Automating application security for seamless deployments

The Challenge

The pure velocity in which developers are releasing new applications into the cloud makes it impossible for SecOps to keep up, automation and established guardrails are critical.

Product Integration

Check Point leverages Consul-Terraform-Sync to achieve Network Infrastructure Automation and dynamically manage registration/de-registration of Consul services with existing network infrastructure.

How It Works

HashiCorp Consul is a service mesh solution that helps organizations discover and securely connect any service, across any environment. Consul helps customers consolidate all their services in a centralized registry with real-time health checks for availability. Without Consul, tracking and connecting applications can be a very manual and intensive process, prone to mistakes. Using Consul as a source of truth for the location and health of all services we can automate networking tasks, like changes on our firewalls, and reduce the burden on network operators.

Check Point integrations with Consul-Terraform-Sync (CTS) via the Dynamic Objects module for Network Infrastructure Automation (NIA). This module allows users to support **Dynamic Firewalling** offered by Check Point Software Technologies Cloud and Network-based Security Gateway devices. CTS dynamically manages registration/de-registration of **Dynamic Objects** based on services in the Consul catalog and executes those changes using Terraform.

This enables teams to reduce manual ticketing processes, reducing the burden on operators, and automate Day-2 operations related to application scale up/down in a way that is both declarative and repeatable across the organization. For more information, please review the Check Point module documentation.
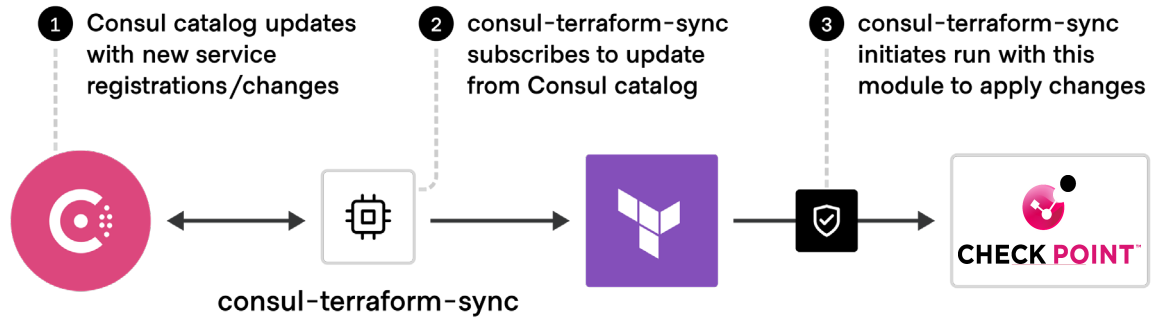
Use Cases

Use Case 1: Velocity

Scaling application development by creating security and compliance guardrails to automate best practices and streamline development cycles without slowing down application delivery.

Use Case 2: Protection

Scanning of code during CI/CD to address issues of misconfigurations or security vulnerabilities and apply consistent policies before applications go into production.

Company Info

Check Point provides unified cloud native security for cloud resources, automating security, preventing threats, and managing posture – across multi-cloud environment.
https://www.checkpoint.com/products/cloud-native-security/