# Distributed Cloud Services Release Notes

## March 2024

Welcome to the product release notes for F5® Distributed Cloud Services. Each month, the product team provides additional details on key features and enhancements in this release.

**Maintenance Update**

We will be adding new IP ranges to our RE after the March 26th upgrade. If you have configured IP filters on your side to only authorize traffic from the F5 infrastructure, please add the following range:

| | |
|---|---|
| Asia | 159.60.170.0/24, 159.60.172.0/24 |
| America | 159.60.174.0/24. 159.60.176.0/24 |
| EU | 159.60.178.0/24, 159.60.182.0/24 |

Please refer to https://docs.cloud.f5.com/docs/reference/network-cloud-ref for more detail. If you have any questions regarding this change, F5 Support can be contacted as detailed here: https://docs.cloud.f5.com/docs/support/support

# APPLICATION SECURITY

## Web Application and API Protection (WAAP)

### API Endpoint Vulnerability Management with New Security Posture Vulnerability Management

Users can now manage the status of API Endpoint vulnerabilities with new modes. The new feature, 'Security Posture vulnerabilities Change State', allows users to categorize vulnerabilities into four distinct statuses: Open, Under Review, Resolved, and Ignored. This categorization aids in identifying new issues, monitoring ongoing reviews, and recognizing resolved items. Once vulnerabilities are addressed or set to ignored, they are automatically moved to the Archive tab.

### JWT Validation Enhancements

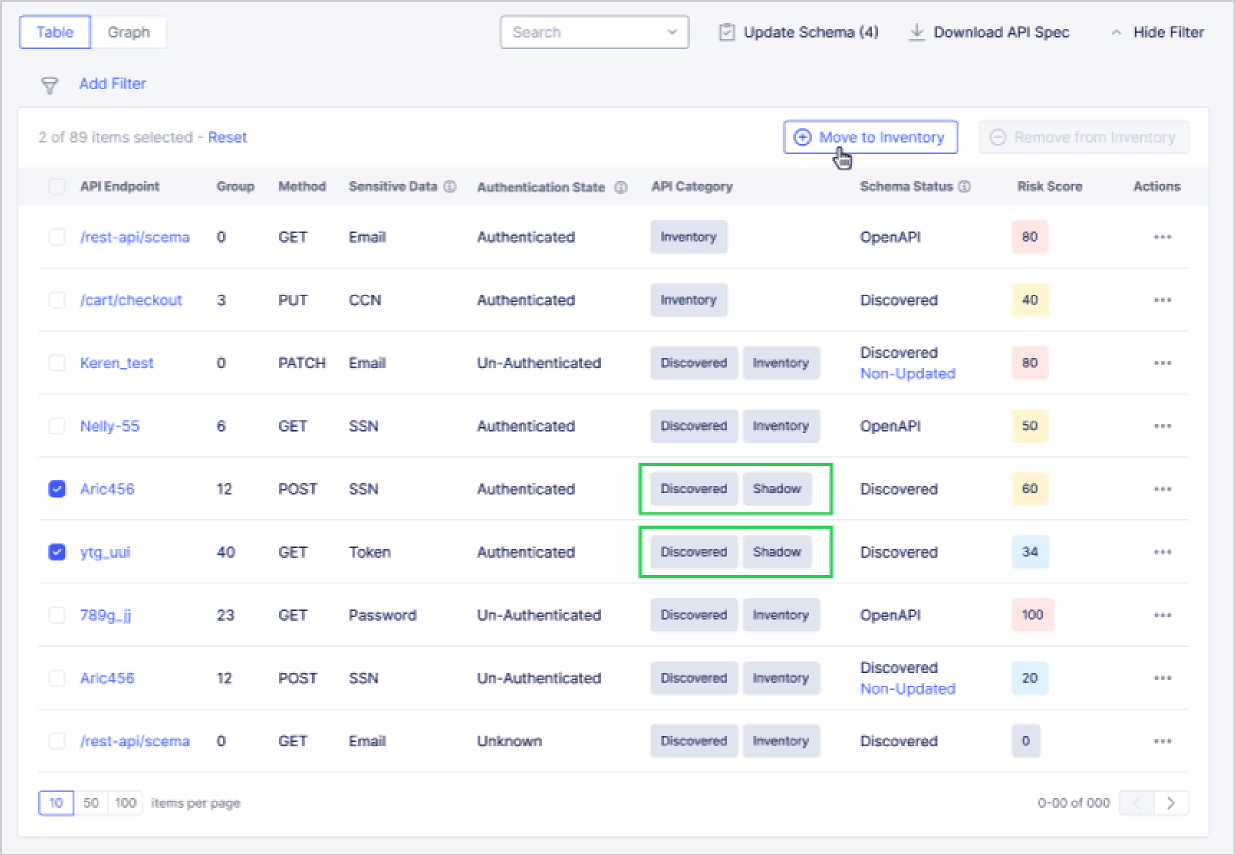
This builds on already existing JWT validation capabilities, providing added support for JWT claims validation and user identification based on JWT claims. Ensuring incoming tokens are not only verified for authenticity but that the claims in these tokens are leveraged to determine access rights and permissions. This includes:

