1. How many APIs you have created in overall Mule Experience. List down all the APIS. -- they wanted to know the count.

Ans: No of  API’s depends on your project -

2. Can you explain some RAML that you have developed -- they wanted actual business cases RAML.

Ans: Please explain a sample RAML which includes few methods, headers, examples, child RAML’s, datatypes and traits

3. How many APIs are running in production that you have developed.

Ans: I don’t have access to production, as we are part of offshore  team we have access till QA. Client will take care from UAT to production. If any functional issues we will get a request to fix any functional issues.

4. Explain AIG Mule implementation

Ans:At least two API’s should be thoroughly discuss along with exception handling and also API led connectivity. Details of target system which are used as part of system layer

5. Explain Macd Mule implementation

Ans:At least two API’s should be thoroughly discuss along with exception handling and also API led connectivity. Details of target system which are used as part of system layer

6. What new thing I did in AIG.

Ans : Any new connector, along with JSON we used XML, created CSV files and DWL functions.

Note: these are the few options when explaining it should sync with your project.

7. What thing I reused from MACD to AIG.

Ans: Exception handling - Global error handler, YAML/Property files

8. How did you manage your RAML dataTypes

Ans: Defined data Types in a separate RAML and imported in main RAML.

Note: it depends on the project implementation.

9. Development Best practices that you followed.

Ans : Used global properties for configuration values and RAML descriptions for better understanding to business users. Child RAML’s for Data Types and  examples.

Note: We will add few more points for developer perspective.

10. How many connectors that you used.

Ans : What are all the connectors you have a very good understanding related to the project.

Please refer to all the details of the connector tabs and advanced features. (DB, HTTP, VM, JMS)

Reconnection properties and usage

11. Have you used salesforce connectors?

Ans : No

12. How to use the VM connector

Ans : For intra/inter app communication, Publish-Consum (1:1 only), async communication and explain VM palates (Publish, Publish consume, Listener, Consume)

[Kulashree] Note: By default intra app communication is supported for on premise or on cloudhub . For inter app for on premise deployment as long as the applications are part of / using the same domain (domain project) the inter app communication is possible without additional / any new mule product. However,  in cloud hub the inter app is not supported by default. For this clustering is needed which whatever is known can be achieved using mule fabric.(Clustering is not supported in cloudhub,we need cloudhub fabric)

For reference : <https://docs.mulesoft.com/mule-runtime/4.2/mule-high-availability-ha-clusters>

<https://docs.mulesoft.com/runtime-manager/cloudhub-fabric> (this link also mentioned the how to persistent queue work in hybrid or cloud clustered model.)

Also the discussion which we had about “cloud hub domain” is little irrelevant here. As per my understanding now it is not applicable here.

13. Where did you deploy your code -- cloud, on-prem

Ans : as we have the access till QA, we are providing the build no along with properties need to be changed for next environment

14. on CloudHub, how to secure passwords.

Ans: By using a secret manager we can do it, As of now never used.

15 What is the MuleSoft4 version used in MACD and AIG

-- they wanted to know the exact major minor version like 4.2.1

Note: Please check the version of the project duration as part of your profile.

16. RAML properties for Oauth2.0

Note: Please refer the URL : <https://docs.mulesoft.com/api-manager/2.x/about-configure-api-for-oauth>

17. How to secure API, different ways

Ans:HTTPS, Oauth, Client-id and Client Secret, LDAP, Rolebased

1. You need to explain project in three layers in API Led Experience, Process and System layer

Ans:Need to explain how you followed API Led architecture in all your mule projects and how you interacted from one layer to another.

19. RAML and OAS

Ans:Both are API specifications only RAML is more user friendly and reusability is allowed

OAS - internally uses Swagger framework, reusability not allowed

We can convert from RAML vs OAS

20. What type of Patterns you followed in your project

Ans: Please refer the link for reliability patterns [https://docs.mulesoft.com/mule-runtime/4.3/reliability-patterns](https://meet.google.com/linkredirect?authuser=0&dest=https%3A%2F%2Fdocs.mulesoft.com%2Fmule-runtime%2F4.3%2Freliability-patterns)

Design Patterns - Broadcast pattern - Implement one way sync from one to many

Design Patterns - Idempotent Receiver - Design a receiver  that can safely receive the same message multiple times.

