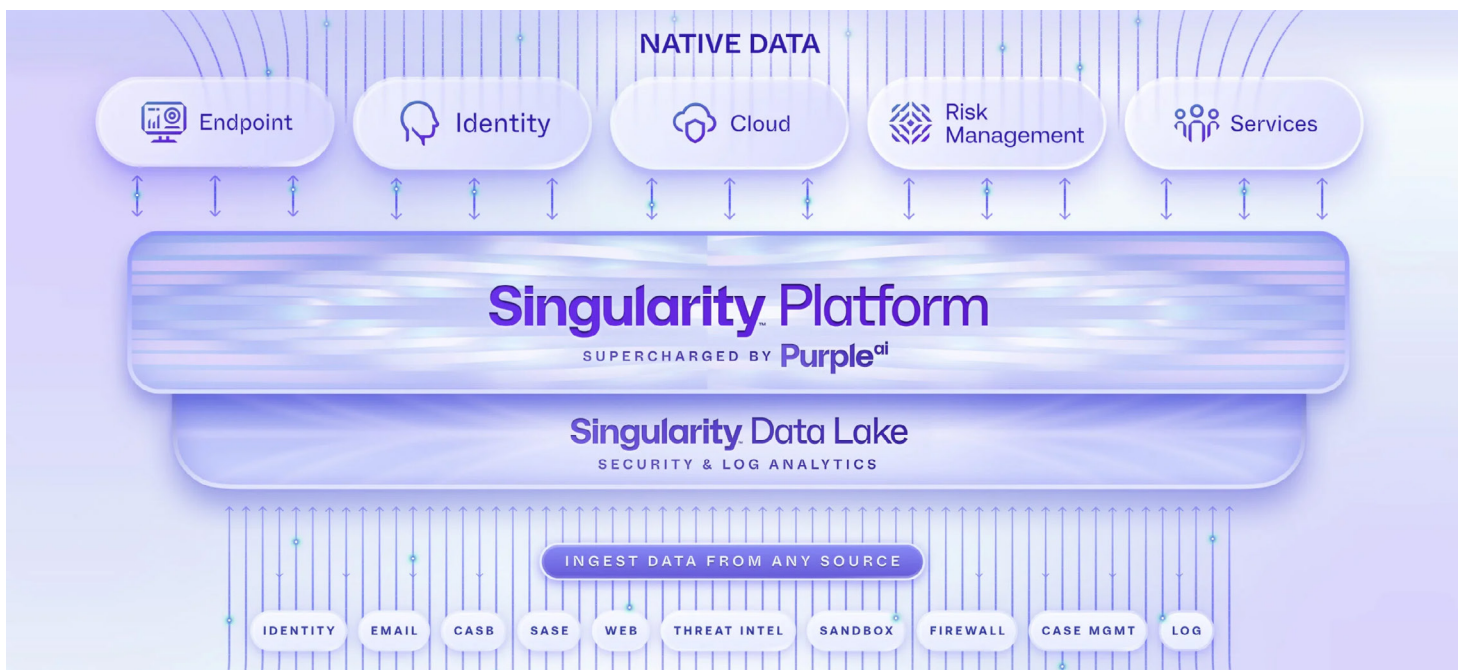

Graph Explorer

Graph Explorer facilitates investigation of Verified Exploit Paths through visual analysis of the potential blast radius of cloud resources affected by an identified vulnerability. It also includes a convenient means of intuitively writing queries via the visual interface, to quickly create and apply custom policies to a specific resource group with a few simple clicks.



