

Create The IBM Watson IOT Platform And A Device

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Step 1: Creating Device

The screenshot shows the 'Device Drilldown - 1915001' page in the IBM Watson IoT Platform. The page is divided into a left sidebar with navigation options and a main content area. The sidebar includes a 'Back' button and a list of options: Device Credentials (selected), Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area has a header with a 'Back' button and the title 'Device Drilldown - 1915001'. Below the header, there is a message: 'You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.' This message is followed by a table of credentials:

Organization ID	egd1of
Device Type	Abika
Device ID	1915001
Authentication Method	use-token-auth
Authentication Token	3wsv+8A(t?Q?hBkw3N

Below the table, there is a warning icon and text: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.' followed by a link: 'Find out how to add these credentials to your device'. At the bottom of the page, there is a 'Connection Information' section with the text 'Basic connection information about this device.' and a table showing the 'Device ID' as '1915001'.

Step 2: Creating Device Events:

The screenshot shows the IBM Watson IoT Platform dashboard. The main view displays a table of device events for device ID 1915001, which is currently disconnected. The events are listed in a table with columns for Event, Value, Format, and Last Received. A simulation overlay is visible on the right side of the dashboard, showing a list of simulations and a table of device events.

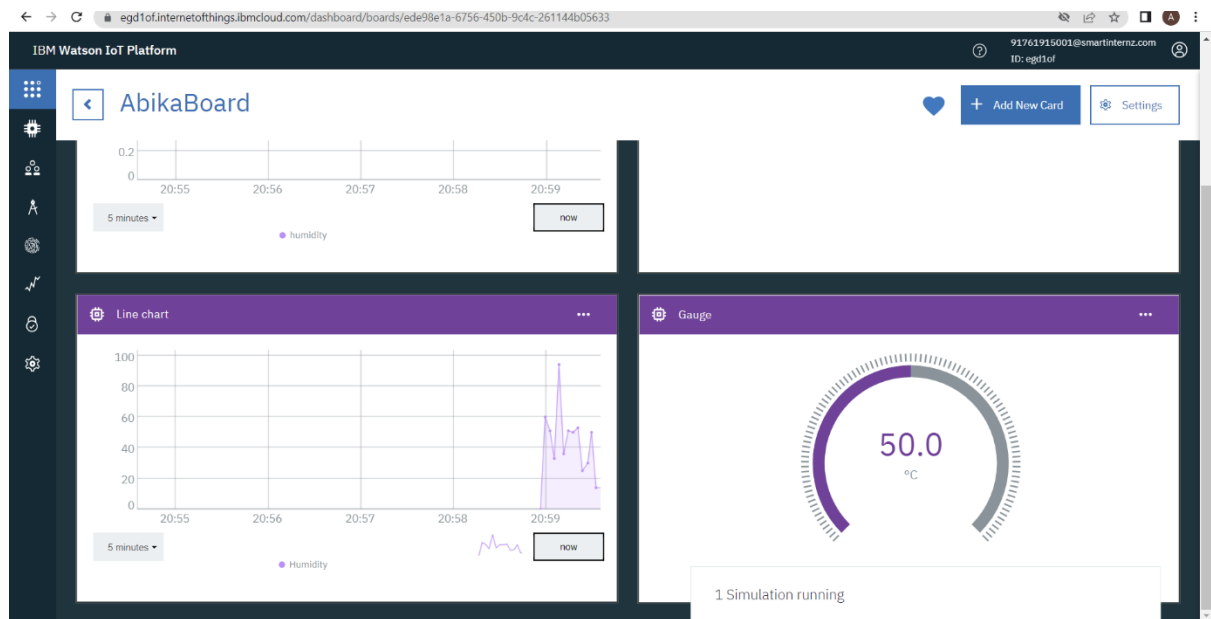
Event	Value	Format	Last Received
event_1	{"temperature":23,"humidity":34}	json	a few seconds ago
event_1	{"temperature":18,"humidity":91}	json	a few seconds ago
event_1	{"temperature":32,"humidity":71}	json	a few seconds ago
event_1	{"temperature":46,"humidity":90}	json	a few seconds ago
event_1	{"temperature":41,"humidity":39}	json	a few seconds ago

Step 3: Creating Space in IOT Watson Platform

The screenshot shows the IBM Cloud account page. The left sidebar contains a navigation menu with options like Account, Account resources, Resource groups, Cloud Foundry orgs, Licenses and entitlements, Tags, Dashboards, Account settings, IBM Cloud Shell settings, Notification distribution list, Classic infrastructure, Subscriptions, Audit log, and Company information. The main content area displays the 'Cloud Foundry Orgs' section, which includes a table of existing orgs and a 'Create' button.

