



# CLOUD BASICS

Navigating IBM Cloud



**IBM Cloud**



IBM



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## An Introduction to Cloud and IBM Cloud Platform

### Prerequisites

None

### Purpose of this Lab

The purpose of this lab is to introduce the IBM Cloud Platform.

By the end of this lab, you will be have:

- A basic understanding of Cloud
- An understanding of and the ability to navigate the IBM Cloud Platform
- The ability to launch and use services on IBM Cloud



## Part 1: Signing up for IBM Cloud

We are going to sign up for a free IBM Cloud account.

Go to <https://www.ibm.com/cloud/>

Click "Sign up".

The screenshot shows the IBM Cloud homepage with a dark background. At the top, there's a navigation bar with links for Cloud, Why IBM?, Products, Solutions, Garage, Pricing, Blogs, Docs, and Support. On the far right of the header, there are icons for search, user profile, and menu, with the 'Sign up' button highlighted by a red circle. Below the header, the main content features the text "This is not just any cloud. This is the IBM Cloud." in large white letters. To the right of this text is a graphic of a blue sun with rays. Below the main text, there's a subtext: "The IBM Cloud is the cloud for the enterprise. Yours." followed by two buttons: "Sign up" and "Learn about IBM Cloud Private". Further down, there's a link "IBM Bluemix is now IBM Cloud >". At the bottom of the page, there are several footer links: "Cloud in the News", "With Spring and IBM Software", "Read more →", "IBM: Defining bare metal since 2005.", "Read more →", "IBM give", and "IBM give".

Fill in the required boxes.

Click "Create Account".



IBM Cloud

Sign up for an IBMid and create your IBM Cloud account  
Build on IBM Cloud for free with no time restrictions

**Guaranteed free development with Lite plans**  
Develop worry-free and at no cost with cap based Lite plan services for as long as you like.

**Start on your projects right away**  
Skip entering your credit card info and get working in just a few short steps.

**Get \$200 on us to try paid services**  
Ease into cloud pricing or try something new with \$200 in credit available for 1 month upon upgrade.

**Ready to get started? Sign up today!**

Keep me informed of products, services, and offerings from IBM companies worldwide.  
 By clicking Create Account I accept the [IBM Cloud privacy policy](#) and [IBM Cloud terms](#).

**Create Account**



## Part 2: Navigating the IBM Cloud Platform

Log into IBM Cloud at <https://console.bluemix.net/>

If this is the first time you are using IBM Cloud (formerly Bluemix), an introduction window will appear, feel free to read it. Otherwise, click through. Click “Next”, then click “Finish”.

The screenshot shows the IBM Cloud Dashboard. A modal window titled "Introducing resource groups" is open in the center. The modal displays a simplified version of the dashboard with a single Cloud Foundry App named "boilerplate-nick". The main dashboard behind the modal shows a "Cloud Foundry Apps" section with 768 MB/2 GB Used, listing the app "boilerplate-nick" with a route "boilerplate-nick.mybluemix.net" and 512 MB memory. The modal has a "Next" button at the bottom right. The top navigation bar includes "Catalog", "Docs", "Support", "Manage", and a user profile icon.

We are now looking at the IBM Cloud Dashboard.



The screenshot shows the IBM Cloud dashboard. At the top, there's a navigation bar with 'Catalog' (circled in red), 'Docs', 'Support', 'Manage', and a user profile icon. Below the navigation bar, the word 'Dashboard' is displayed. Underneath, there are sections for 'RESOURCE GROUP' (All Resources, REGION US South, CLOUD FOUNDRY ORG gybumb7147@msn.com, CLOUD FOUNDRY SPACE dev), a search bar ('Filter by resource name...'), and a 'Create resource' button. The main content area features a large circular icon with a grid of squares, followed by the word 'Dashboard'. A message states: 'Your dashboard is empty. Either you haven't created any resources yet or you've filtered everything out. Check out some of our popular offerings we've highlighted below, or go to the catalog to create a new application or service.' Below this message is a blue 'Explore our Offerings' button.

Click on the “Catalog” button found in the upper right hand corner of the screen.

The Catalog is a compilation of the services offered on the IBM Cloud.

The screenshot shows the IBM Cloud Catalog page. At the top, there's a banner with the text 'Try the best of the Catalog for free with no time restrictions with Lite plans. The Lite filter is enabled. Remove the filter to see the full Catalog.' with a close button 'X'. Below the banner, there's a sidebar with 'All Categories >' and a search bar with a 'Search' button and a 'Filter' button. The main content area is divided into several sections: 'Infrastructure' (Compute, Storage, Network, Security, Containers, VMware), 'Platform' (Boilerplates, APIs, Application Services, Blockchain, Cloud Foundry Apps, Data & Analytics, DevOps, Finance, Functions, Integrate, Internet of Things, Mobile, Network, Security, Watson), 'Compute' (Bare Metal Server, Virtual Server), 'Storage' (Block Storage, File Storage, Object Storage), 'Network' (Content Delivery Network, Direct Link Dedicated, Direct Link Dedicated Hosting). Each service listing includes a small icon, a title, a brief description, and an 'IBM' button.