Design Patterns - Guaranteed Delivery - Design a messaging system flow that can persist messages.

<https://www.mulesoft.com/resources/esb/top-five-data-integration-patterns>

21. How we will deploy the applications in Mule

Ans: We can upload the jar to cloudhub and also we can deploy by using Mule EE distribution for on-prem. (for any additional questions - Operations team will take care if needed )

22. When you will use scatter-Gather and Choice routers in Mule

Ans: scatter-Gather for parallel processing accumulate the output

Choice router - for conditional based processing.

23. How do we use VM connector in Mule

Ans:Refer question no **12**

24. How to deploy the applications and usage of runtime

Ans:As part of our project till now we have deployed in on-prem using EE Distribution

In addition as per my theoretical knowledge these are different options for deployments <https://docs.mulesoft.com/runtime-manager/deployment-strategies#cloudhub-deployments>

25. How API Manager will use runtime manager

Ans: Runtime manager for deploying applications, API Manager is a gateway - can apply policies-rate limiting,  throttling, proxy for the actual application endpoint

auto discovery - to enable api manager to discover application deployed to runtime manager - need to configure auto discovery id in the application, no need to deploy separate application for api policies

26. How we will use object stores and implement in Mules

Ans: Object stores will use to persist the variables and for watermarking to avoid duplicate processing, it uses key value pair to store information, it also has TTL (Time to Live)

To cover up in depth on topics please refer the below link

[https://docs.mulesoft.com/object-store-connector/1.1/](https://meet.google.com/linkredirect?authuser=0&dest=https%3A%2F%2Fdocs.mulesoft.com%2Fobject-store-connector%2F1.1%2F)

https://help.mulesoft.com/s/article/The-Different-Types-of-Object-Stores-Explained

27. Proxy API's and how you apply Policies like rate limiting, throttling, Outh and Customer enforcement Identifications

Ans:API Manager is a gateway use to apply policies rate limiting,  throttling, proxy for the actual application endpoint

auto discovery - to enable api manager to discover application deployed to runtime manager - need to configure auto discovery id in the application, no need to deploy separate application for api policies

28. Error handling scopes on error continue, on error propagate and Global exception handling

Ans: On Error continue the application will respond usual response On Error Propagate - The application will stop processing and error will be propagated and error message will be sent as a response.

Please refer to the below link for all types of error handling in Mule.

<https://meetups.mulesoft.com/events/details/mulesoft-faridabad-presents-error-handling-in-mule-4x/>

29. How to handle security certificates in Mule

Ans: By using secret manager and need to provide the access to key store while publish/consume

Please refer the below link for design level configuration

[https://www.youtube.com/watch?v=&ab\_channel=sivathankamanee](https://www.youtube.com/watch?v=DAYn7NJWvMQ&ab_channel=sivathankamanee)

30. SLB and DLB concepts

Ans: shared load balancer in CloudHub resides outside the client's VPC

dedicated load balancer is not shared resource in CloudHub and resides inside the client's VPC

Please refer to the below link for more information.

<https://www.linkedin.com/pulse/shared-vs-dedicated-load-balancer-mulesoft-cloudhub-ravi-dhyani/?articleId=6616710290769829888>

31. How message enrichment will happen in Mule

Ans: **Without using Target variable** - By using DWL and (from different data sources as well we can enrich the data)

**With using Target variable -** Target variables also used for message enrichment to store enriched data

Please refer the below link for more information

[https://docs.mulesoft.com/mule-runtime/4.3/target-variables](https://meet.google.com/linkredirect?authuser=0&dest=https%3A%2F%2Fdocs.mulesoft.com%2Fmule-runtime%2F4.3%2Ftarget-variables)

32. How you will do encryption and decryption in Mule like converting payload to base 64 format

Ans: Default using DWL we can encrypt/ decrypt up to 4000 characters. if any additional requirements for extra characters we need to use Java code.

