

NODE RED CREATION

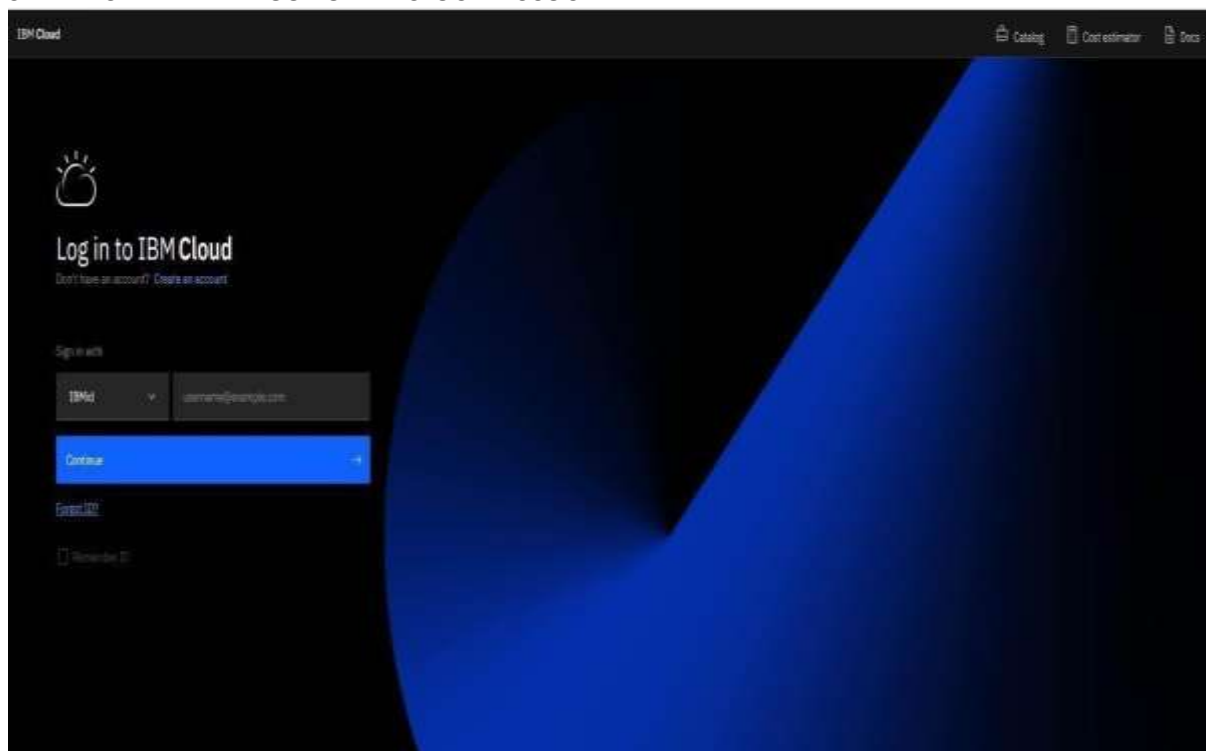
Date	07 NOVEMBER 2022
Team ID	PNT2022TMID01883
Project Name	SMART WASTE MANAGEMENT SYSTEM

AIM:

