

1. Collectives can be hosted on which platform
 - a. Linux Server
 - b. Windows
 - c. MS DOS
 - d. M.Linux
2. How to define user-defined policies for IBM Bluemix → Feature Not Available
User-defined policy feature is available only with the on-premise offering of IBM API Connect [Ref:
https://www.ibm.com/support/knowledgecenter/SSMNED_5.0.0/com.ibm.apic.policy.doc/capim_using_custpolicies.html]
3. Gateway Extensions when applied, changes are made to what servers
To Datapower Gateway servers . Again not available in IBM API Connect for IBM Cloud
[Ref:
https://www.ibm.com/support/knowledgecenter/SSMNED_5.0.0/com.ibm.apic.cmc.doc/connfig_dp_ext.html]
4. What is the main advantage of CLI over API Designer?
Automation & Scripting
5. What is the template to be used for throwing errors in XSLT policy?
 - a. Xslt-error
 - b. Apic-error
 - c. Apim-error
 - d. Xsl-apim-error
[Ref:
https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.policy.doc/rapim_imp_codesnip.html#rapim_imp_codesnip_end_with_error]
6. What is the relationships between Products, Plans and API?
7. Where can the subscription approvals be seen?
This request is displayed in the Approvals tab in the Catalog that contains the associated Product in API Manager, from where the request can be approved or declined.
[Ref:
https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.apionpre.m.doc/task_accessrequests_product.html]
8. How to change the status code from 200 to 501 for error in response payload
Using either XSLT policy or Gateway script
Example of XSLT policy

The following XSLT code block shows an example of how to configure the policy implementation to produce error information by calling the apim-error template.

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:apim="http://www.ibm.com/apimanagement">

  <!-- Contains the APIM functions -->
  <xsl:include href="local:///isp/policy/apim.custom.xsl" />

  <!-- Indicates this policy has a failure and provides
    additional information for the client application -->
  <xsl:template match="/">
    <xsl:call-template name="apim:error">
      <xsl:with-param name="httpCode" select="'401'" />
      <xsl:with-param name="httpReasonPhrase" select="'Unauthorized'" />
      <xsl:with-param name="errorMessage" select="'Please select a Plan'" />
    </xsl:call-template>
  </xsl:template>
</xsl:stylesheet>
```

Example of GatewayScript policy

If you are using GatewayScript, you must call the template:

