SPRINT-2

Team ID	PNT2022TMID19466
Project Title	Smart Farmer – IoT enabled Smart Farming Application
Date	17-11-2022

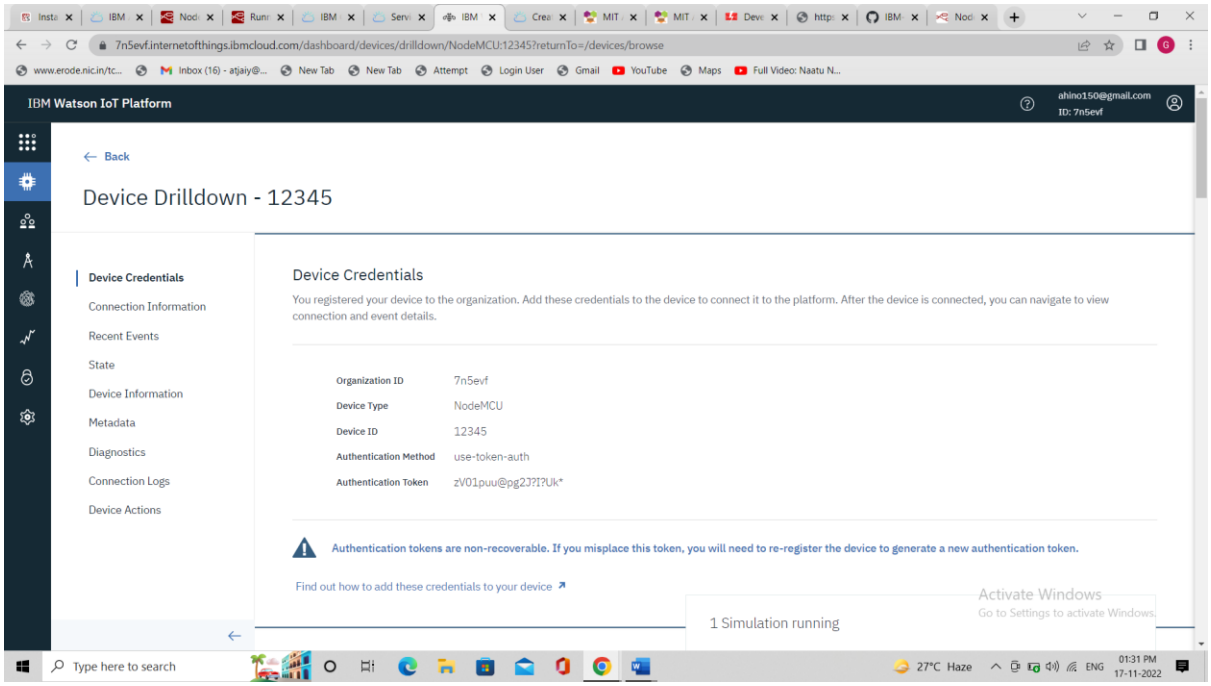
Steps to create an IBM Watson IOT service:

- Click on catalog in IBM cloud account.
- Click on services.
- Enter as Internet of thing platform.
- Enter region and pricing plan.
- Enter service name and click create.
- Click on launch.
- Then IBM Watson OT platform opens.
- Click on sign in. Enter IBM Id.
- Enter Password.
- Then you can access IBM Watson IOT platform.

Steps to create a device:

- Click on devices in IBM Watson IOT platform.
- Choose to create a device.
- Enter the device type as Node MCU.
- Enter the device ID as 12345.
- Click next.
- Enter device credentials (optional).
- Click next.
- Enter the authentication token (optional).
- Click on continue.
- Click on next.
- Click finish.