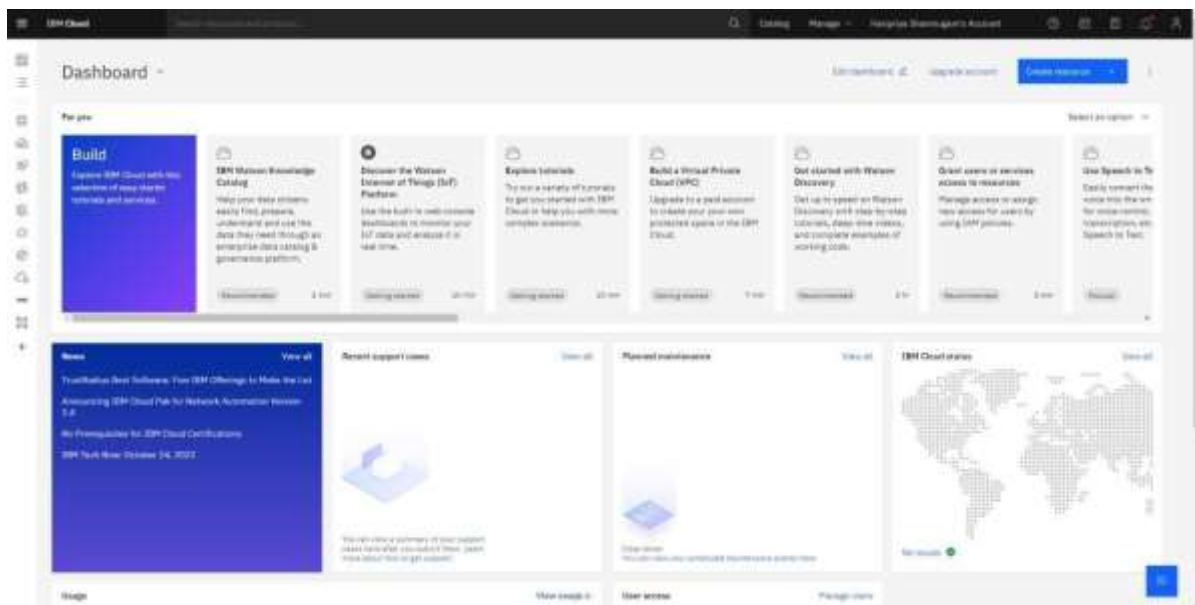
To create a Node-red service in our account and deploy the application.

STEPS:

STEP 1: CREATE AND GO TO IBM CLOUD ACCOUNT



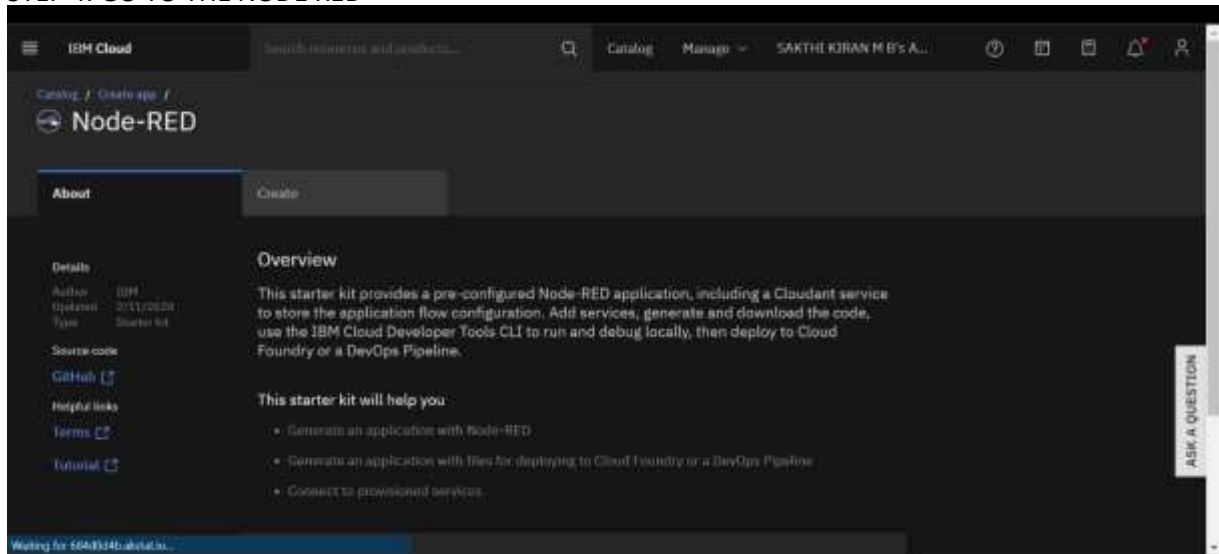
STEP 2: GO TO THE DASHBOARD AND VISIT THE CATALOG



