

## Session3 Assignment

Session 3 :  
Oct 17th - 2020:

Task for the day:

Create a RESTful application and deploy in cloud hub  
where resource name : /test

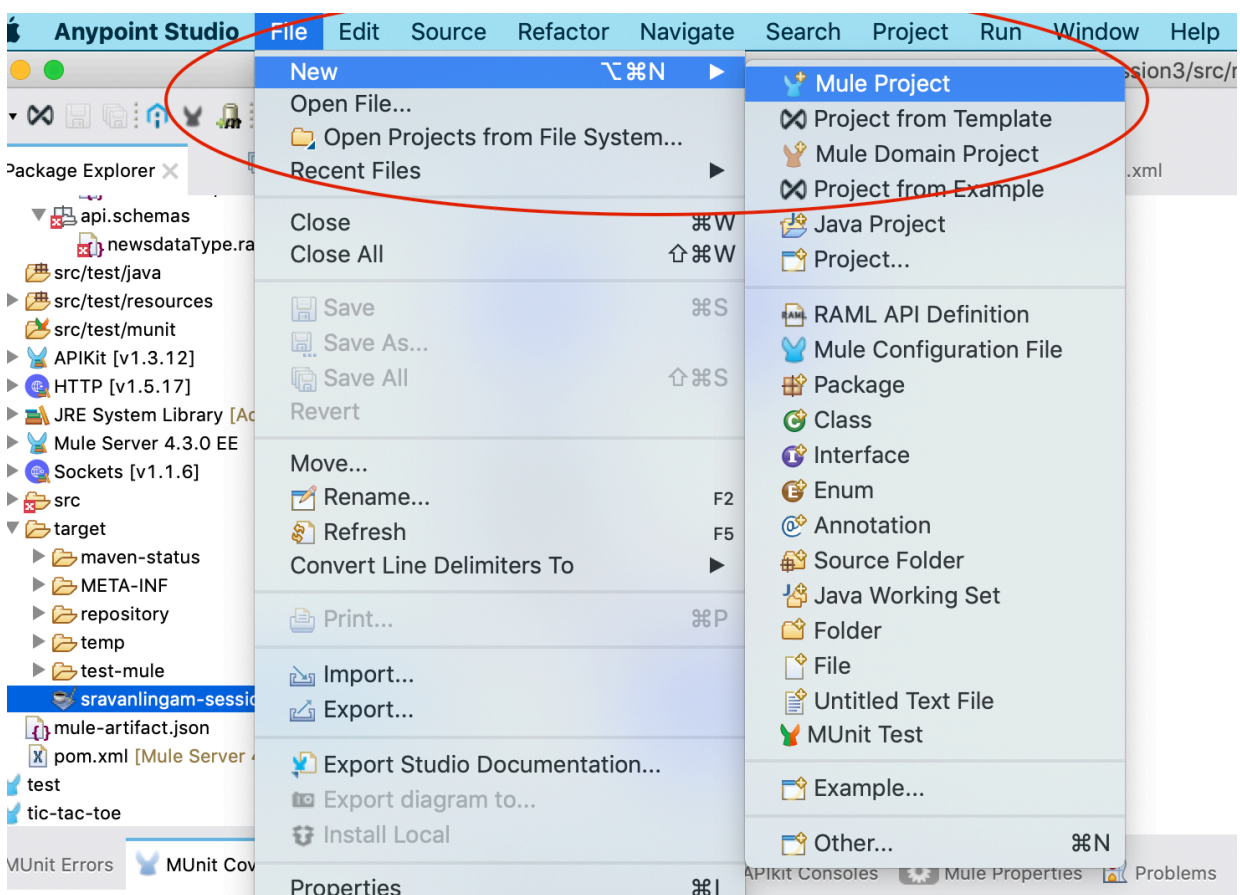
<http://<cloudhubapp url>/test>

I need final output as something like this:

Hello Mule World , The application is created by “your name”