33. How you will apply global configurations and properties in Mule

Ans : Mule applications can use property placeholders to modify values

without needing to recode the Mule application

Properties files can be YAML format

The Runtime Manager Properties tab can override values set in

properties files

The Properties tab is available for both MuleSoft-hosted and

customer-hosted runtime plane targets

34. How we will scale up for performance

Ans : Vertical Scaling: Increasing the Worker size

Horizontal Scaling: Increasing Number of Workers

**Estimator Tool:** Based on inputs like Processor Types, Payload Size, Concurrent Requests, etc the estimator will suggest Number of Workers, Worker Size, Number of Applications (Custom-Hosted)

For detailed information on runtime fabric as an example, please refer to the below link

[https://docs.mulesoft.com/runtime-fabric/1.7/deploy-resource-allocatio](https://docs.mulesoft.com/runtime-fabric/1.7/deploy-resource-allocation)n

35. HLD, LLD and Mapping sheets Generic question

Ans : Need to explain related to your project documents

36. How you will troubleshoot of applications - Generic question

Ans : By checking insight logs in runtime manager and also by using visualizer we can view application networks are going to impact particular issues.

37. How you will log message and external logging how useful

Ans :By using a log connector we will be able to log the messages and payload. insight logs by correlation-id we can view the application level logs and logs tab we can view the system logs. These logs will be available 30 days/100MB

For External logging we can use Splunk or ELK - Please refer the below link for related to external logging and configuration

<https://docs.mulesoft.com/runtime-manager/sending-data-from-arm-to-external-analytics-software>

<https://dzone.com/articles/enable-custom-logging-for-mulesoft-application-usi>

38. What points you consider before start your mule project

Ans : Design Level documents, user stories, timelines, product version, Project templates and any third party applications/services access

39. How Mulesoft is different from other products in performance

Ans : Mule follows efficient JVM management,

like if you want to compare with other ESB product (TIBCO) transactional data carried throughout the flow/ application but in Mule payload will be available to the next activity only.

Xpath operates on XML data type for large data set is in-efficient by using TIBCO, but in Mule DWL can support it as works on Objects and its efficient approach.

40. HTTP Status code categories ( Resource creation - when will resource get created?)

Ans: 1xx Informational, 2xx Success,3xx Redirection,[4xx Client Error](https://www.restapitutorial.com/httpstatuscodes.html),[5xx Server Error](https://www.restapitutorial.com/httpstatuscodes.html)

Please refer the below link for detailed information for codes:

<https://www.restapitutorial.com/httpstatuscodes.html>

**Resource creation - For each and every method resource will be created.**

41. Restful vs SOAP

Ans: Refer the below link for detailed information:

<https://www.guru99.com/comparison-between-web-services.html#:~:text=SOAP%20stands%20for%20Simple%20Object,REST%20is%20an%20architectural%20pattern.&text=SOAP%20only%20works%20with%20XML,can%20make%20use%20of%20SOAP>

~~40. Can you explain to me about RAML?~~

42. What is the use of a Design center?

Ans : Design Center uses to create API Specifications and Sample Mule flows for to create API templates

Business Team need not to use any installed studio rather they will use a design center.

43. What is the use of Exchange?

Ans : Exchange will be used for central repository for all API’s and manages which API’s Internal/ External

44. I want to consume all requests without any restriction, How will you design RAML for this (API KIT Router use)

Ans : How the path is defined in endpoint like “**/api/\***” The API Kit Router will route based on event which flow need to trigger.

45. Have you worked on API monitoring?

Ans: API monitoring will be used to monitor the API’s in graphical view of inbound, outbound traffic, Performance monitoring, failures, JVM and infrastructure usage, We can create threshold Alerts and get notified.

Please refer the below links :

<https://www.youtube.com/watch?v=GLP2lBAVOgs>

<https://www.youtube.com/watch?v=e-Gj76m0sZg&t=12s&ab_channel=TechLightning>

46. What are the different types of methods you use in the project?

Ans:  Get,Post,Put,Patch,Delete

47. PUT vs PATCH

Ans: PUT will update the total object whereas Patch will update elements in the object and also we can add new elements as part of Patch.

Please refer to the link below for more information..