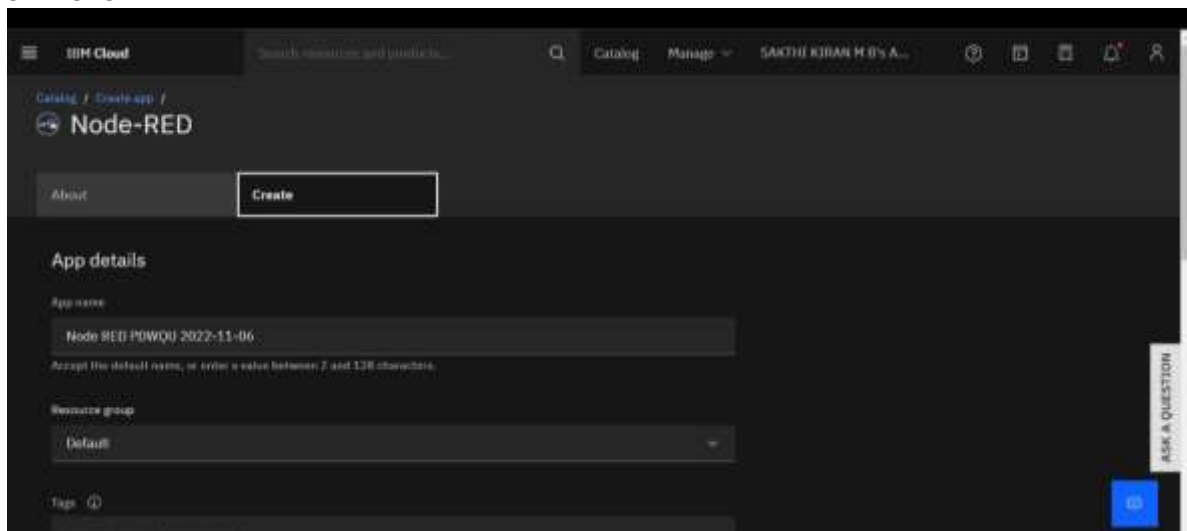
STEP 3: REACH THE INTERNET OF THINGS FOLDER