### Steps :

- 1) **Download Anypoint Studio from : <https://www.mulesoft.com/lp/dl/studio> .**  
If using Windows, download and extract zip file. You can see anypoint studio icon (.exe file) . Click to open. Select default workspace and start coding.
- 2) Download POSTMAN : <https://www.postman.com/downloads/>
- 3) **Create Anypoint platform account : [anypoint.mulesoft.com](https://anypoint.mulesoft.com)**
- 4) **Open Studio → File → New → Mule Project**



## Session3 Assignment

Enter Project Name and click finish:

**New Mule Project**

**Project Settings**  
Create a Mule project in the workspace or in an external location.

Project Name:

**Runtime**  
Mule Server 4.3.0 EE  
[Install Runtimes](#)

**API Implementation**  
Add an API implementation to your project to automatically set up an APIkit router and create placeholder flows for each resource method

Import a published API | Import RAML from local file | Import from Design Center

*i* Import both OAS and RAML specifications here [Learn more](#)

Name	Version
Please select or add a dependency to see more information.	

Scaffold flows from these API specifications

**Project location**  
 Use default location  
Location:

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4) Create a flow and Drag and Drop HTTP Listener and configure it as below:

The screenshot displays the MuleSoft Studio interface. On the left, a message flow diagram for 'sraavalingaam-session3Flow' shows a 'Listener' component. The main workspace shows the configuration for the selected 'Listener' component. A red circle highlights the 'Connector configuration' dropdown menu, which is currently set to 'HTTP'. Another red circle highlights the 'Path' field, which is set to '/test'. Below the main workspace, the 'Global Element Properties' dialog is open, showing the configuration for an 'HTTP Listener config'. The 'Name' field is set to 'HTTP\_Listener\_config'. The 'Connection' section is expanded, and a red circle highlights the 'Protocol' dropdown menu, which is set to 'HTTP (Default)'. The 'Host' field is set to 'All Interfaces [0.0.0.0] (default)' and the 'Port' field is set to '8081'. The 'General' section shows the 'Base path' field is empty and the 'Listener interceptors' dropdown is set to 'None'. At the bottom of the dialog, there are buttons for 'Test Connection...', 'Cancel', and 'OK'.

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5) Drag and Drop Set-Payload and set the value as below. (replace with your name)

The screenshot shows the MuleSoft Studio interface. On the left, a message flow diagram for 'sraavalingaam-session3Flow' is visible, featuring a 'Listener' module connected to a 'Set Payload' module. The 'Set Payload' module is highlighted with a red circle. Below the diagram, the 'Settings' tab for the 'Set Payload' module is open. The 'Value' field is set to `#[ "Hello Mule World. This is Sravan Lingam" ]`, with the 'fx' icon circled in red. The right sidebar shows a list of modules including 'Add I', 'Favori', 'Core', 'HTTP', and 'Sock'.

6) Now right click on canvas and select run application.

Remember : 8081 might not work in few systems and you might get deployment fail. That doesn't matter if you deploy in cloudhub. You can still use the jar file to deploy in cloudhub. If you want to test on local , set to some other value, but before deploying to cloud, use 8081 and click "Run" again and then deploy

The screenshot shows the MuleSoft Studio interface with the 'Run project sraavalingaam-session3' option highlighted in the context menu. The context menu is open over the message flow diagram, and the 'Run project sraavalingaam-session3' option is circled in red. Other options in the menu include 'Debug project sraavalingaam-session3', 'Undo Apply changes to Set Payload', 'Redo', 'Go To XML...', 'Delete', 'Collapse All', and 'Expand All'.