<https://rapidapi.com/blog/put-vs-patch/>

48. How are you able to see logs of Mule in SPLUNK?

Ans: Please configure SPLUNK in your local and try to test it how we can see the logs, for configuration and testing more details in the link below. <https://apisero.com/recipe-to-implement-splunk-enterprise-on-premise-for-mulesoft-application-using-anypoint-studio-and-anypoint-platform-runtime-manager/>

49. How will you deploy a project?

Ans: Please try to deploy in cloud hub, and using EE-Distribution to deploy on-prem, how it works. Also please try to configure whatever you deployed in on-prem configure to Anypoint Platform how we can monitor on-prem applications in Anypoint Platform (Habrid)

Please refer to the below link for more information

<https://apisero.com/setup-mule-standalone-runtime-locally-and-reploy-application/>

50. SLA based rate limiting vs client based rate limiting

Ans : SLA based is for each tier, rate limiting and throttling is for  all consumers.

Rate limit/throttling for 5 requests/min means all consumers together can send 5 only. SLA based 5request/min - each consumer in that tier can send 5

throttling will retry one more time before rejecting requests.

**Please try to implement all the scenarios and test it, how it works for your API.**

~~51. What is the use of RAML~~  
51. Without RAML can we design MuleProject?

Ans. Yes, We can design the project by using flow designer/Anypoint Studio.  
52. Domain Projects

Ans. Domain Projects are used to share the common resources/Connections. Domain Projects will be used only on-Prem, Allow deployment of multiple Mule applications and domain to the same Mule runtime.

Please refer to the links below for more information.

<https://apisero.com/implementing-and-deploying-the-domain-project-with-mulesoft/>

<https://docs.mulesoft.com/mule-runtime/4.3/shared-resources>

~~53. What points you consider before start your mule project~~54. Can you give one use case which is not suitable for MuleSoft

Ans : Stateful processing is not possible, BPM is also not possible in Mule.

Support for legacy systems like File-based are limited - Record level processing is also not possible for file based processing.   
~~55. How Mulesoft is different from other products in performance~~  
~~56. ObjectStore advantages~~

~~57. Policies used~~  
58. CloudHub to Runtime Manager Connectivity

Ans: if it is a On-Prem runtime manager Hybrid deployment, please refer **Q&A 49**.   
~~59. Deployment on shared/dedicated load balancer~~  
60. Encrypt/Decrypt using Mule & Java

Ans: For custom Encryption/Decryption we will always use Custom Java code to implement, by default Mule provides few patterns like   
“Symmetric encryption/decryption of messages”

“Asymmetric encryption/decryption of messages”

“Sign and validate a message” Please refer to the below link for more details.

<https://www.whishworks.com/blog/mulesoft/mule-cryptocraphy-module-jce-strategy>

~~61. How to scale the API's (If horizontal, give me the no of worker details)~~

1. ~~Quick intro (Profile)~~
2. ~~Project Explanation~~
3. API-LED Connectivity approach

Ans : Please explain Experience/Process/System Layers how you implement in your project and how it impacts

1. ~~What are the connectors did you use in Mule4?~~
2. ~~Did you implement securing connections data using Encryption?~~(Refer 104)
3. ~~API Manager policies~~
4. CI/CD Jenkins, Git

Ans: Please configure GIT and Jenkins in your local and test how it works.

Please refer to the below link for more information.

<http://workshop.tools.mulesoft.com/modules/module7_lab4>

1. Mule – Salesforce integration : Create, Query

Ans : As part of my project Salesforce integration is not there, conceptually as part of training I know the basic knowledge about salesforce.

Please try to implement the same training walkthrough, and also please refer to the below link for more details.

<https://www.mulesoft.com/exchange/com.mulesoft.connectors/mule-salesforce-connector/>

1. MULE – AWS integration

Ans : As part of AWS integration we used SQS, S3 objects to process bulk file based data. ( Airline Management)

Please try to implement AWS configurations and usage in one of your projects for bulk file based processing. ( Refer Airline Management Project for more information) bitbucket location - “<https://bitbucket.org/enique/am-daily-flights-trigger/src/develop/>”

1. Mule – Confluent integration

Ans: As part of data stream processing used Confluent integration, Please refer to the below link for more details and configurations.