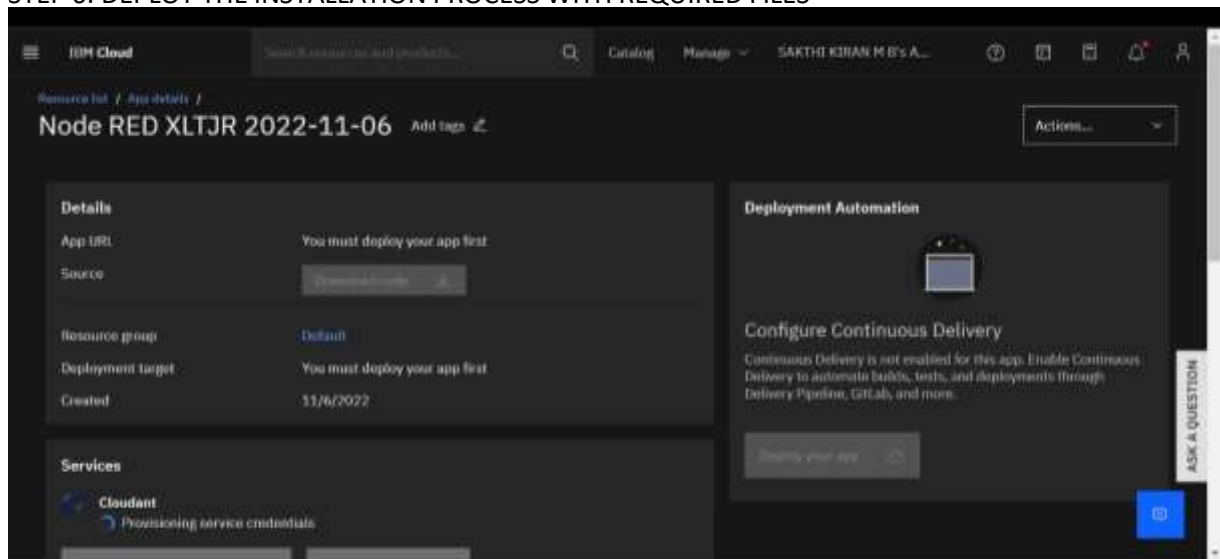
STEP 4: GO TO THE NODE RED



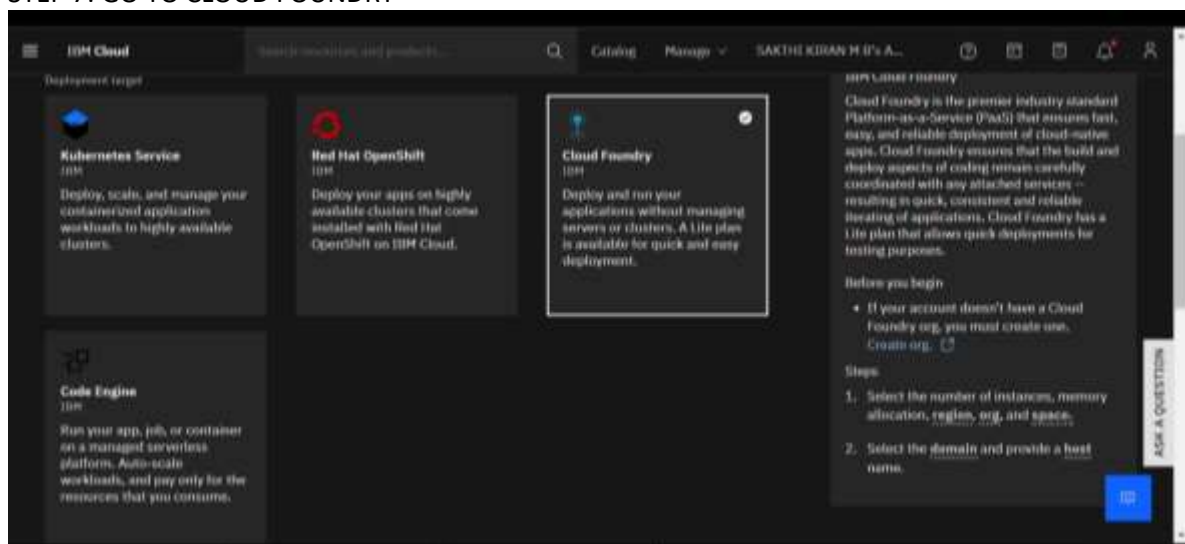
STEP 5: CREATE AN APP



STEP 6: DEPLOY THE INSTALLATION PROCESS WITH REQUIRED FILES



STEP 7: GO TO CLOUD FOUNDRY



STEP 8:DEPRECATE CLOUD FOUNDRY

The screenshot shows the IBM Cloud Foundry Public deprecation warning and the configuration form. The warning message states: "IBM Cloud Foundry Public is deprecated. Learn more". The configuration form includes fields for "IBM Cloud API key", "Number of instances" (set to 1), "Memory allocation per instance" (set to 2000 MB), "Region" (set to Dallas), "Organization" (set to Organization), and "Space" (set to Space). The "Organization" and "Space" fields are highlighted with red boxes and have a red error message: "The value is required.".

IBM Cloud Foundry Public is deprecated. [Learn more](#)

IBM Cloud API key

Number of instances

Memory allocation per instance

Region

Organization

Space

The value is required.

The value is required.