- Mandatory Claim Validation allows specifying custom JWT claims, ensuring tokens meet your precise authentication requirements.
- Enhanced User Identification leverages JWT claims for more accurate user session management.
- Service Policy Rules with JWT Claim Matchers introduce the ability to create access controls based on specific JWT claim values.

Overall, this release strengths the JWT validation capability within F5 Distributed Cloud API Security, providing users more granularity and control over how the service reviews and responds to access claims.

### API Endpoints Inventory Management

API Inventory Management is designed to empower organizations to better manage their API inventories, adapting quickly to new developments and ensuring a secure and efficient API ecosystem. Introducing API Inventory Management, a feature designed to enhance your API ecosystem by simplifying the management of your API inventory. It allows for easy management of discovered APIs, the marking of non-API discoveries, removal of outdated endpoints, and seamless updates to API schemas. This tool helps users keep their API inventory organized, current, and secure, catering to today's dynamic API environments.



2 of 89 items selected - Reset

| ☐ | API Endpoint | Group | Method | Sensitive Data | Authentication State | API Category | Schema Status | Risk Score | Actions |
|---|---|---|---|---|---|---|---|---|---|
| ☐ | /rest-api/scema | 0 | GET | Email | Authenticated | Inventory | OpenAPI | 80 | ••• |
| ☐ | /cart/checkout | 3 | PUT | CCN | Authenticated | Inventory | Discovered | 40 | ••• |
| ☐ | Keren_test | 0 | PATCH | Email | Un-Authenticated | Discovered Inventory | Discovered<br>Non-Updated | 80 | ••• |
| ☐ | Nelly-55 | 6 | GET | SSN | Authenticated | Discovered Inventory | OpenAPI | 50 | ••• |
| ☑ | Aric456 | 12 | POST | SSN | Authenticated | Discovered Shadow | Discovered | 60 | ••• |
| ☑ | ytg_uui | 40 | GET | Token | Authenticated | Discovered Shadow | Discovered | 34 | ••• |
| ☐ | 789g_jj | 23 | GET | Password | Un-Authenticated | Discovered Inventory | OpenAPI | 100 | ••• |
| ☐ | Aric456 | 12 | POST | SSN | Un-Authenticated | Discovered Inventory | Discovered<br>Non-Updated | 20 | ••• |
| ☐ | /rest-api/scema | 0 | GET | Email | Unknown | Discovered Inventory | Discovered | 0 | ••• |

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*API endpoints dashboard with critical API management capabilities to easily categories endpoints.*

### API Protection – More Granular Rate limiting Enhancements with Advanced Request and Client Conditions

With this release, we've expanded our API rate limiting capabilities to include conditions based on Query, Header, or Cookie parameters, along with a new duration/period option.

- Advanced Request Conditions: Users can now implement rate limiting conditions based on specific Query parameters, Headers, or Cookies, allowing for more granular control over API access and usage.
- Client Condition Enhancement: We've improved the way client conditions are defined and managed, making it easier to customize rate limiting rules that match your specific application and API endpoint needs.
- New Duration Period - Hours: We've added 'hours' as a new duration period for rate limiting. This option complements our existing range of time-based restrictions, providing additional flexibility for managing API traffic.

This update provides greater flexibility and more granular control in developing policies that govern API usage.

