



Automation and API

FortiFlex Brief

FORTINET[®]

FortiFlex Automation

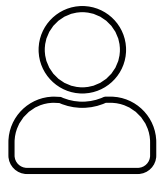
Background

FortiFlex services can be accessed, configured, and managed from within the FortiFlex portal and through the FortiFlex API. The FortiFlex API allows you to automate your processes and is synchronized with the portal UI. Therefore, changes made in the FortiFlex API will appear in the FortiFlex portal for ease of use.

Benefits of FortiFlex automation

- The FortiFlex API fully automates program management operations, such as creating and managing configurations and entitlements.
- Automation allows for the deployment and scaling of devices and services.
- Devices and services can be decommissioned without needing to access the FortiCloud Asset Management portal.
- The FortiFlex API allows for integration with Fortinet and third-party solutions.

Prerequisites



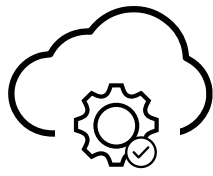
FORTICLOUD API USER

Create a FortiCloud IAM API user with Read/Write permissions to the FortiFlex portal. See [API users](#).



OAUTH CREDENTIALS

The tool interacting with the FortiFlex API must provide user credentials for authentication through OAuth by calling the customer API.



ACCESS TOKEN

An access token from the customer API must be used on each FortiFlex API endpoint call.

FortiFlex Documentation

- [FortiFlex Administration Guide](#)
- [Fortinet Developer Network – FortiFlex API documentation](#)

Additional Documentation

- [FortiManager Administration Guide](#)
- [FortiManager New Features Guide](#)
- [FortiSOAR Connectors](#)
- [FortiSOAR Playbooks Guide](#)

Automation Solutions

Leveraging the FortiFlex API

The FortiFlex API can be employed through various solutions, including:

Direct Requests to FortiFlex API

- Ideal for scripts and cloud orchestration platforms
- Can be directly interacted with by using an API toolkit solution, such as POSTMAN

Terraform

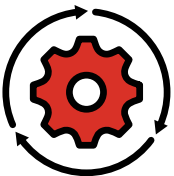
- Allows integration with FortiFlex into Terraform code
- Provider interacts with the FortiFlex API
- Manages authentication tokens automatically

Ansible

- Allows playbooks to run and interact with the FortiFlex API
- Manages authentication tokens automatically

Leveraging fabric connectors

Fabric connectors integrate FortiFlex into the Security Fabric and can manage authentication tokens automatically. Supported fabric connectors include:



FortiSOAR

- Includes a FortiFlex connector that allows playbooks to interact with the FortiFlex API. See [FortiSOAR Connectors](#).
- Allows for the automation of multiple tasks, such as managing configurations, entitlements, and groups.
- Contains sample playbooks for all supported actions.



FortiManager

- Includes a FortiFlex connector that provides the ability to license managed FortiGate and FortiWeb VMs using FortiFlex entitlements. See the [FortManager Administration Guide](#).
- Allows for target VMs to be in an air-gapped environment using FortiManager as a license and updating server.

Example

The following example demonstrates the JSON API POST /configs/create request body and response when creating a FortiGate VM configuration through the FortiFlex API. For more information, see the [FNDN FortiFlex API documentation](#).

Request

```
{
  "programSerialNumber": "ELAVMRXXXXX",
  "accountId": 12345,
  "name": "Demo Configuration",
  "productId": 1,
  "parameters": [
    {
      "id": 1,
      "value": 4
    },
    {
      "id": 2,
      "value": "UTM"
    }
  ]
}
```

Response

```
{
  "status": 0,
  "message": "Request processed successfully:",
  "error": null,
  "configs": [
    {
      "id": 22,
      "name": "Demo Configuration",
      "programSerialNumber": "ELAVMRXXXXX",
      "accountId": 12345,
      "status": "ACTIVE",
      "productId": {
        "id": 1,
        "name": "FortiGate VM"
      },
      "parameters": [
        {
          "id": 1,
          "name": "CPU",
          "value": 4
        },
        {
          "id": 2,
          "name": "SERVICEPACK",
          "value": "UTM"
        }
      ]
    }
  ]
}
```