<http://dejim.com/connect-to-confluent-cloud-with-the-mulesoft-kafka-connector-mule-4/>

1. Kafka data orchestrations

Ans : Who are using Airline Management project, Please go through Kafka topics and implementation

1. How will you switch DB across different environments?

Ans: By changing DB configurations in mule domain project configuration properties file for on-prem. Next environment configuration properties “.yaml/.properties” should change for cloudhub.

1. API Testing

Ans : Munit - mock - Please go through with mule documentation for concepts for better understanding and also create sample Munit cases for your API’s and verify.

Please refer to the below video for more details..

<https://www.youtube.com/watch?v=6YbgGDpvV3M>

Other tools we can use SOAP UI, Postman, ARC

1. Can you briefly explain about Batch processing?

Ans : How you implemented batch processing in your application, how we used batch job, batch steps and aggregations.

Please refer to the below video for more understanding..

<https://www.youtube.com/watch?v=M1hmoJzPNYE&t=3684s>

1. ~~DWL functions~~
2. RAML validations

Ans : Explain field level validations how you implemented while creating RAML Like (Min/Max Length, Integer, String)

1. HTTPS configurations – Key store and trust store

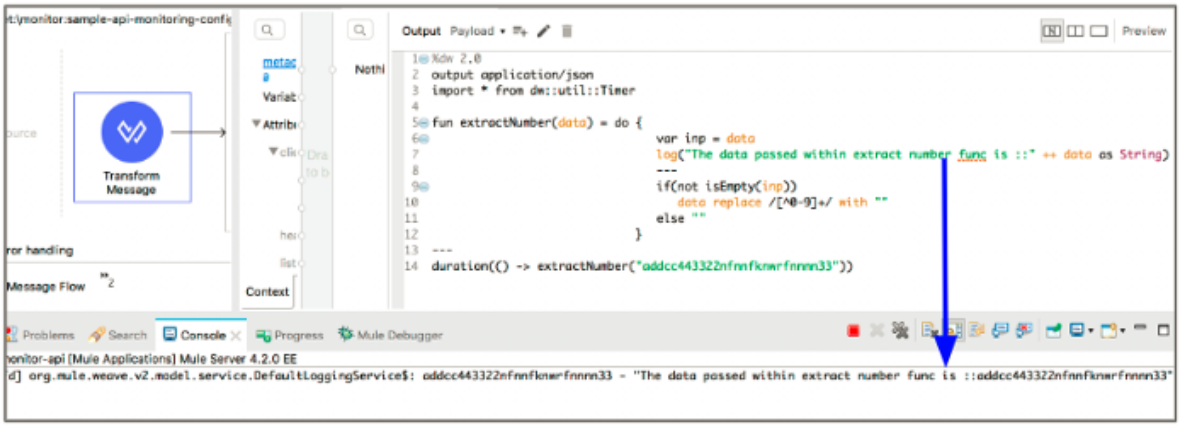
Ans :

1. Oauth 2.0
2. CORS
3. Explain AIG project.
4. Team Size, Who manages RAML specification,
5. Define your role in the current project.
6. What is the name of the topic that you are using in AIG to pass data from experience API to process API.
7. Describe AIG payload that you communicated between Experience API and Process API.
8. How API Led Connectivity can reduce point to point communication.
9. What is the lookup table in MuleSoft?
10. Define data synchronization patterns and what patterns that I used.
11. Scenario -- Let's say I have two databases and want a processing which will synchronize changes in one DB to another.
12. When we prefer Pub-sub over web service.
13. ~~What is a dataweave?~~
14. Have you worked on projects following Scrum?
15. Scenario 1: Suppose, we have two Systems A & B. You need to pass data from System A to System B. If System A is down, How will you pass data to System B?

Ans: [KP] : Data at rest if that has to be shared can be done using Object store (persistent mode). We need to check the configurations and details from Documentations

[KP] : If data is to be shared at the receiver level / transport layer, we can mention persistence at JMS layer

1. Scenario 2:  Suppose, we have two Systems A & B. There is some Transformation failure/crash. How will you Identify this?

Ans: [KP] 

So mainly logging the input / output / scripts would help to identify the issue.

