

2.2.1.6: Activity - APIC-EM Swagger Documentation-3

Swagger is a framework for development and documentation of RESTful APIs under the OpenAPI specification. It provides a standard way to document APIs that is consistent in presentation and functionality.

The APIC-EM uses a token for authentication. Tokens are called a service tickets. To request a service ticket, you send POST request to the API /ticket endpoint.

Complete the following steps to inside the Swagger documentation to request a service ticket for the APIC-EM.

Note: Use the APIC-EM URL and credentials that have been supplied by your instructor. The examples provided in this activity refer to the public DevNet APIC-EM instance.

1. Login to your APIC-EM instance with the appropriate credentials..
2. Click **API** in the top right corner of the home screen.
3. Click **Role Based Access Control > ticket > POST /ticket**. You should see the documentation for the method to create a new user ticket, as shown in Figure 1.

Figure 1: Documentation for Creating a New Ticket

APIC-EM Service API based on the Swagger™ 1.2 specification

[Terms of service](#)
[Cisco DevNet](#)

aaa : APIs to register and manage AAA Servers [Show/Hide](#) [List Operations](#) [Expand Operations](#) [Raw](#)

role : Role Description API [Show/Hide](#) [List Operations](#) [Expand Operations](#) [Raw](#)

ticket : Ticket Management API [Show/Hide](#) [List Operations](#) [Expand Operations](#) [Raw](#)

POST /ticket [addTicket](#)

Implementation Notes
This method is used to create a new user ticket

Response Class
[Model](#) [Model Schema](#)

```

TicketRbacResult {
  version (string, optional),
  response (ServiceTicketRbac, optional)
}

ServiceTicketRbac {
  idleTimeout (integer, optional),
  serviceTicket (string): Service Ticket to be used as authentication Ticket,
  sessionTimeout (integer, optional)
}

```

Response Content Type: application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
user	<div style="border: 1px solid #ccc; height: 80px; width: 100%;"></div>	user	body	Model Model Schema User { password (string): password, username (string): username }

Parameter content type: [application/json](#)

Error Status Codes

HTTP Status Code	Reason
200	This Request is OK
202	This Request is Accepted
403	This user is Forbidden Access to this Resource
401	Not Authorized Yet, Credentials to be supplied
404	No Resource Found

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4. Click **Model Schema**.
5. Click the yellow box under **Model Schema**.
6. Enter the password and username credentials between the quotes.

7. Click **Try it out!**.

8. If successful, the ticket number will be in the response body JSON, as shown in Figure 2.

Figure 2: JSON Response with Ticket Number

The screenshot displays the Swagger UI for the APIC-EM API. The 'Parameters' section shows a 'user' parameter with a JSON body containing 'password' and 'username' fields. The 'Error Status Codes' table lists HTTP status codes and their reasons. The 'Request URL' is 'https://sandboxapicem.cisco.com/api/v1/ticket'. The 'Response Body' shows a JSON response with a 'serviceTicket' field.

Parameter	Value	Description	Parameter Type	Data Type
user	{ "password": "Cisco123!", "username": "devnetuser" }	user	body	Model Model Schema

Parameter content type: **application/json**

HTTP Status Code	Reason
200	This Request is OK
202	This Request is Accepted
403	This user is Forbidden Access to this Resource
401	Not Authorized Yet, Credentials to be supplied
404	No Resource Found

Try it out! [Hide Response](#)

Request URL

https://sandboxapicem.cisco.com/api/v1/ticket

Response Body

```
{
  "response": {
    "serviceTicket": "ST-2955-kt5bp5XhAhaSrRJCsnAP-cas",
    "idleTimeout": 1800,
    "sessionTimeout": 21600,
    "version": "1.0"
  }
}
```

Next, you will learn how to use Postman and Python to request a service ticket.