

INCREASE API SECURITY for Azure API Management

42CRUNCH HAS THE UNIQUE CAPABILITY TO FEED TRULY SECURITY TESTED APIs INTO THE API MANAGEMENT LIFECYCLE.

42Crunch implements a proactive approach to API security by certifying at design time the Swagger/OAS files used to build the security policies for the API Gateway to protect APIs at runtime.

API Gateways have provided the platform for the explosion in the adoption of APIs over the past decade. The flipside of this success has been the rise of API attacks which now represent the most-frequent attack vector for data breaches of enterprise web applications. The Azure API Gateway offers a good set of capabilities for role-based access control, rate limiting and content verification, but that is not enough in today's world. It requires an approach that starts at the beginning of the API lifecycle and automates it until it hits production. 42Crunch integrates with Azure to upgrade its API management offering, with a robust set of security testing and governance capabilities, enabling full end-to-end API security.

RUNTIME PROTECTION AZURE APIM

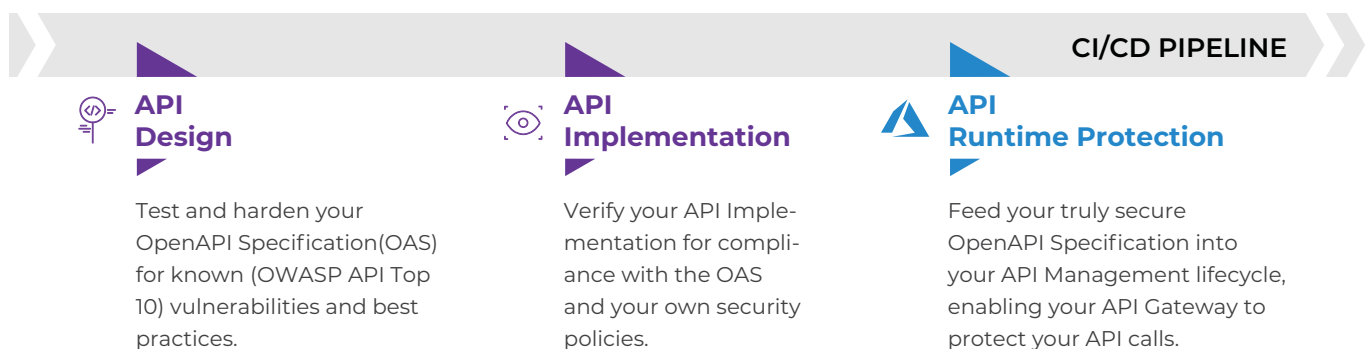
- Integrate with Identity Management systems to protect against unauthenticated and unauthorized access
- Content validation
- Parameter validation
- Validate JWT
- Limit call rate

DESIGN TIME SECURITY GOVERNANCE 42CRUNCH

- Detect potential security vulnerabilities from design time through analysis of OpenAPI/Swagger files
- Build secured JSON schemas which can be used effectively in the content validation policies inside the Azure API Gateway
- Automatically test the APIs' conformance to the specifications defined in OpenAPI Spec file
- Test security resilience of the APIs as part of continuous integration with Azure pipeline
- Import the security tested OAS file straight into your API Management services to increase your API Security



AUTOMATE YOUR SECURE API LIFECYCLE



AUTOMATING API SECURITY WITH 42CRUNCH

Leveraging 42Crunch, Azure admins reduce manual tasks and automate security into the API workflow in order to get secure code quickly out the door and into production. Following the steps below, Azure admins can focus on driving API utilization in the API Developer Portal.

HOW DOES 42CRUNCH INCREASE YOUR API MANAGEMENT SOLUTION

- 01** 42Crunch audits your OAS files for known OWASP API Security Top 10 Vulnerabilities and provides remediation help inside the developer's IDEs.
- 02** 42Crunch scans the API implementation continuously against the contract, detecting drifts and implementation security issues.
- 03** Approved OAS file is used to create an API in Azure API Management services.
- 04** Assign predefined security rules for content validation to the Inbound & Outbound processing to increase API Security.
- 05** All the above steps should be automated using Azure DevOps pipeline tools to promote the secured API from design through the environments to production.

