



CASE STUDY

APIGEE TURBOCHARGES SECURITY FOR DEVOPS WITH DOME9



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Layne Bro
Head of
Information Security



ABOUT APIGEE

Apigee is the leading provider of Application Programming Interface (API) technology and services for enterprises and developers. Apigee helps its customers manage API complexity and risk across multi-cloud environments, ensuring security, visibility, performance and accelerating the pace of digital business. The Apigee Edge API management solution covers everything from backend systems of record to the customer who interacts with an application. Over 30% of the Fortune 100, four of the top five Global 2,000 retail companies, and five of the top 10 global telecommunications companies rely on Apigee.

SECURITY CHALLENGES

As a 100% cloud-based company, Apigee depends on the cloud for both development and production. Amazon Web Services (AWS) is a great fit for Apigee's agile development model and DevOps processes. But with hundreds of security groups across several regions, it was becoming difficult for Apigee to keep track of security policy configurations and ensure that these policies were being enforced. The company needed a tool that not only provided security visualization and management, but ongoing enforcement of security best practices.

SOLVING THE PROBLEMS OF A GROWING DEVOPS ENVIRONMENT

Apigee turned to Dome9 for the solution to these problems. The **Dome9 Arc** platform delivers comprehensive security and compliance across public cloud infrastructure, allowing teams to visualize their security posture, identify and mitigate risks and threats, model policies, and conform to security best practices. **Dome9 Clarity**,

a powerful visualization tool, displays the network topology of all cloud assets in real-time, including security groups, instances, templates and more, allowing potential misconfigurations and security threats to be quickly identified and fixed. Clarity was a strong selling point for the Dome9 solution within Apigee. Once managers and engineers saw the powerful visual representation that Clarity provided, including VPC flow log overlays, they recognized that it was not only a security tool but a valuable tool to support operations.

Dome9 Arc immediately identified over 150 security groups that might be at risk, providing information that Apigee was able to act on without delay. It allowed Apigee to see who was making changes to security groups and lock down the environment using the **Dome9 Region Lock** feature, so that changes could only be made through authorized administrators using the Dome9 console.

APIGEE REAPS REWARDS WITH DOME9

1. Reduced Headcount Requirements

Apigee's small security and IT teams—just a handful of people—are responsible for multiple cloud environments and multiple accounts across twelve regions around the world with thousands of security groups. The Dome9 Arc platform automates the entire security environment and sends alerts if something goes wrong. The automation has resulted in substantial security headcount cost savings with Apigee not having a need to hire additional security personnel as the company has grown.

2. Secure, On-Demand Access to Cloud Environments from Anywhere

Apigee has employees around the world working remotely. The traditional approach to providing secure access would be to have everyone connect to a main office via VPN to get to the cloud. By using Dome9 Dynamic Access Leases, Apigee employees—referred to internally as “Apigeeks”—are able to access the cloud directly.

Dynamic Access Leases open administrative ports only for secure, on-demand access. Users request and receive time-based access to cloud servers and services, reducing the attack surface while avoiding the hassles of VPNs. According to Layne Bro, Apigee Head of Security, “Our goal is to make everything that can be invisible to the world invisible, but 100% available and immediately accessible by any employee anywhere, at any time, on any platform. Because they are so easy to use, Dome9 Dynamic Access Leases make that a reality.”

3. Tamper Protection: Preventing Unauthorized Policy Changes

One of the biggest security risks occurs when developers and administrators change security settings to fix a problem. Such changes are quickly forgotten, so they become permanent. With **Dome9 Tamper Protection**, Apigee employees can only make security changes through the Dome9 console, where they are fully logged and audited. Attempts to circumvent the tool are rolled back automatically, as are incorrect or unauthorized changes.

4. Streamlining Audits for Regulated Environments

Apigee supports PCI DSS and HIPAA compliance, as well as many other regulated environments, and undergoes multiple audits a year as a result. Many customers also request reviews of Apigee's security practices. Dome9 software provides printable reports with audit log trails that helps Apigee demonstrate compliance status. The time required to prove that a cloud environment meets compliance regulations has gone down from a full day to just thirty minutes, saving all parties time and money.

5. Maintaining Velocity and Agility

Apigee pushes code frequently. With just a handful of IT and security people supporting over 400 employees, everything has to be fast and simple. “To succeed in a busy and growing DevOps environment, we need to empower all of our employees to get their jobs done on their own, while maintaining oversight and control over what is changing,” said Bro. “Dome9 allows everyone to do what they need to do, without sacrificing the ability to monitor and stop changes that aren't supposed to happen.”

ABOUT DOME9 SECURITY

Dome9 delivers verifiable cloud infrastructure security and compliance to all businesses at all times across all public clouds. The Dome9 Arc platform leverages cloud-native security capabilities and cloud-agnostic policy automation to bring comprehensive network security, advanced IAM protection and continuous compliance to every public cloud environment. Dome9 offers technologies to assess security posture, detect misconfigurations, model gold standard policies, protect against attacks and insider threats, and conform to security best practices in the cloud. Businesses use Dome9 Arc for faster and more effective cloud security operations, pain-free compliance and governance, and Rugged DevOps practices.

Learn more at www.dome9.com.

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