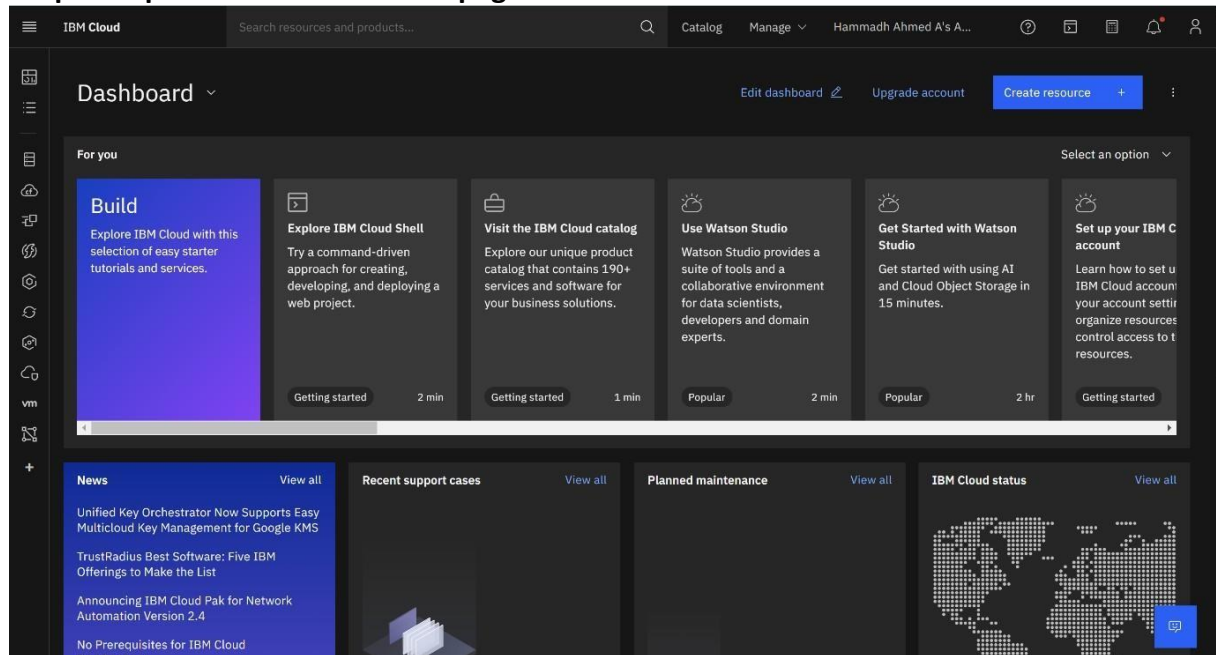


CREATE AND CONFIG IBM CLOUD SERVICE

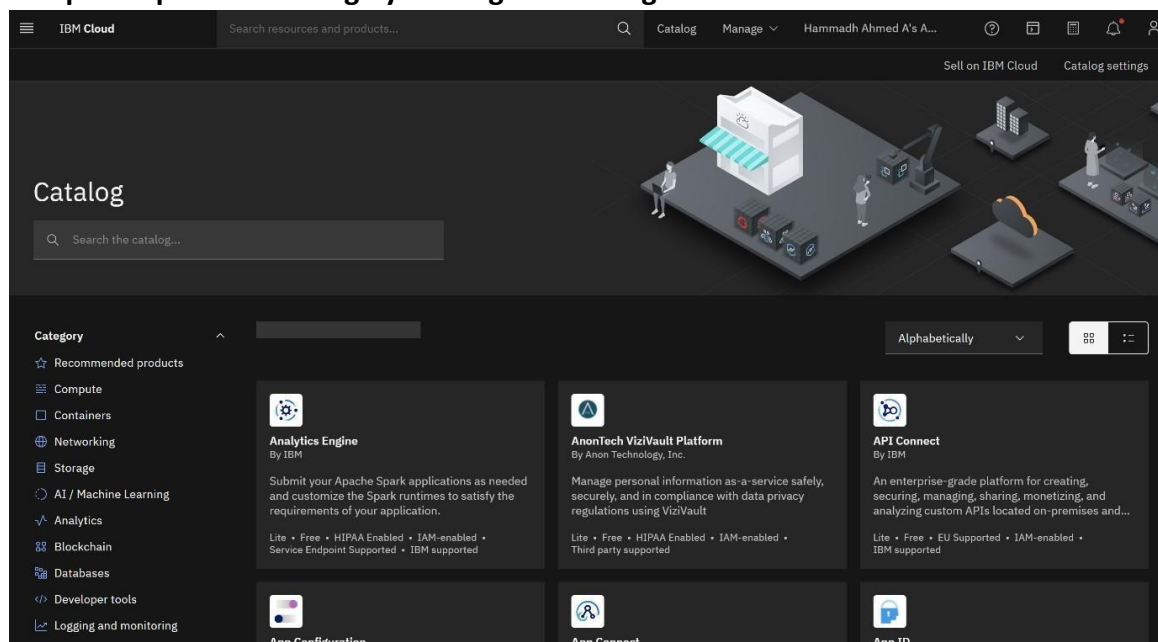
Create Node-RED Service

Date	NOVEMBER 2022
Team ID	PNT2022TMID53791
Project Name	IOT Based Real-time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