STEP 9: FILL THE DETAILS AND GO NEXT

The screenshot shows the IBM Cloud Foundry configuration form with details filled in. The "Region" is set to London, "Organization" is set to Sakthikiran_IBM, and "Space" is set to Sakthikiran_IBM. The "Host" is set to node-red-stg-2022-11-06 and the "Domain" is set to eu-gb.mybluemix.net. The "Next" button is highlighted in blue.

IBM Cloud API key

Number of instances

Memory allocation per instance

Region

Organization

Space

Host

Domain

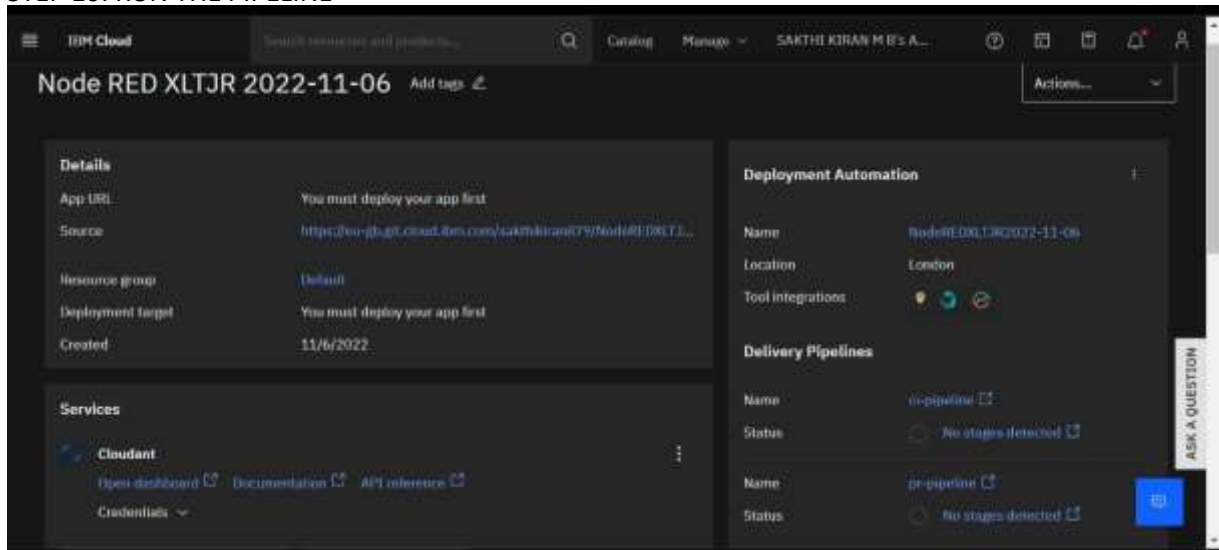
node-red-stg-2022-11-06

eu-gb.mybluemix.net

Cancel

Next

STEP 10: RUN THE PIPELINE

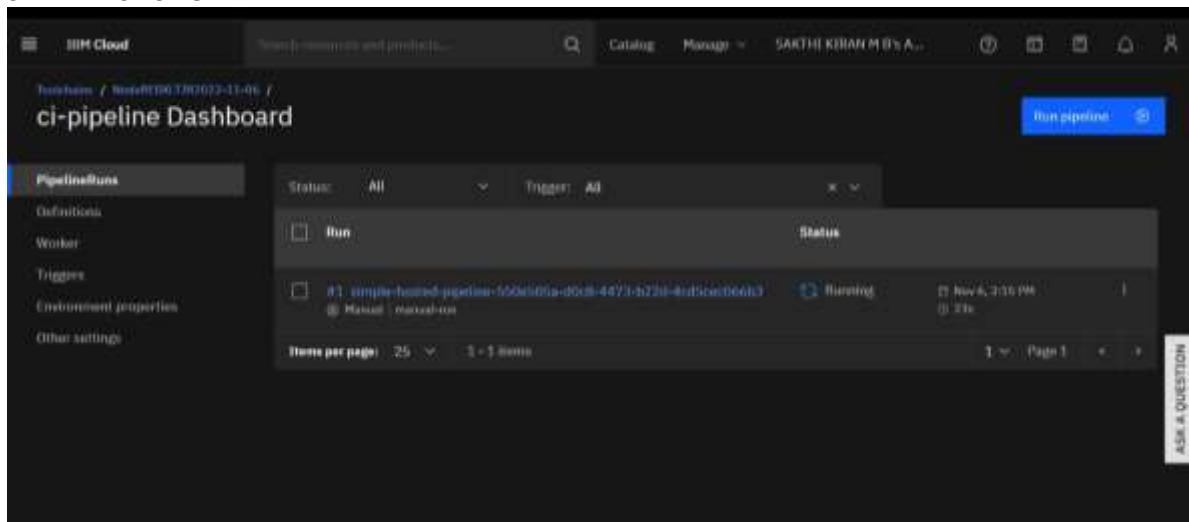


The screenshot shows the IBM Cloud console for a resource named "Node RED XLTJR 2022-11-06". The page is divided into several sections:

- Details:** Contains fields for App URL, Source, Resource group, Deployment target, and Created date. The App URL and Deployment target fields show a message: "You must deploy your app first".
- Services:** Lists the "Cloudant" service with links to "Open dashboard", "Documentation", and "API reference".
- Deployment Automation:** Shows the Name "NodeREDXLTJR2022-11-06", Location "London", and Tool integrations.
- Delivery Pipelines:** Lists two pipelines: "ci-pipeline" and "pr-pipeline", both with a status of "No stages detected".

A "Run pipeline" button is located in the bottom right corner of the page.

STEP 11: CLICK ON THE LINK



The screenshot shows the "ci-pipeline Dashboard" in the IBM Cloud console. The dashboard includes a "Run pipeline" button in the top right corner. Below the button, there is a table of pipeline runs with the following columns: "Run", "Status", and "Trigger".

Run	Status	Trigger
81 simple-based-pipeline-550e505a-d0c8-4473-b238-4bd5ca066b3	Running	Manual

The table also shows a "Manual" trigger and a "Run" button. The "Status" column shows "Running". The "Trigger" column shows "Manual". The table is filtered by "Status: All" and "Trigger: All". The "Items per page" is set to 25, and there is 1 item.