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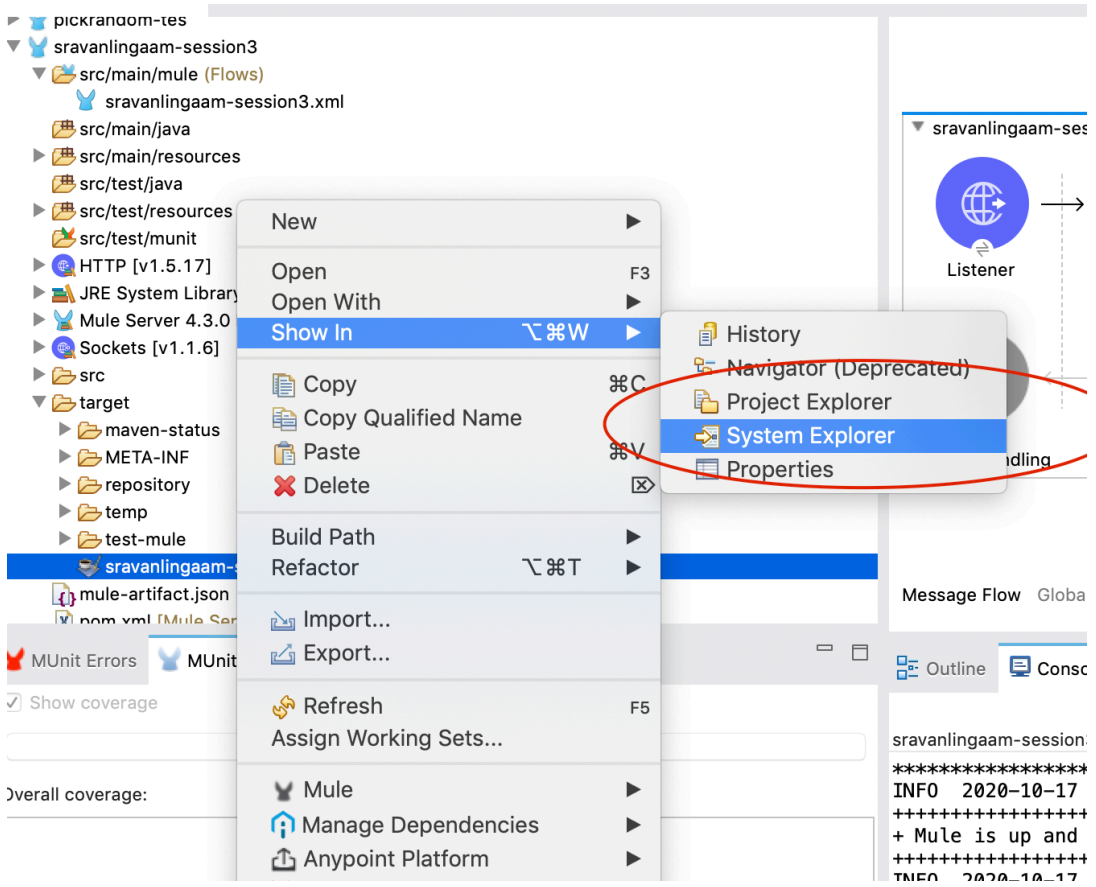
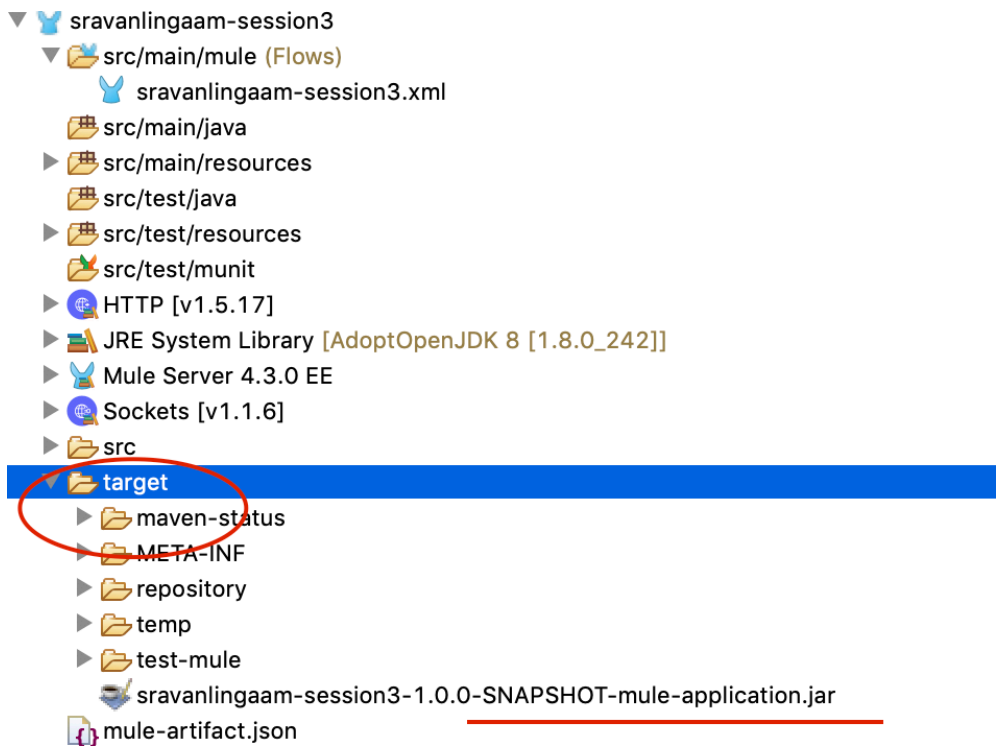
7) See if application is in Deployed Status ( for port issues ignore if it is failing)