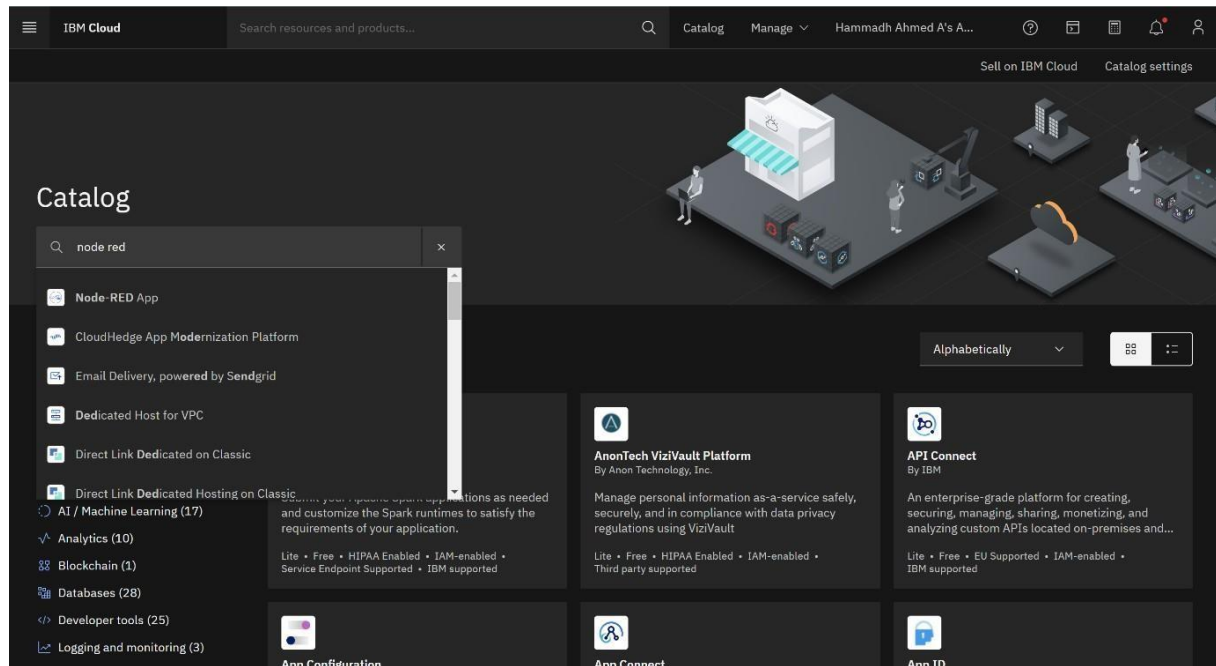
Step 1—Open the IBM cloud web page



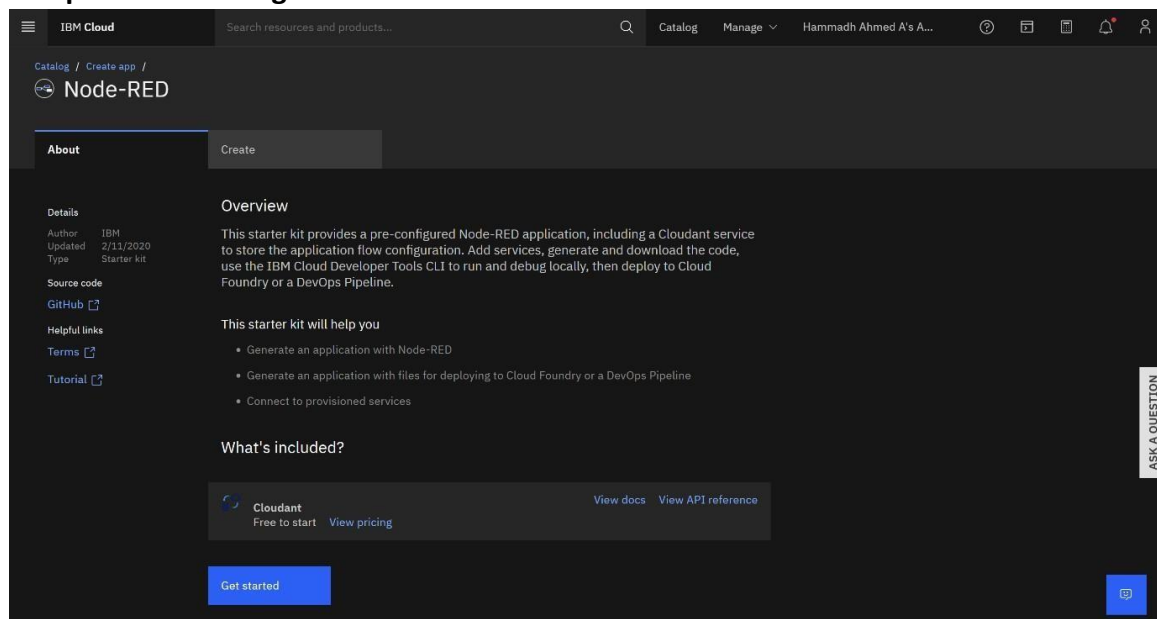
Step 2—Open the catalog by clicking the catalog session



Step 3—Search for NODE RED in the search bar



Step 4—Select the get started button



Step5—After filling the necessary details click the Create button

IBM Cloud

Search resources and products...

Catalog

Manage

Hammadh Ahmed A's A...

Accept the default name, or enter a value between 2 and 128 characters.