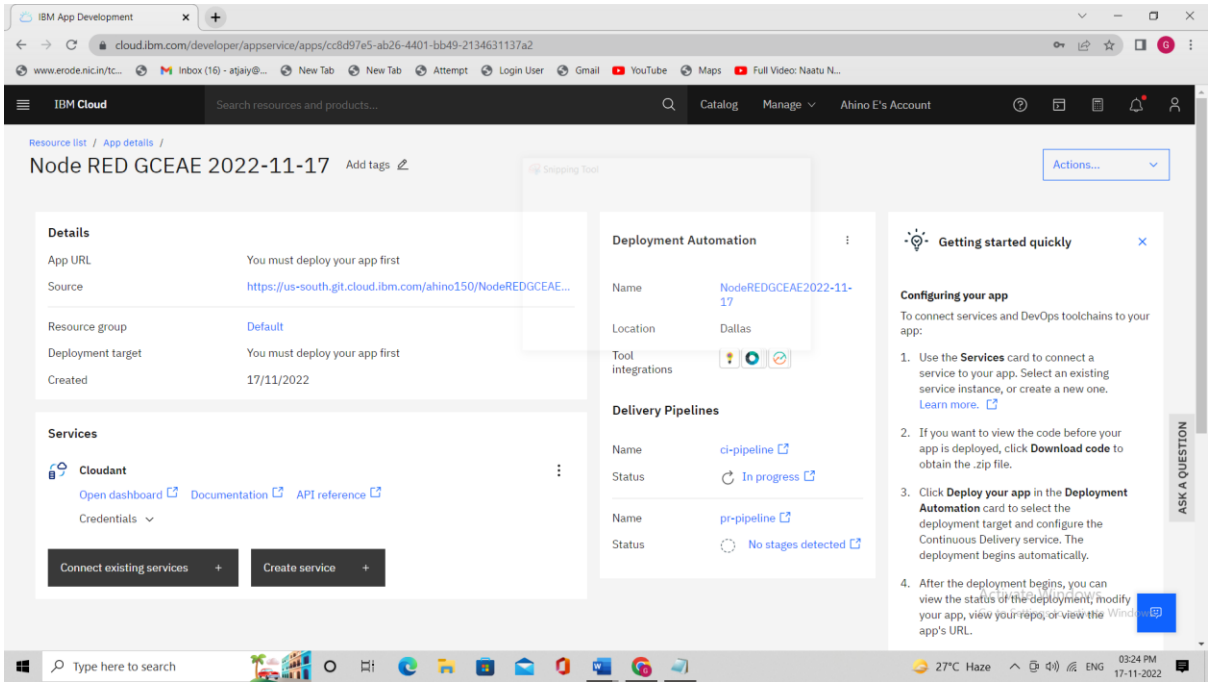
Device is created successfully, and we can see device credentials.