IBM Cloud supports a broad range of cloud services and capabilities from IBM, open source communities and third-party developers. These are indicated by the small colored ovals below each service description.

IBM

Community

Third Party

This is the navigation bar.



The **Docs** link provides details on each of the services. This is the first “go to” resource if you have questions about any of the services. IBM Cloud Docs houses tutorials, demos, videos, starter kits...if you have questions about a service, this is a great resource

The **Support** page is available to answer any questions that cannot be found in Docs.

And lastly **Manage** is where you can manage your account Space and Organization. You can have multiple Spaces. This is a way to keep different projects organized.

Click on “Docs”.

Get started by deploying your first app

Java Liberty for Java Node.js .NET Swift XPages

Show more

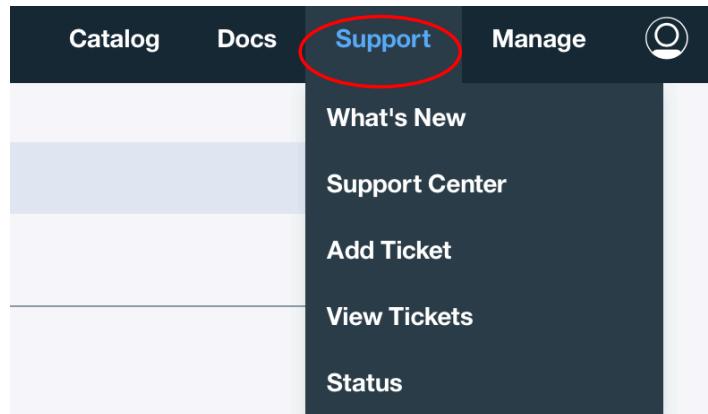
FEEDBACK

## IBM Cloud

- |  |   |  |
|--|---|--|
| <a href="#">What is IBM Cloud?</a>           | <a href="#">Monitoring and Logging</a>            | <a href="#">Hybrid</a>                   |
| <a href="#">Managing Your Account</a>        | <a href="#">Managing APIs</a>                     | <a href="#">Notices and Terms of Use</a> |
| <a href="#">Managing Identity and Access</a> | <a href="#">Managing Billing and Usage</a>        | <a href="#">Glossary</a>                 |
| <a href="#">CLI and Dev Tools</a>            | <a href="#">Managing Infrastructure Resources</a> | <a href="#">What's New?</a>              |
| <a href="#">Service Availability</a>         | <a href="#">Troubleshooting</a>                   | <a href="#">Solution Tutorials</a>       |
| <a href="#">Managing Apps</a>                | <a href="#">IBM Cloud Security</a>                | <a href="#">Architecture Center</a>      |



Click on “Support”.



Click on “Manage”.

Click on the head icon.





## Part 3: Launching a Watson Service

Let's create our own service.

Click on "Catalog".

Type into the search bar: "Personality Insights".

Alternative way: In the Categories sections, select Watson, then Personality Insights.

Click on "Personality Insights" under the Watson section.

The screenshot shows the IBM Cloud Catalog interface. At the top, there is a navigation bar with icons for three, a search bar containing 'Personality Insights', and links for Catalog, Docs, Support, Manage, and a user profile. On the left, there is a sidebar with 'All Categories (3)' and a list of categories: Infrastructure (Compute, Storage, Network, Security, Containers, VMware), Platform (3) (Boilerplates, APIs, Application Services, Blockchain, Cloud Foundry Apps, Data & Analytics, DevOps, Finance, Functions, Integrate, Internet of Things, Mobile, Network, Security, Watson (1)), and Watson (1). The main content area shows search results for 'Personality Insights'. Under the 'Boilerplates' section, there are two items: 'Personality Insights Java Web Starter' and 'Personality Insights Node.js Web Starter'. Both items have small circular icons with the IBM logo. Under the 'Watson' section, there is one item: 'Personality Insights', which has a circular icon with a person icon and the text 'The Watson Personality Insights derives insights from transactional data'. This entry is circled with a red oval. Below the Watson section, there is a 'Looking for more?' section with a question mark icon and a note about experimental services.

Watson Personality Insights predicts personality characteristics, needs and values through written text. Understand your customers' habits and preferences on an individual level, and at scale. We see it used quite frequently to dictate customer interactions based on their preferences. Subscription services and experiences can be catered to customer personality as can offers or even the approach a sales person may take when approaching a customer.