Cloud Security in The Singularity™ Platform

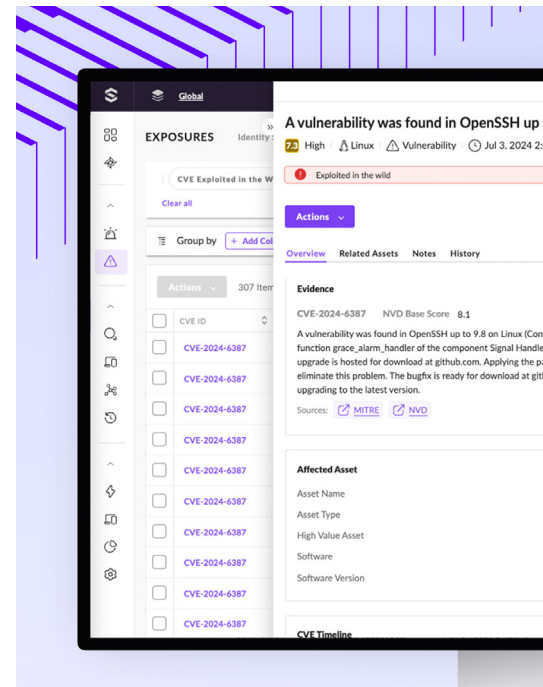
The Singularity™ Platform offers comprehensive threat prevention, detection, and response that is easy to use and which spans across complex enterprise environments.



Singularity™ integrates SentinelOne’s high-performance security solutions spanning endpoint (EDR, Endpoint Detection & Response), cloud (CNAPP, Cloud Native Application Protection Platform), and identity (ITDR, Identity Threat Detection & Response). An enterprise can combine and customize these native solutions to their specifications, all managed from a single console and security data lake.

Security practitioners need visibility into ALL relevant, actionable events from the entire enterprise security estate to enrich investigations with necessary context and provide a means to hunt across alerts from cross-telemetry data sources. To address this need, the Singularity™ Platform leverages a centralized security data lake, ingesting telemetry from both SentinelOne-native endpoint, cloud and identity solutions as well as an ever-growing list of 3rd-party security tools and sources used by our customers. The Singularity™ Data Lake provides SecOps practitioners the ability to contextually visualize and automatically respond to any high-value security alerts by leveraging a single, cloud-scale repository that offers the greatest retention period and cost efficiency of any vendor in the market.

Used by some of the industry’s largest and most respected IR and MDR partners, the Singularity™ Platform delivers immediate time-to-value, ensuring a future-proof solution that will continuously evolve to meet the growing cybersecurity needs of our customers.



Cloud Native Security Packaging

Feature	Foundations	Pro
Cloud Misconfigurations & Compliance (CSPM)	✓	✓
Vulnerability Scanning (agentless)	✓	✓
Security Graph	✓	✓
Container and K8s Security (KSPM)	✓	✓
Verified Exploit Paths™	✓	✓
Cloud Detection & Response (CDR)	✓	✓
Secret Scanning (Public + Private)		✓
IaC Scanning		✓
Auto Remediation + Integration with Web Hooks		✓

Singularity™ Platform

Proactively resolve threats in real-time at the site of the cybersecurity battle: the computing and cloud edge.

Ready for a Demo?
Visit SentinelOne.com for more details.



Innovative. Trusted. Recognized.



Record Breaking ATT&CK Evaluation
+ 100% Protection. 100% Detection
+ Outstanding Analytic Coverage, 4 Years Running
+ 100% Real-time with Zero Delays



98% willing to recommend
CNAPP ranks highly in customer satisfaction, innovation, and performance



97% of Gartner Peer Insights™
CNAPP Reviewers Recommend Singularity Cloud Security By SentinelOne



About SentinelOne

SentinelOne is the world’s most advanced cybersecurity platform. The SentinelOne Singularity™ Platform detects, prevents, and responds to cyber-attacks at machine speed, empowering organizations to secure endpoints, cloud workloads, containers, identities, and mobile and network-connected devices with intelligence, speed, accuracy, and simplicity. Over 11,500 customers—including Fortune 10, Fortune 500, and Global 2000 companies, as well as prominent governments—all trust SentinelOne to Secure Tomorrow.

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