Specific error handling. Like defining the error type (any specific errors for DWL) and then handling it accordingly

Apart from logging mule mentioned that the mule documentation mentions :

In Mule 4.2.1, DataWeave introduced an experimental feature that enables you to dump the input context and the failing script into a folder so that you can track the failing script along with the data that makes the script fail. This tool is particularly useful for checking that received input data is valid because incorrect scripts often fail when an upstream component generates invalid data

<https://docs.mulesoft.com/mule-runtime/4.3/dataweave-troubleshoot>  (however the support of on prim / cloudhub we are not sure)

1. Scenario 3:  Suppose, we have two Systems A & B deployed. All loggers are in INFO mode. Can we change them to DEBUG mode and the Design behind that?

Ans: [ KP]: Use logger "Category". And the mode can be changed from Runtime Manager anytime without application restart.

<https://medium.com/the-mule-blog/guidelines-on-mulesoft-logging-alerting-visualizer-monitoring-b2a1bcf25b39>

1. Scenario 4: How will you pass data from Salesforce to Sharepoint? Which approach will you be following RestFul/Exchange modules
2. Scenario 5:  Suppose, we have two Systems A & B. You need to pass data from System A to System B. How will you design this? END-TO-END
3. You have no idea about fields, which you need to develop. What will you do?
4. You observed delivery will be postponed for sure. What will you do?
5. Git operations
6. Jenkins CI/CD pipelines
7. Hybrid deployment
8. how you define resource type and which methods are defined as part of it.

Ans: Resource type also is a collection of methods which we can reuse the same methods while specifying endpoints.

Please refer to the below link for more details.

<https://dzone.com/articles/understanding-resourcetypes-and-traits-with-raml>

1. What is the difference between Traits vs Resource type

Ans: Resource Type is used to extract patterns from a resource definitions(Ex. /user, /user/{id}), while a Trait is used to extract patterns from method(GET, POST, DELETE, PUT) definitions that are common across resources.

Resource Type we can define methods but in Traits we cannot define methods

Please refer the below link for more details

<https://www.baeldung.com/simple-raml-with-resource-types-and-traits>

<https://dzone.com/articles/understanding-resourcetypes-and-traits-with-raml>

1. How to secure passwords/Configurations in On-prem and Cloud

Ans: You can encrypt configuration properties as another security level for your applications. To create secure configuration properties, Define secure properties in the file by enclosing the encrypted values between the sequence ![value]. Configure the file in the project with the Mule Secure Configuration Properties Extension module. The file must point to or include the decryption key

Please refer the below link for more details

<https://docs.mulesoft.com/mule-runtime/4.3/secure-configuration-properties#secure-configuration-properties-use-cases>

1. Active MQ connection Configuration and usage in your project

Ans: By using JMS connector we can connect to Active MQ, Please explain in your flow how you Publish/ Subscribe MQ messages.

Please refer to the below link for more details

<https://docs.mulesoft.com/jms-connector/1.7/jms-activemq-configuration>

1. Batch processing and how you managed if it fails

Ans: Depends on the payload size need to configure the batch size, for failures we did retry mechanism

Please refer the below links for details

<https://docs.mulesoft.com/mule-runtime/4.3/batch-processing-concept>

<https://docs.mulesoft.com/mule-runtime/4.3/batch-error-handling-faq>

1. DWL Functions used in your project

Ans: Please explain what are all DWL functions/ Custom Functions used in your application. In which scenario you have used the DWL functions in your project which you have explained.

Please refer to the below links for more details

<https://docs.mulesoft.com/mule-runtime/4.3/dataweave-functions-lambdas>

<https://dzone.com/articles/mule-39-dataweave-10-filter-contains-map-operators>

109. Various scopes that are used in your project.

110. Explain about Until successfully and in which scenario it is used in your    project

111. RAML standards that are followed while creating an API Specification.

112. Standards followed in the project during code implementation.

113. In which state your client is located.

114. On which Mule version you have worked

Note: Mule 4.3 version which we are currently exploring is released in April 2020, Make sure that you see the Mule version release date to explain the version that you have worked on, Based on your project timelines.

115. There is a legacy .net system who wants to consume your api as soap over HTTP, How this can be achieved

Ans: Get a sample WSDL from online and try creating a soap webservice in mule.