Resource group

Default

Tags

Examples: env:dev, version:1

Platform

☒ Node.js

Service details

Cloudant

Region

London

Resource group

Default

Pricing plan

Lite

Pricing details

Terms

Cancel

Create

ASK A QUESTION

Catalog / Create app /

Node-RED

About

Create

App details

App name

Node RED VQNX 2022-11-06

Resource group

Default

Tags

Examples: env:dev, version:1

Platform

☒ Node.js

Service details

Cloudant

ASK A QUESTION

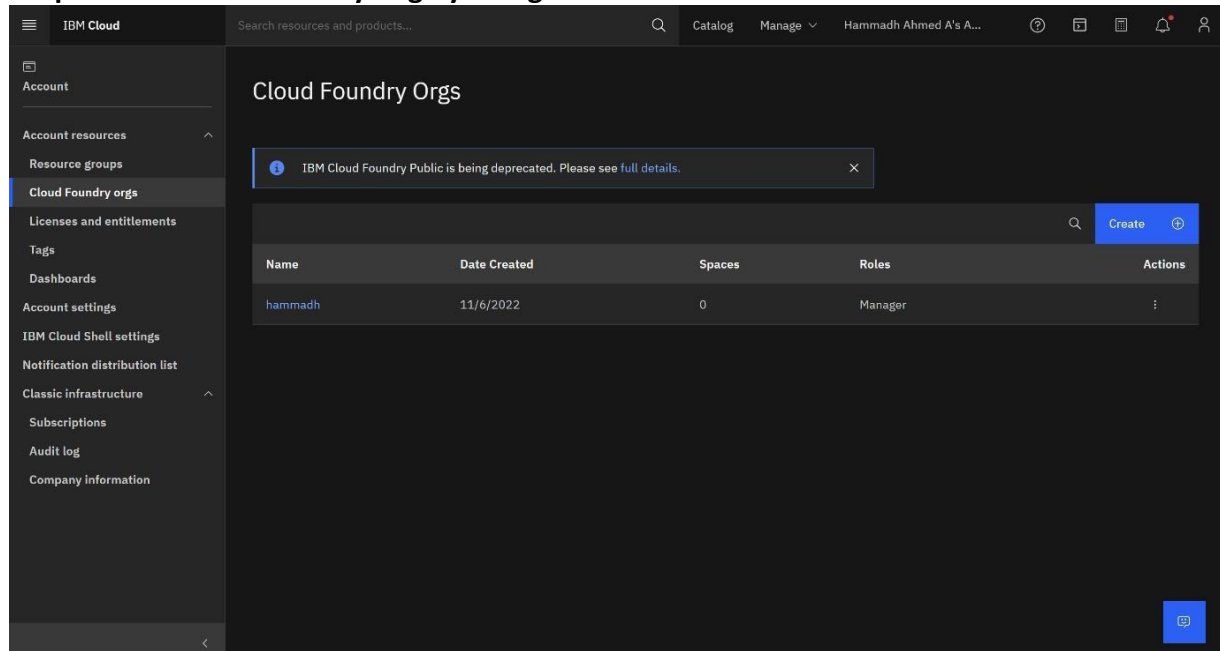
Step 6—Select the DEPLOY YOUR APP button

The screenshot shows the IBM Cloud interface for an application named "Node RED VQNX 2022-11-06". The top navigation bar includes the IBM Cloud logo, a search bar, and user information. The main content area is divided into two columns. The left column contains a "Details" section with fields for App URL, Source (with a "Download code" button), Resource group (set to "Default"), Deployment target, and Created date (11/6/2022). Below this is a "Services" section for "Cloudant" with links to "Open dashboard", "Documentation", and "API reference", and buttons for "Connect existing services" and "Create service". The right column features a "Deployment Automation" section with a "Deploy your app" button. A "Getting started quickly" link is at the bottom left, and an "ASK A QUESTION" button is on the right side.

Step 7—Select the Cloud Foundry and click CREATE ORG on the right to create the org

The screenshot shows the IBM Cloud "Deployment Automation" page. The top navigation bar is the same as in Step 6. The main content area has a breadcrumb trail: "Select the deployment target" > "Configure the DevOps toolchain". The "Deployment Automation" section explains that users should select a deployment target and configure their DevOps toolchain. Below this, the "Deployment target" section displays three options: "Kubernetes Service" (IBM), "Red Hat OpenShift" (IBM), and "Cloud Foundry" (IBM). The "Cloud Foundry" option is highlighted with a white border. To the right, the "Getting started with apps" section provides instructions for "Step 1. Select the deployment target", including a note about creating a Cloud Foundry org if it doesn't exist, and a list of steps: 1. Select the number of instances, memory allocation, region, org, and space. 2. Select the domain and provide a host name. An "ASK A QUESTION" button is on the right side.