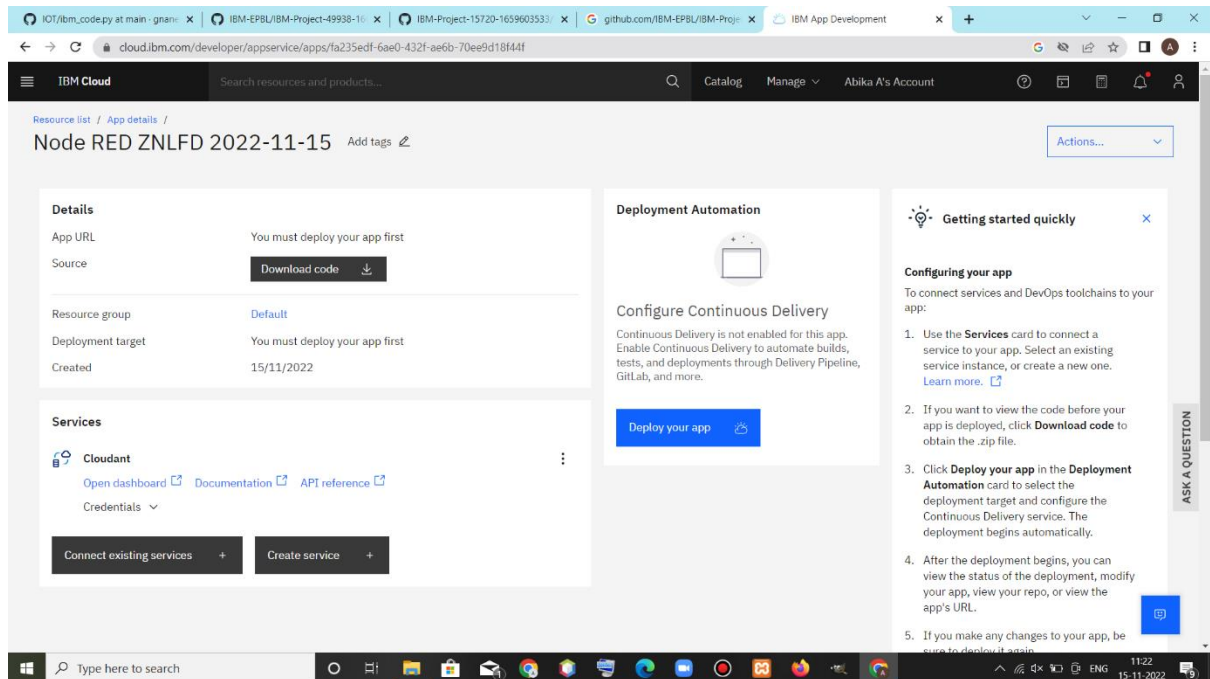
Name	Date Created	Spaces	Roles	Actions
ACGCET	11/7/2022	1	Manager	

Step 4: Creating Boards:

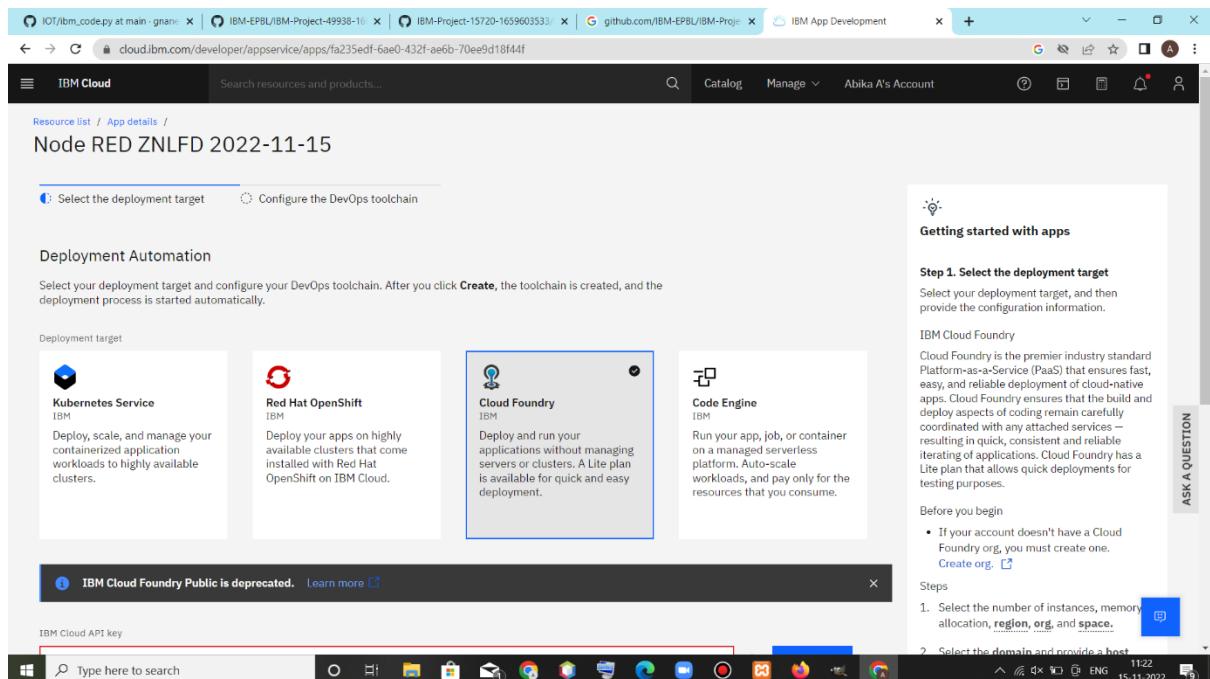


Create Node-RED Service

Step 1: Open the Node-red App



Step 2: Choose the cloud foundry option



Step 3: Fill the necessary credentials

The screenshot shows the IBM Cloud Foundry Public console. At the top, there is a navigation bar with the IBM Cloud logo and a search bar. Below the navigation bar, there is a header section with a message: "IBM Cloud Foundry Public is deprecated. Learn more". The main content area is titled "IBM Cloud API key" and contains a form for creating a new API key. The form includes a "New" button and a "Next" button. The "Next" button is highlighted in blue. The form also includes fields for "Number of instances" (set to 1), "Memory allocation per instance" (set to 256 MB), "Region" (set to Sydney), "Organization" (set to ACGCET), "Space" (set to New), "Host" (set to node-red-znlf-2022-11-15), and "Domain" (set to au-syd.mybluemix.net). A sidebar on the right contains a "ASK A QUESTION" button and a "Getting started quickly" section with a list of steps.

Step 4: View the details

The screenshot shows the IBM Cloud console displaying the details of a Node RED ZNLF 2022-11-15 app. The main content area is titled "Node RED ZNLF 2022-11-15" and includes a "Details" section with fields for "App URL", "Source", "Resource group", "Deployment target", and "Created". The "Source" field has a "Download code" button. The "Details" section also includes a "Services" section with a "Cloudant" service and a "Getting started quickly" section with a list of steps. The "Deployment Automation" section shows the "Name" as "NodeREDZNLF2022-11-15" and the "Location" as "Dallas". The "Delivery Pipelines" section shows two pipelines: "ci-pipeline" and "pr-pipeline", both with a status of "No stages detected". A sidebar on the right contains a "ASK A QUESTION" button and a "Getting started quickly" section with a list of steps.

Step 5: Open ci-pipeline Dashboard

The screenshot displays the IBM Cloud CI Pipeline Dashboard. The browser address bar shows the URL: `cloud.ibm.com/devops/pipelines/tekton/3adccf9f-c05f-412b-88f9-78e4d01961ed?env_id=ibmcyprus-south`. The dashboard header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user's account (Abika A's Account). The main title is "ci-pipeline Dashboard", and there is a "Run pipeline" button. On the left, a sidebar lists navigation options: PipelineRuns (selected), Definitions, Worker, Triggers, Environment properties, and Other settings. The main content area shows a table of pipeline runs. The table has columns for Status and Trigger. The first row shows a run with ID `#1 simple-hosted-pipeline-8d6c7638-6c67-46c9-92ab-99dffe6912f3` in a "Running" status, triggered manually. The table footer indicates "Items per page: 25" and "1 • 1 items".