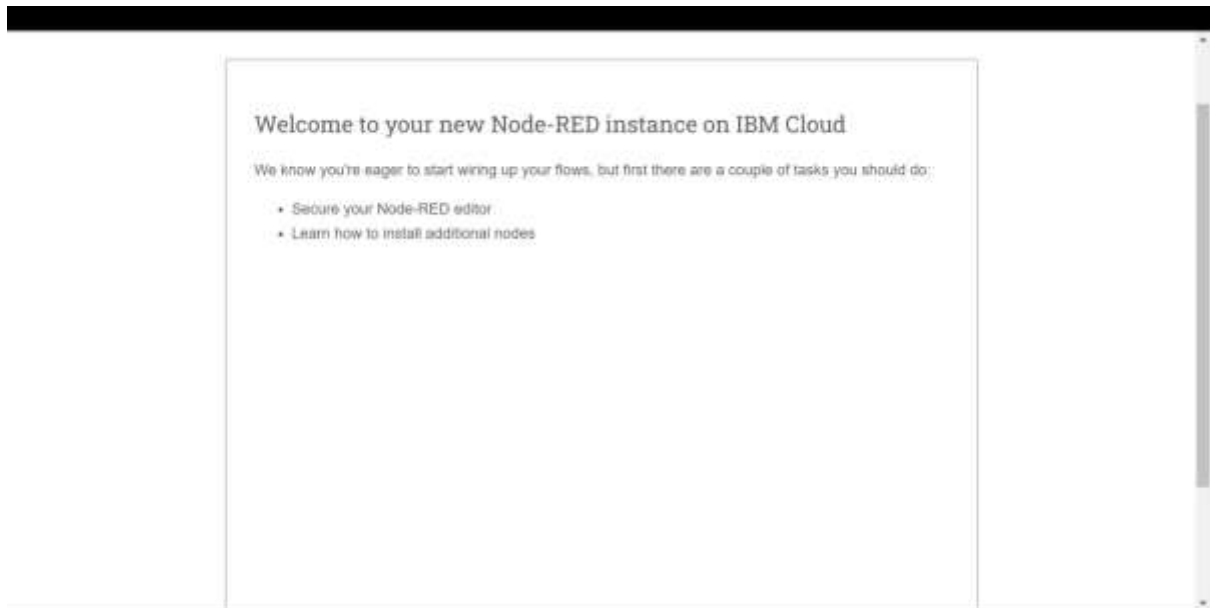
STEP 12: RUN THE EXTRACTION PROCESS

The screenshot shows the IBM Cloud DevOps console with a pipeline in a 'Running' state. The left sidebar lists 'Worker', 'Triggers', 'Environment properties', and 'Other settings'. The main area displays the pipeline's progress: 'Tasks Completed: 1 (Failed: 0, Cancelled 0), Incomplete: 5, Skipped: 0'. The duration is 42s. The trigger is '#1 Triggered by saktikiran079@gmail.com manual-run Worker: IBM Managed workers in LONDON'. The task list on the left includes 'extract-repository-url', 'extract-value-jq', 'clone-task', 'code-risk-analyzer', 'build', 'rolling-deploy-task', and 'publish-deployable...'. The 'extract-value-jq' task is highlighted as 'Completed' with a duration of 0s. The 'Logs' tab shows the URL 'https://w-gh-01f-c1e0d-1be.com/saktikiran079/NodeJSN130B22-11-06' and the message 'Step completed successfully'.

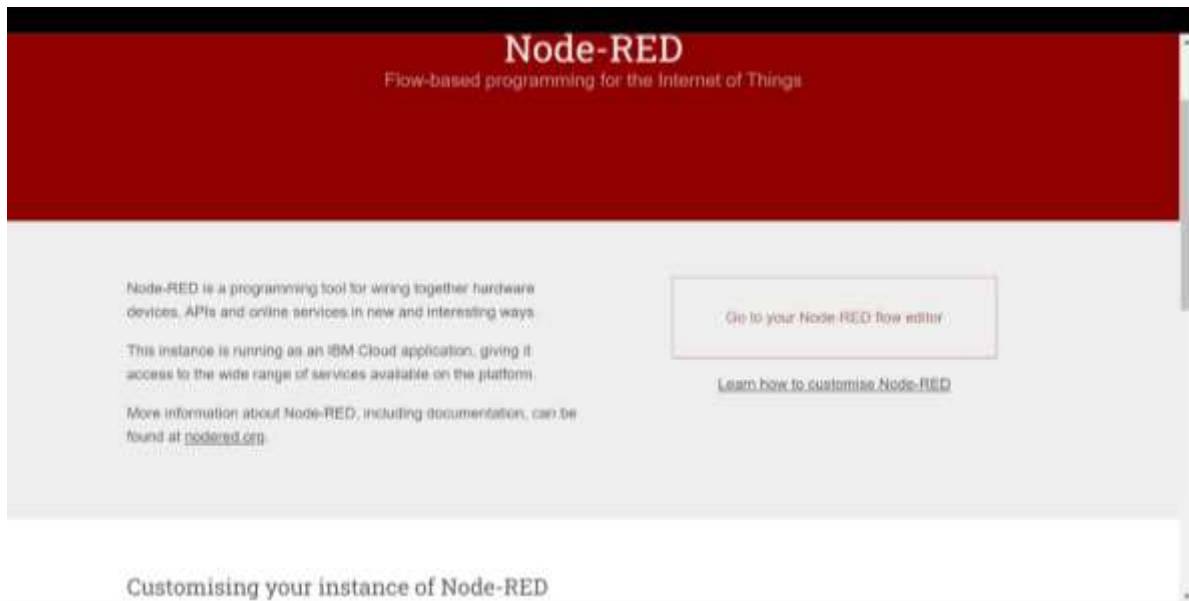
STEP 13: WAIT UNTIL ALL THE RESOURCES ARE INSTALLED