The screenshot displays the Mule Studio interface. At the top, a message flow diagram for 'sraanlingaam-session3Flow' is visible, featuring a 'Listener' component connected to a 'Set Payload' component, with an 'Error handling' section below. The 'Console' tab is active, showing the following log output:

```
sraanlingaam-session3 [Mule Applications] Mule Server 4.3.0 EE
*****
INFO 2020-10-17 19:52:30,771 [WrapperListener_start_runner] org.mule.runtime.core.internal.logging.LogUtil:
*****
+ Mule is up and kicking (every 5000ms) +
*****
INFO 2020-10-17 19:52:30,784 [WrapperListener_start_runner] org.eclipse.jetty.server.AbstractConnector: Start
INFO 2020-10-17 19:52:30,787 [WrapperListener_start_runner] org.mule.runtime.core.internal.logging.LogUtil:
*****
* - - + DOMAIN + - - * - - + STATUS + - - *
*****
* default * DEPLOYED *
*****
*****
* - - + APPLICATION + - - * - - + DOMAIN + - - * - - + STATUS + - - *
*****
* sraanlingaam-session3 * default * DEPLOYED *
*****
```

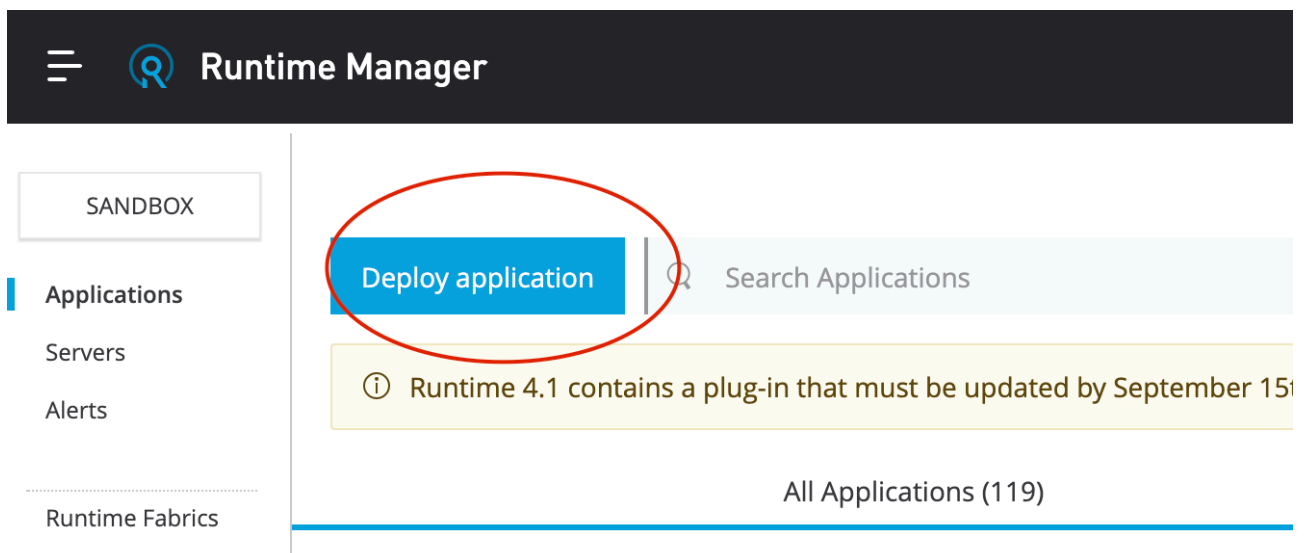
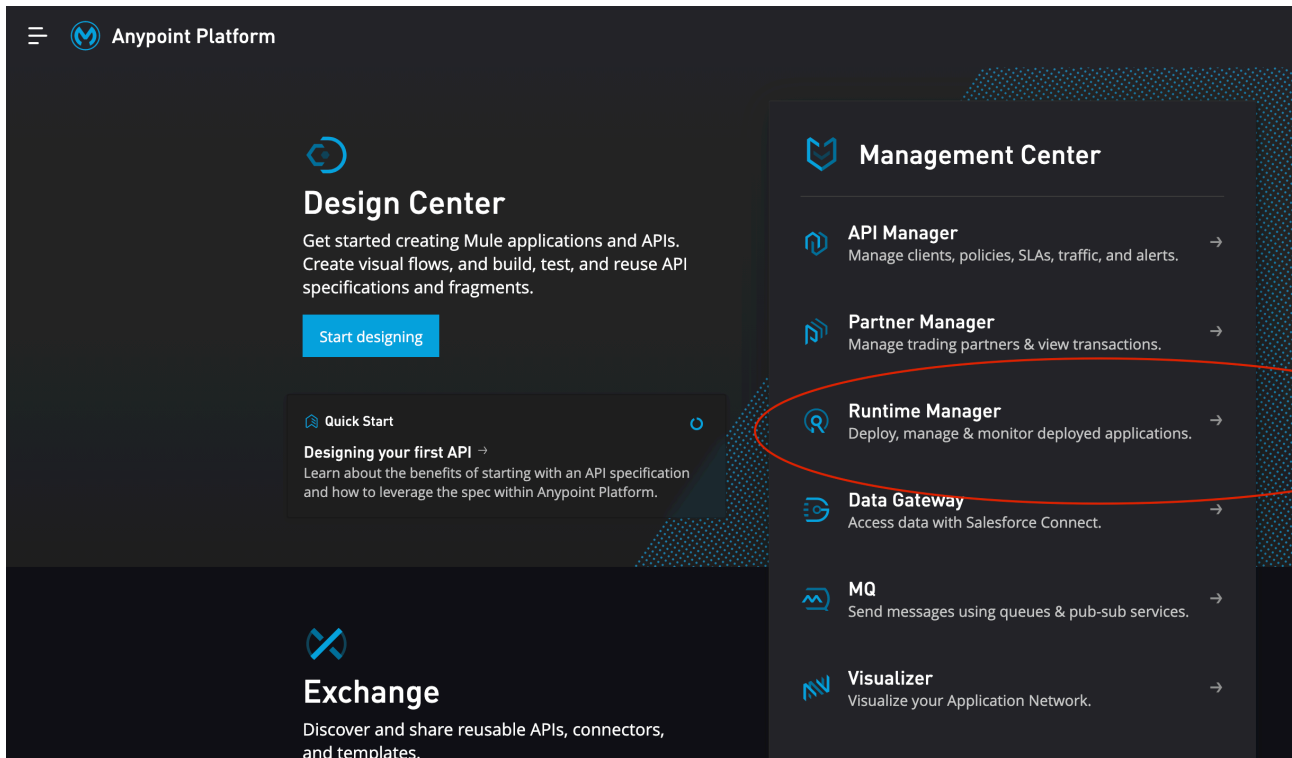
A red circle highlights the 'Console' tab in the interface, and a red oval highlights the 'DEPLOYED' status in the console output.