Step 8—Create a Foundry Org by filling in the details

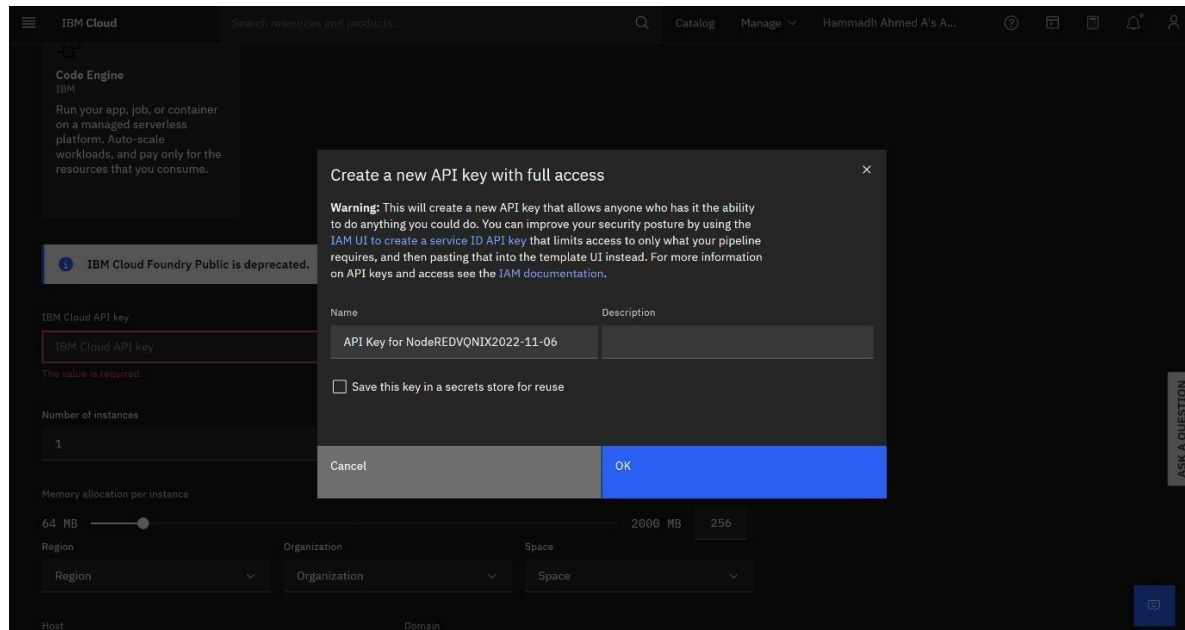


The screenshot shows the IBM Cloud Foundry Orgs page. On the left is a navigation menu with options like Account, Account resources, Resource groups, Cloud Foundry orgs (selected), Licenses and entitlements, Tags, Dashboards, Account settings, IBM Cloud Shell settings, Notification distribution list, Classic infrastructure, Subscriptions, Audit log, and Company information. The main area is titled 'Cloud Foundry Orgs' and contains a table with the following data:

Name	Date Created	Spaces	Roles	Actions
hammadh	11/6/2022	0	Manager	

There is a 'Create' button in the top right corner of the table area. A notification banner at the top states: 'IBM Cloud Foundry Public is being deprecated. Please see full details.'

Step 9-Create an API key by generating a random one



The screenshot shows the IBM Cloud Code Engine page. A dialog box titled 'Create a new API key with full access' is open. The dialog contains a warning: 'Warning: This will create a new API key that allows anyone who has it the ability to do anything you could do. You can improve your security posture by using the IAM UI to create a service ID API key that limits access to only what your pipeline requires, and then pasting that into the template UI instead. For more information on API keys and access see the IAM documentation.'

The dialog has two input fields: 'Name' and 'Description'. The 'Name' field contains the text 'API Key for NodeREDVQNIIX2022-11-06'. Below these fields is a checkbox labeled 'Save this key in a secrets store for reuse'. At the bottom of the dialog are 'Cancel' and 'OK' buttons.

In the background, the Code Engine page is visible, showing a form for creating a new instance. The 'IBM Cloud API key' field is highlighted with a red border and the text 'The value is required.' Below it, the 'Number of instances' is set to 1. The 'Memory allocation per instance' is set to 64 MB. The 'Region' is set to 'Region', 'Organization' is set to 'Organization', and 'Space' is set to 'Space'.