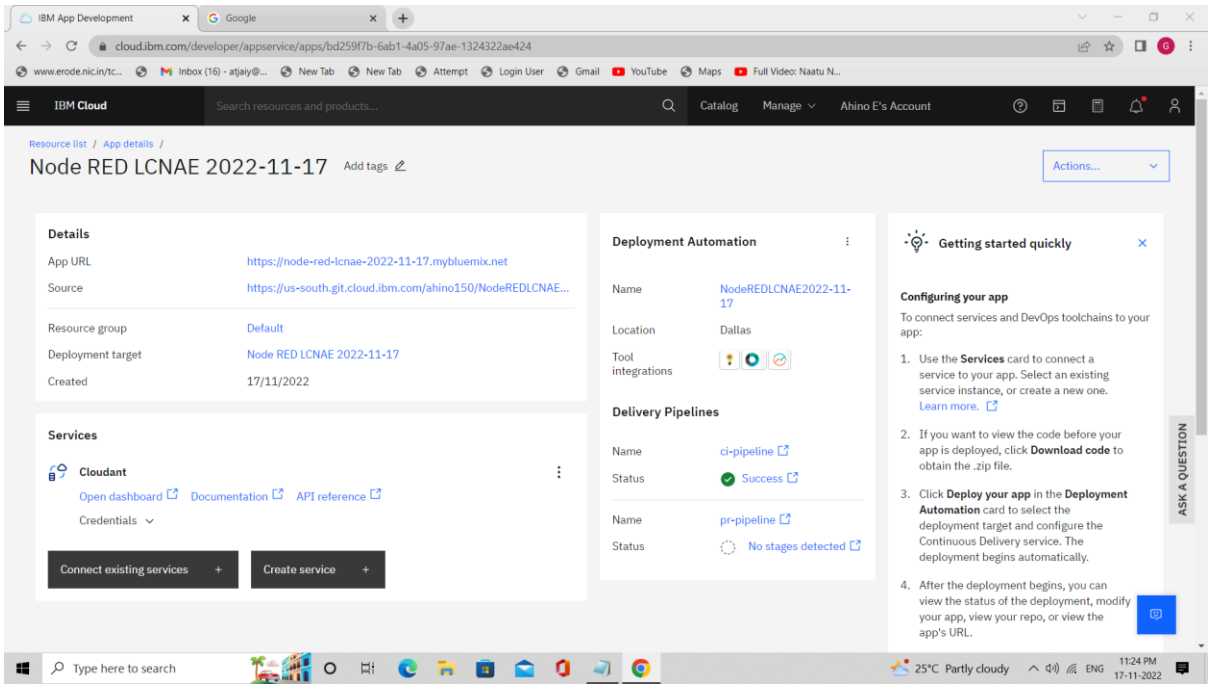


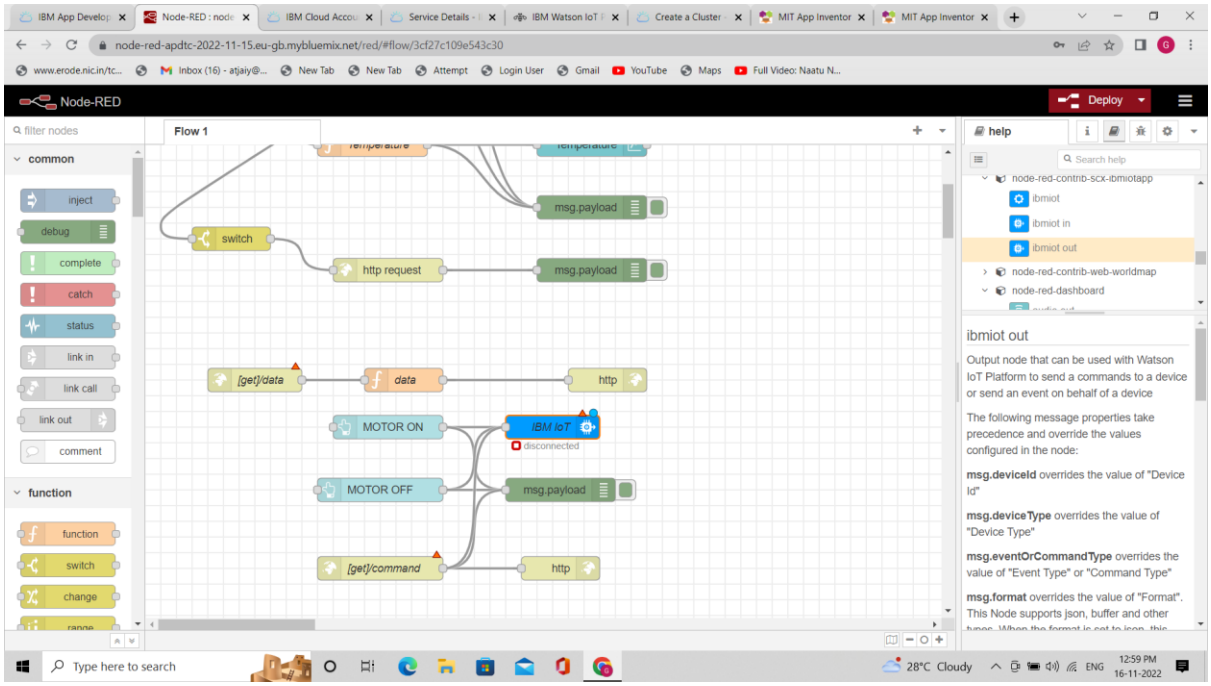
Steps to create a Node-Red service:

- Click on catalog in IBM cloud account.
- Click on services.
- Enter as Node red service.
- Node red app opens click on get started.
- Enter app name as default.
- Enter region as London.
- Choose pricing plan as lite.
- Click create.
- You will be redirected to a new page.
- Click on deploy your app.
- Choose cloud foundry.
- Enter IBM API key (by clicking new+).
- Choose memory size as default.
- Enter region as London.
- Click next.
- Click create.
- Status will be updated after creation.
- Click on App URL.
- Click next.
- Choose not recommended.
- Click next.
- You will see Node red page.
- Go to your node red flow editor.
- In the left panel choose nodes.
- In the right panel choose context mode.

- In hello node red inject node enter the data as string and choose to repeat as none.
- Click done.
- Click debug node.
- Choose to deploy.
- When you click button on inject node you can see the message in debug console.






Node-RED
Deploy
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
change
switch
http request
msg.payload
msg.payload
[get]/data
data
http
MOTOR ON
IBM IoT
disconnected
MOTOR OFF
msg.payload
[get]/command
http
help
ibmiot
ibmiot in
ibmiot out
node-red-contrib-web-worldmap
node-red-dashboard
ibmiot out
Output node that can be used with Watson IoT Platform to send a commands to a device or send an event on behalf of a device
The following message properties take precedence and override the values configured in the node:
msg.deviceId overrides the value of "Device Id"
msg.deviceType overrides the value of "Device Type"
msg.eventOrCommandType overrides the value of "Event Type" or "Command Type"
msg.format overrides the value of "Format". This Node supports json, buffer and other
Type here to search
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16-11-2022