The screenshot shows the IBM Cloud DevOps console with a pipeline in a 'Succeeded' state. The left sidebar lists 'Definitions', 'Worker', 'Triggers', 'Environment properties', and 'Other settings'. The main area displays the pipeline's progress: 'Tasks Completed: 5 (Failed: 0, Cancelled 0), Skipped: 0'. The duration is 10m 28s. The trigger is '#1 Triggered by saktikiran079@gmail.com manual-run Worker: IBM Managed workers in LONDON'. The task list on the left includes 'extract-repository-url', 'extract-value-jq', 'clone-task', 'code-risk-analyzer', 'build', 'rolling-deploy-task', and 'publish-deployable...'. The 'extract-value-jq' task is highlighted as 'Completed' with a duration of 0s. The 'Logs' tab shows the URL 'https://w-gh-01f-c1e0d-1be.com/saktikiran079/NodeJSN130B22-11-06' and the message 'Step completed successfully'.

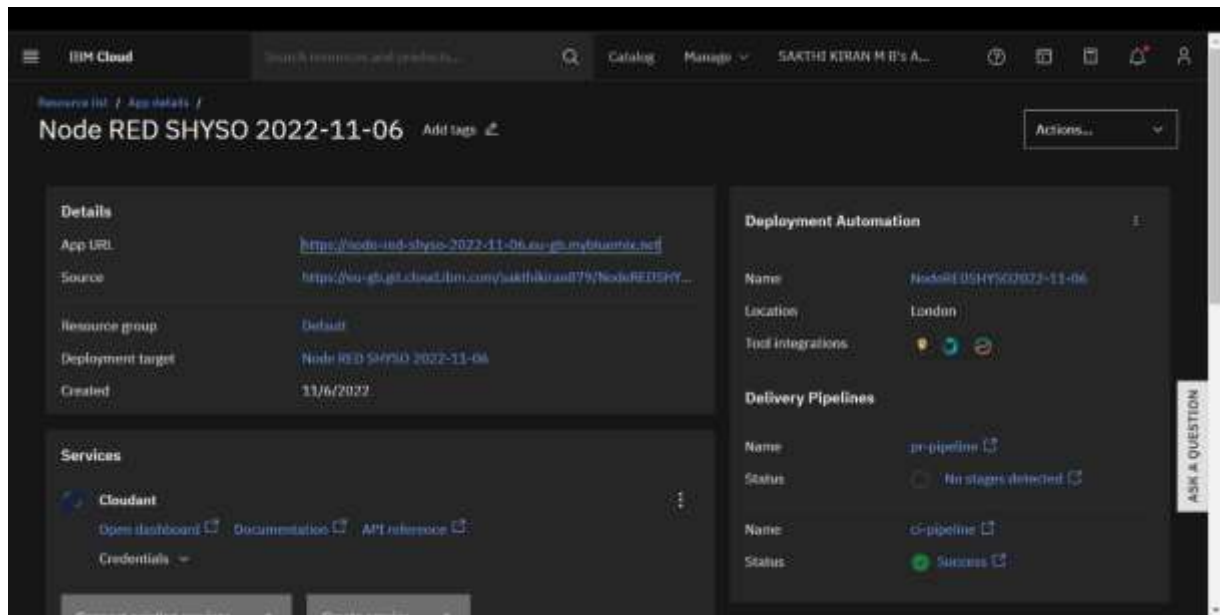
STEP 14: THE NODE RED IS CREATED



STEP 15: GO TO THE NODE RED EDITOR



STEP 16: CLICK ON THE URL LINK



STEP 17: THE APPLICATION IS READY TO BE CREATED



RESULT:

The Node Red is Service is thus created successfully.