116. Difference between map and mapobject in DWL

117. Using DWL how to convert object to array and array to object

118. How to use Stored Procedures in Mule

119. Difference between Flow and subflow

120. What is RaiseError, In which scenarios it is been used

121. What is XSLT

122. How to use an existing Java code in Mule.

 Ans: Please Go through the Link below

https://docs.mulesoft.com/java-module/1.2

123. How can we do basic authentication without OAUTH.

 Ans: Please go through the links below

<https://help.mulesoft.com/s/article/Tutorial-how-to-create-a-simple-Mule-4-http-basic-authentication-application>

https://blog.vsoftconsulting.com/blog/step-by-step-process-to-enable-basic-authentication-in-mule-4-using-https#:~:text=Step%202%3A%20Run%20Anypoint%20Studio,Spring%20module%20with%20basic%20authentication.

124. Explain about Threadpool

Ans : Please go through the below link : <https://dzone.com/articles/mule4-thread-management-amp-self-tuning-runtime>

125. Explain about Connection pool

126. Do you aware about CPU LIte and CPU Intensity

127. Do you know about blocking IO and Non blocking IO

128. How Can you expose SOAP Services in mule

 Ans: Please Go through the Link below

<https://docs.mulesoft.com/apikit/4.x/apikit-4-for-soap>

**Shell interview questions asked** (*this should be treated just a reference and not rely limiting to only these)*:

How do you get your requirements? and how does interaction happen within the team?

Explain about current project

API-led connectivity

Connectors used in the current project

Which policies are applied in current project

How are you deploying the project?

How do you deploy the project in a higher environment server?

What data are you providing for the respected team for deployment?

Thread.

What is Error on in mule?

DWL functions - map, mapObject, groupBy

Keyword to use traits

How are you designing your RAML in your current project?

Are you using any common-handlers in your current project

-----------------------------------------------------------------------------------------------

Today's interview questions are:

1. About previous experience and current project.

2. API-led connectivity

3. Which connectors and policies have you used in your project?

4. Async and Until Successful scope

5. Difference between scatter gather and choice router

6. If there are 2 true conditions in the choice router then how the mule event will process.

7. How do you create RAML?

8. If we are using basic authentication then how do you keep id and password in properties file?(after encryption with secure properties tool)

9. How do you do negative testing?

10. Which DWL functions have you used in your current project?

11. If you are getting an error then which approach do you use to solve it?

-------------------------------------------------------------------------------------------------

1.       Mule runtime Version

2.       Endpoint-based connectors.

3.       What all are there in any point platform.

4.       What we do in API manager

5.       What we do in the Visualizer

6.       What are the policies available in mule and what policy have you

          applied in your project?

7.       What is Vertical Scaling

8.       How much Vcore is required to deploy a single application in cloudhub.

9.       What are the different connectors are there in any point studio and what

          you have used in your project.

10.   What are the different Environments?

11.   What are the DWL’s used in your Project.

12.   What are VM Connector and JMS Connector? Difference between them.

--------------------------------------------------------------------------------------------------------How do you deploy RAML changes with zero downtime?

* Patterns followed for Asynchronous strategy
* How will you implement Transform message if there is huge payload
* Can we add Code variables in the Properties tab of Platform?
* Use of Asset Id
* I have got 50 query parameters. How do you implement and limitations
* How do you deploy applications with Zero down time?
* What are the policies you used on Platform?
* How will you implement policies locally?
* Asynchronous flows don't return anything to Other end system. What approach did you follow then?
* Oauth implementation
* Where do Client Id and secret get stored?
* HTTP codes and URL length limit
* Anypoint Service Mesh
* Deployment and pipelines

**List of Technical Topics to be prepared before Shell’s interview as they are used in Shell**

--Deployment

CloudHub

RTF

--Api led connectivity

--Restful approach for RAML creation.

All RAML concepts.

--Connectors

HTTP

Web Service Consume

Workday

Anypoint MQ

Salesforce

VM

DB

SFTP

--Mule Pallets

Object store.

Retry mechanism,

Try Catch

Error Handling

--Security concepts

One way SSL

Two way SSL

key store and trust store

--Policies

Client Id enforcement

JWT token/OAuth2.0

--Best practices.

using secure properties

encrypting password

naming conventions

POM file configurations for deployments on RTF/CloudHub