```
apic.error(name, httpCode, httpReasonPhrase, message)
```

where:

- name is the name of the error.
- httpCode is the code of the required error message.
- httpReasonPhrase is the reason for the error.
- message is the suggested action for the user.

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.policy.doc/rapim_imp_codesnip.html#rapim_imp_codesnip_end_with_error]

9. What is the use of Developer Portal REST API

- Creating application
- Listing all server
- Rebooting failing servers

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.apirest.doc/dev_portal_apis.html]

10. To download Analytics of a Catalog & Provider organization what is minimum required?

You can alternatively obtain analytics data for a specific Catalog and API provider organization by using REST API calls to return JSON objects that contain the analytics data.

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.apionpre.m.doc/tapim_analytics_viewexportanalyticsdata.html]

11. Which policy is to be used for logging input/output payload?

Activity-Log policy (available only for Datapower Gateway)

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.toolkit.doc/rapim_cli_policies_activity.html]

12. Set-activity payload impacts what
- a. Logging preference in micro-gateway
 - b. Logging preference in datapower

...

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.toolkit.doc/rapim_cli_policies_activity.html]

13. On Developer portal product tab, what details are shown for a particular API operation?

- ✓ Any additional documentation available for you to read.
- ✓ If you need to provide a Client ID or Client Secret to access this API.
- ✓ The authentication requirements that are required to access the API.
- ✓ The operations or WSDL operations that belong to the API.
- ✓ Example code of an operation in specific language

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.devportal.doc/tapim_portal_browse_APIs.html]

14. An developer application is suspected to be performing suspicious activities or malfunctioning. What action can be taken for this?

Suspending Application.

Note: If an application is behaving suspiciously, exceeding rate limits, or has been compromised, you can block it from accessing your APIs. If a suspended application calls an API, the API gateway returns error code 403.

You might need to suspend an application for some of the following reasons:

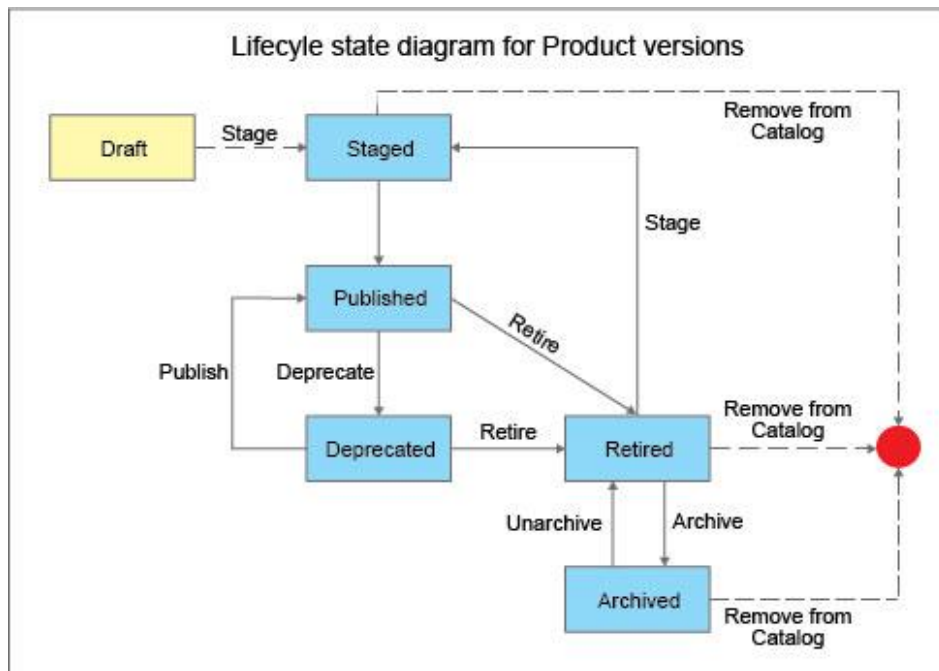
- ✓ ***The application is trying to maliciously hack your APIs.***
- ✓ ***You have soft rate limits enabled on your Plan and the application is consistently exceeding the quota.***
- ✓ ***You bill for API usage and the developer is in arrears or has not paid for previous usage.***
- ✓ ***You become aware that the client secret has been compromised and that the developer has not reset it.***

Roles Required to do this task: API Administrator, Product Manager, Organization Owner, Catalog Owner, Space Owner, Administrator

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.apionpre.m.doc/manage_dev_app.html]

15. What are the stages of product lifecycle



16. What are the Extension features / properties provide in API Connect for Open API definition

Testable
Enforced
CORS
Assembly
Lifecycle Phase (phase)
Properties

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.toolkit.doc/rapim_cli_swagger_extensions.html]

17. What property for API is to be enabled for testing from developer portal

Testable

18. For testing in API designer, API is to be hosted where

- DataPower
- MicroGateway
- DataPower & MicroGateway
- ...

19. Where to view the logs of developer portal for errors in web pages

/var/log/syslog

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.devportal.doc/rapim_portal_troubleshoot.html#rapim_portal_troubleshoot_usefullogs]

20. What feature is provided in Developer portal for testing API

- Try this operation
- Request Operation
- ..
- ..

21. API Connect with one local user registry can be used

- For one developer portal

- b. Access multiple developer portal
 - c. Access multiple developer portal if configured for cluster
 - d. ..
- 22. Admins want to replicate API Connect setup on multiple servers. How can it be done
 - a. VMware OVF
 - b. IBM Cloud manager
 - c. IBM Urban Cloud Deploy
 - d. ...
- 23. What is the command to create loopback using CLI
apic loopback
- 24. What is the purpose of remote connector in creating loopback projects
The remote connector enables you to use a LoopBack application as a data source via REST
[Ref: <https://loopback.io/doc/en/lb2/Remote-connector.html>]
- 25. Space ran out for storing Analytics, how to add more space
 - a. Add another internal disk
 - b. Resize
 - c. Delete the server and redeploy with more space
 - d. ..

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.install.doc/topic_add_new_data_disk.html]

- 26. User has changed the password after backup was taken. What is to be considered while restoring using the backup

Update the credentials using Cloud console.

Note: If you change your credentials in the future, you must know the correct login details when you restore the configuration. You might have to update the servers by using the API Connect cloud console. Otherwise, the cloud console cannot communicate with the servers.

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.overview.doc/overview_backupcli_apimgmt.html

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.overview.doc/overview_restore_apimgmt.html]

- 27. Gateway server was removed from management server. While adding it again to the management server, following error message was received – “Err adding load balancer for API calls”. What is the reason?

Management Server deleted and re-created without removing Gateway server

Note: this error can occur if the Management server for the cloud is deleted and re-created without first removing the Gateway server, that is, the Gateway server was not removed from the cloud.

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.cmc.doc/troubleshooting_loadbalance.html]

28. What is the component required when creating cluster of servers in API Connect cloud

NTP server

Note: If you are creating a cluster environment with multiple servers, you must have an NTP server. For more information on configuring an NTP server

Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.install.doc/overview_apimgmt_planning.html

29. Business user wants to view analytics in developer portal, which role is to be provided for it

Viewer

30. What is main difference between app developer and developer organization owner roles

Developer Organization Owner only can do , which **cannot be done by App developer**

- ✓ Invite other users to join the developer organization
- ✓ Change the developer organization name

31. How to create new developer organization

Under Community section of Catalog of API Management Console

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.apionprem.doc/task_apionprem_create_organization.html]

32. To apply burst limit, what gateway should be used?

Only for Datapower Gateway

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.toolkit.doc/tapim_define_plan.html]

33. How to install collective member

- a. Ova
- b. Scripting
- c. Public in npm**
- d. ...

Note: You can install the collective member in any of the following ways:

- ✓ From the public npm registry.
- ✓ From a locally hosted IBM API Connect server.
- ✓ From a locally downloaded .tgz file.

Pre-requisite: supported version of Node.js

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.install.doc/topic_install_collective.html#task_controller_host]

34. Open API supported file extension?

.yaml

35. Visibility of Product can be controlled using

- a. Catalog

b. Product

- c. API
- d. Plans

36. Analytics are downloaded in what format

Any analytics or API event data that you export is saved to a comma-separated values (CSV) file.

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.apionprem.doc/tapim_analytics_exportanalyticsdata.html]

37. What is the format of file for Datapower gateway extension

.zip

38. LTPA tokens can be created where

Use the Generate LTPA Token security policy in IBM® API Connect to generate a Lightweight Third Party Authentication (LTPA) token.

LTPA provides a cookie or binary security token based authentication mechanism in WebSphere® Application Server

Only for Datapower Gateway

[Ref:

https://www.ibm.com/support/knowledgecenter/en/SSMNED_5.0.0/com.ibm.apic.toolkit.doc/rapim_ref_oob_policyltpagen.html]

39. Organization are creating and using APIs. What type of organization are they?

Provider Organization

40. What flow to be used in OAuth to enable application to pass its cred and get access token

Application Flow