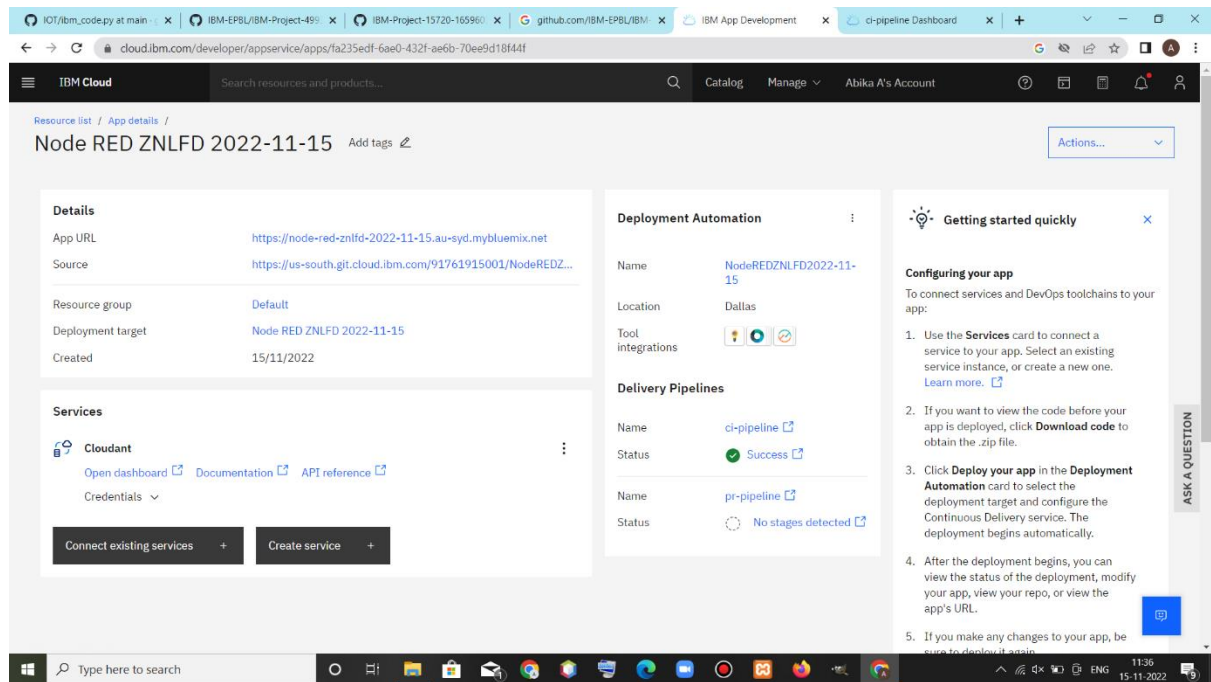
Status	Trigger
Running	#1 simple-hosted-pipeline-8d6c7638-6c67-46c9-92ab-99dffe6912f3 Manual manual-run

Items per page: 25 | 1 • 1 items | Page 1

Step 6: Get all the packages run

The screenshot displays the IBM Cloud DevOps console interface. At the top, the navigation bar includes the IBM Cloud logo, a search bar, and user account information for 'Abika A's Account'. The main header shows the breadcrumb 'Toolchains / NodeREDZNF02022-11-15 / ci-pipeline / ci-pipeline PipelineRun' and a 'Run pipeline' button. The left sidebar lists navigation options: PipelineRuns (selected), Definitions, Worker, Triggers, Environment properties, and Other settings. The main content area shows the details of a pipeline named 'simple-hosted-pipeline-8d6c7638-6c67-46c9-92ab-99dfe6912f3', which is currently 'Running'. It provides summary statistics (5 tasks completed, 0 failed, 0 cancelled, 1 incomplete, 0 skipped) and a duration of 7m 55s. A list of tasks is shown, with 'extract-repository-url' selected. The task details for 'extract-value-jq' are displayed, showing it is 'Completed' with a duration of 1s. A log snippet is visible, indicating the step completed successfully with a URL to the repository.

Step 7: Get the Node-Red App URL



Step 8: Design the application and deploy using IBM Watson IoT