### Service Policy Custom Rules Now Supports "Invert Match" for HTTP Path

This functionality provides flexibility and greater granularity in developing service policies, including the creation of advanced match criteria to address specific use cases, as invert match is now supported for HTTP Path in addition to HTTP Methods and HTTP Headers.

**WAF Exclusion Rule Enhancements**

Within this release, we have added more capabilities to the existing WAF exclusion rule functionality. Allowing users to exclude all or any individual signature in specific context. This WAF exclusion rules update provides users more flexibility and control in managing WAF policy for their different application requirements.

# SECURE MULTI-CLOUD NETWORKING

## Network Connect

### Manual Mode Deployment of Customer Edge (CE)

Manual mode is another method of deploying CE sites that provides greater flexibility and deployment customization that caters to varying customer needs. This latest feature allows customers to improve control on how they orchestrate their cloud resources, catering to their architectural and security requirements, especially in brownfield environments.

In addition, Manual Mode is an option for customers who don't wish to input their Cloud Service Provider (CSP) credentials on F5XC console. Manual mode deployment is possible via the CSP Console and via their Terraform Provider. In this release, we are releasing Manual mode for AWS. Manual mode for additional providers will follow.

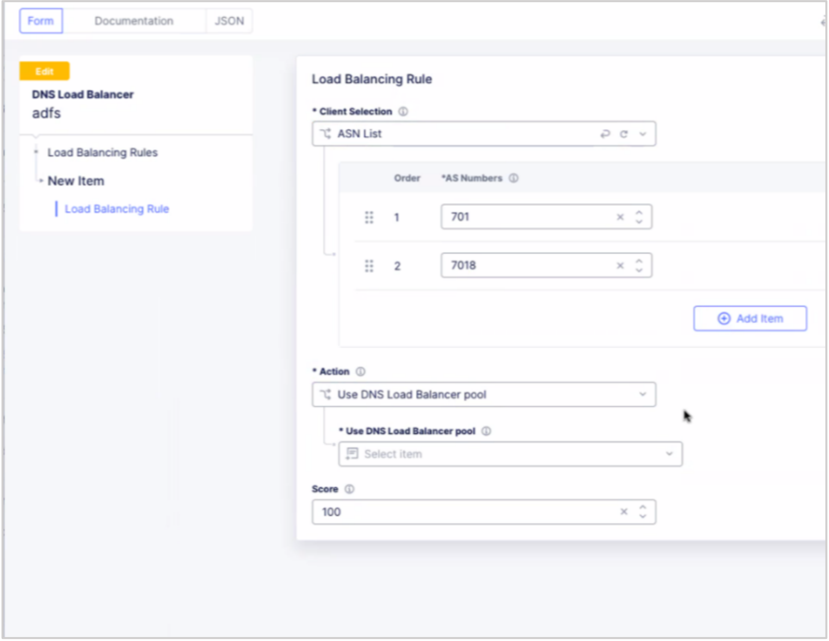
# APPLICATION PERFORMANCE

## XC DNS Load Balancer (XC DNSLB)

### Addition of AS Numbers (ASN) for Traffic Direction

F5 Distributed Cloud DNS Load Balancer (DNSLB) now supports ASN's to further enhance customers' traffic routing abilities. An Autonomous System (AS) is a group of IP networks run by one or more network operators (i.e. a service provider) with a unified routing policy. When exchanging exterior routing information, each AS is identified by a unique number: the ASN.

Support for ASN-based routing gives DNSLB users more options to direct traffic to specific locations (i.e. a specific DNSLB pool) thus enhancing app delivery efficiency. Currently, some users may employ Geolocation for routing purposes. Geolocation uses Geo-IP, and Geo-IP uses IP databases which may not always be up to date. By using ASN's, customers can insure that the resources they are pointing traffic to are accurate and available.



DNS Load Balancer
adfs

Load Balancing Rule

* Client Selection: ASN List

| Order | *AS Numbers |
|---|---|
| 1 | 701 |
| 2 | 7018 |

* Action: Use DNS Load Balancer pool

* Use DNS Load Balancer pool: Select item

Score: 100

*Setting AS Numbers as part of a DNSLB load balancing rule in the XC console.*

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**Please see the full F5 Distributed Cloud Changelog for additional information, including more new enhancements plus known issues and caveats. We hope you find the information contained in these release notes useful. If you have any feedback, please email: CS_DistributedCloudTeam@f5.com**