Zero Trust Automation At A Glance

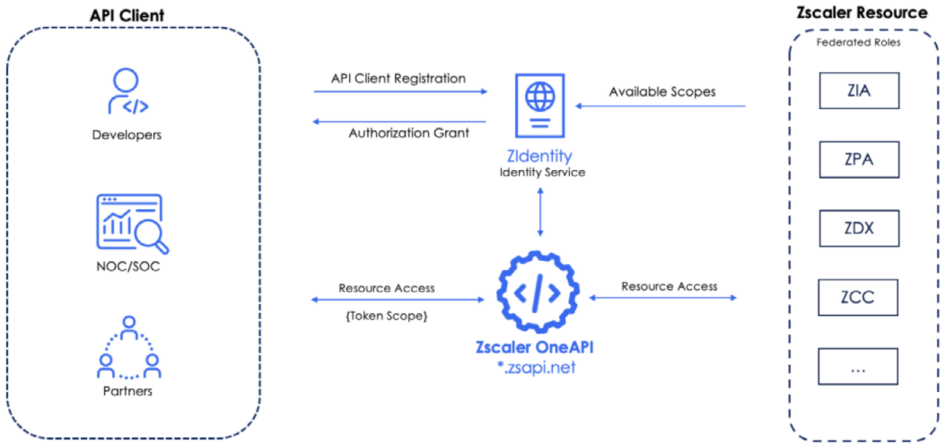
To help manage the proliferation of IT products and applications, there has been a trend away from human interactions via a user console toward greater adoption of automation. This helps IT teams cope with sprawl, and reduce opportunities for human error which can lead to costly security breaches.

In the era of AI being used to write code to perform regular job duties, automation has already effectively become the new administrator. Reflecting this trend, Zscaler has introduced OneAPI, an automation service that's specifically designed for automation engineers.

Automation at Zscaler

Zscaler operates an API first approach so that every service and feature is built to be accessed and configured via API. The Zscaler web console that human security engineers have been using for many years, interacts on the backend via APIs. In addition to the web console, this elegant approach has enabled automation engineers to efficiently deploy and maintain Zscaler solutions via code.

With the introduction of OneAPI, Zscaler is taking this approach to the next level, further improving security and operational efficiency for automation engineers.



Zscaler OneAPI

Zscaler OneAPI is a single programming interface for the Zscaler platform. This straightforward approach accelerates adoption, deployment, and maintenance of Zscaler solutions. OneAPI enables automation to become another administrator, with identity, auditing, visibility and change control all available for API clients.

Zscaler OneAPI has a global footprint, leveraging a distributed cloud native platform for low latency and high availability. API calls are routed to the closest region, and respect geographic data sovereignty requirements.

OAuth 2.0

Authentication and authorization of API clients follows OAuth 2.0 standards for both coarse and fine-grained role-based access control (RBAC). This enables security teams to hold automation accountable at the same level as a human administrator. Every API call is logged against the identity of the API client, and tracked to completion. The activity trace is auditable, and behavioral restrictions can also be enforced, just like human users.

API clients on ZIdentity

OneAPI relies on Zscaler's ZIdentity unified identity platform for API client identity registration and ongoing management. No separate activation or provisioning is required: customers using ZIdentity can configure API clients as they would human clients. ZIdentity acts as the central decision point for what scopes an API client is authorized for, and those can be adjusted at any time. Full visibility and control is maintained, with audit logs and request IDs propagated throughout the system.

Why Adopt Zero Trust Automation?

	Problem:	Solution:
Speed and Scalability Challenges	▪ Security incidents or regulations driving a need for rapid adoption of zero trust. ▪ Time from purchase to deployment taking too long ▪ Quickly integrating organizations following M&A. ▪ Rolling-out franchise or branch locations.	▪ Reduce repetition of steps across products ▪ Use templates to accelerate on a use case basis
Complexity Challenges	▪ Point products/solutions complicate administration ▪ Complexity leads to greater risk of security gaps ▪ Lack of split accountability across individuals/teams, concentrating responsibility on the security team	▪ New framework allows for segregation of responsibilities when creating policies ▪ RBAC on APIs ▪ Shared responsibility for policies and exceptions ▪ Empower business functions and app developers to create security policies they need, reducing load on the security team
Resource Optimization	▪ Risk of human error—typos, errors in testing, updates (break in internet access) ▪ Too many mundane tasks risks poor job satisfaction ▪ Underutilized, expensive human talent	▪ Code reviews ahead of deployment ▪ Restore points available in code in case of a need to roll back ▪ Automation can act as first line of defense (proactive response, e.g., UEBA alert forces re-auth, sandboxing) ▪ Engineers can focus on more challenging and rewarding work

Zscaler OneAPI enables customers to make automation an administrator, accelerating time for deployment and integrations and reducing opportunities for human error to better secure the organization. With OneAPI, customers can unlock new use cases, such as microsegmentation projects, auditing their environment and optimizing their team's return on investment.

To learn more about Zscaler platform automation with OneAPI, visit zscaler.com or speak to your Zscaler account team. Engineers can dive deeper at our help site: https://help.zscaler.com/oneapi

+1 408.533.0288 Zscaler, Inc. (HQ) • 120 Holger Way • San Jose, CA 95134 zscaler.com