**8) Copy the path of Jar file generated in target folder and keep it handy  
Refresh target folder to see jar file generated**



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9) Go go Anypoint platform. Click Runtime Manager. Choose environment (any) . Click on Deploy Application and give Name, and choose jar file form local (watch youtube video)



# Session3 Assignment

**Runtime Manager** | VirtusaLab

**SANDBOX** | Deploy Application

Application Name:

Deployment Target:

Application File:

Runtime version:  Worker size:  Workers:

Region:

Automatically restart application when not responding  
 Persistent queues |  Encrypt persistent queues  
 Use Object Store v2

**Finally click on Deploy. Now you can see app is started with green icon**

**SANDBOX** | ● sravanlingam-session3-demo | Live Console

Applications

Dashboard

Insight

Logs

Object Store

Queues

Schedules

Settings

① Logs are kept for 30 days or up to 100 MB

Search

Time	Date	Worker	ID	Message
18:04:13.282	10/17/2020	Worker-0	qtp2000303116-39	INFO Starting Bean: org.mule.runtime.module.extension.internal.runtime.config.ConfigurationProviderToolingA
18:04:13.359	10/17/2020	Worker-0	qtp2000303116-39	INFO Starting flow: sravanlingam-session3Flow
18:04:13.761	10/17/2020	Worker-0	qtp2000303116-39	INFO Starting flow: sravanlingam-session3Flow1
18:04:13.769	10/17/2020	Worker-0	qtp2000303116-39	INFO Starting Bean: listener
18:04:13.770	10/17/2020	Worker-0	qtp2000303116-39	INFO Starting Bean: listener
18:04:13.779	10/17/2020	Worker-0	qtp2000303116-39	INFO
***** * Application: sravanlingam-session3-demo * * OS encoding: UTF-8, Mule encoding: UTF-8 * * * *****				
18:04:13.902	10/17/2020	Deployment	system	SYSTEM Worker(54.234.30.128): Your application has started successfully.
18:04:15.040	10/17/2020	Deployment	system	SYSTEM Your application is started.



## Session3 Assignment

Frame URL :

**http ://<App url> / test**

**App url = Go to Settings—>App url**

The screenshot shows the CloudHub interface for a sandbox application. On the left is a navigation menu with 'Settings' circled in red. The main content area shows the application name 'sravanlingam-session3-demo' and its configuration details. The 'Application File' section includes a text input with the filename 'sravanlingam-session3-1.0.0-SNAPSHOT-mul...', a 'Choose file' button, and a 'Get from sandbox' button. Below this, the 'Last Updated' timestamp is '2020-10-17 6:04:13PM' and the 'App url' is 'sravanlingam-session3-demo.us-e1.cloudhub.io'. A tabbed interface at the bottom shows 'Runtime' selected, displaying 'Runtime version' as '4.3.0' and 'Worker size' as '0.1 vCores'. A note indicates that monitoring and visualizer may require enabling the agent after deployment. The 'Region' is set to 'US East (N. Virginia)'.

Runtime	Properties	Insight
Runtime version	Worker size	
4.3.0	0.1 vCores	
To use Monitoring and Visualizer with this version, you may need to enable the agent after deploying. <a href="#">Learn how</a>		
Region		
US East (N. Virginia)		

**Eg : <http://sravanlingam-session3-demo.us-e1.cloudhub.io/test>**

**Go to Postman : hit it and see the response.**

**Share me the cloudhub URL**