Type a Service name of your choice. This will be added to a list of your deployed services, and that list will grow, so it is helpful to use a descriptive title including a reference to the project it will be used for. (Ex. Visual Recognition for Flower Classification)

[View all](#)

## Personality Insights

Watson Personality Insights:  
Personality Insights derives insights from transactional and social media data to identify psychological traits which determine purchase decisions, intent and behavioral traits; utilized to improve conversion rates.

Service name:

Choose a region/location to deploy in: US South

Choose an organization: erika.bratschun@ibm...

Choose a space: dev

[Lite](#) [IBM](#)

[View Docs](#)

AUTHOR IBM  
PUBLISHED 12/12/2017  
TYPE Service  
LOCATION Sydney, Germany, United Kingdom, US South

### Images

Click an image to enlarge and view screen captures, slides, or videos. Screen caps show the user interface for the service after it has been provisioned.

Pricing Plans

Monthly prices shown are for country or region: [United States](#)

Need Help? [Contact IBM Cloud Sales](#)

Estimate Monthly Cost [Cost Calculator](#)

[Create](#)

The “Lite” plan is selected by default.

Select “Create” to deploy the Personality Insights Service.

This page indicates that the service had been created.



The screenshot shows the IBM Cloud interface for the Watson Personality Insights service. The left sidebar has links for Getting started, Manage (which is highlighted), Service credentials, Plan, and Connections. The main content area shows the service name 'Personality Insights-k2', location 'US South', organization 'erika.bratschun@ibm.com', and space 'dev'. Below this is a 'Getting started tutorial' section with a link to 'Edit in GitHub'. A note explains that the service derives insights from social media, enterprise data, or digital communications. The 'Before you begin' section lists steps: creating an instance and getting credentials. At the bottom, there's a 'Developer resources' section with a 'Demo' link.

Getting started

Manage

Service credentials

Plan

Connections

Watson /

## Personality Insights-k2

Location: US South    Org: erika.bratschun@ibm.com    Space: dev

### Getting started tutorial

Last Updated: 2017-10-18 | [Edit in GitHub](#)

The IBM Watson™ Personality Insights service derives insights about personality characteristics from social media, enterprise data, or other digital communications. This tutorial can help you get started quickly with the Personality Insights service. The examples show you how to call the service's `POST /v3/profile` method with different types of input and how to request different types of output and output formats.

### Before you begin

- Create an instance of the service:
  - If you're seeing this, you created your service instance. Now get your credentials.

Click on “Manage”.

Click on “Demo”.

Getting started  
Manage  
Service credentials

Watson /  
Personality Insights-k2  
Location: US South    Org: erika.bratschun@ibm.com    Space: dev

Plan

Connections



## Personality Insights

Enables deeper understanding of people's personality characteristics, needs, and values to help engage users on their own terms

Developer resources:

- [Getting started tutorial](#)
- [Demo](#)

The default demo offers a few twitter handles to analyze their personalities based on tweets. You can also put in your own handle if you'd like. Other options include body of text.

Click on one of the Twitter handles. (@faridyu is used below)

Click “Analyze”.



## Try the service

You need text written by the person whose personality you're interested in. It should contain words about every day experiences, thoughts, and responses.

You can play with the demo with as little as 100 words, but for a more accurate analysis, you need more words.

[Reset](#) | [Terms of use](#)

The screenshot shows a user interface for analyzing Twitter personalities. At the top, there are three tabs: 'Tweets and Replies' (which is selected), 'Body of Text', and 'Your Twitter Personality'. Below the tabs, there is a section titled 'Choose:' with a list of six Twitter users:

- @Oprah (EN)
- @KingJames (EN)
- @DonFranciscoTV (ES)
- @pontifex\_es (ES)
- @trikaoofficial (AR)
- @faridyu (JA)
- @Krungy21 (KO)

At the bottom right of the list is a blue 'Analyze' button, which is circled in red to indicate it is the next step.

Scroll down to the output.

### Output

The scores you see are all percentiles. They are comparing one person to a broader population. For example, a 90% on Extraversion does not mean that the person is 90% extroverted. It means that for that single trait, the person is more extroverted than 90% of the people in the population.

[Our sample population consists of Twitter users who tweet in their respective languages](#) and whose personalities we calculated using our model.

## Personality Portrait

56698 words analyzed: **Very Strong Analysis**

### Summary

You are expressive, confident and rational.

You are persistent: you can tackle and stick with tough tasks. You are cheerful: you are a joyful person and share that joy with the world. And you are confident: you are hard to embarrass and are self-confident most of the time.

Your choices are driven by a desire for discovery.

You are relatively unconcerned with taking pleasure in life: you prefer activities with a purpose greater than just personal enjoyment. You consider independence to guide a large part of what you do: you like to set your own goals to decide how to best achieve them.

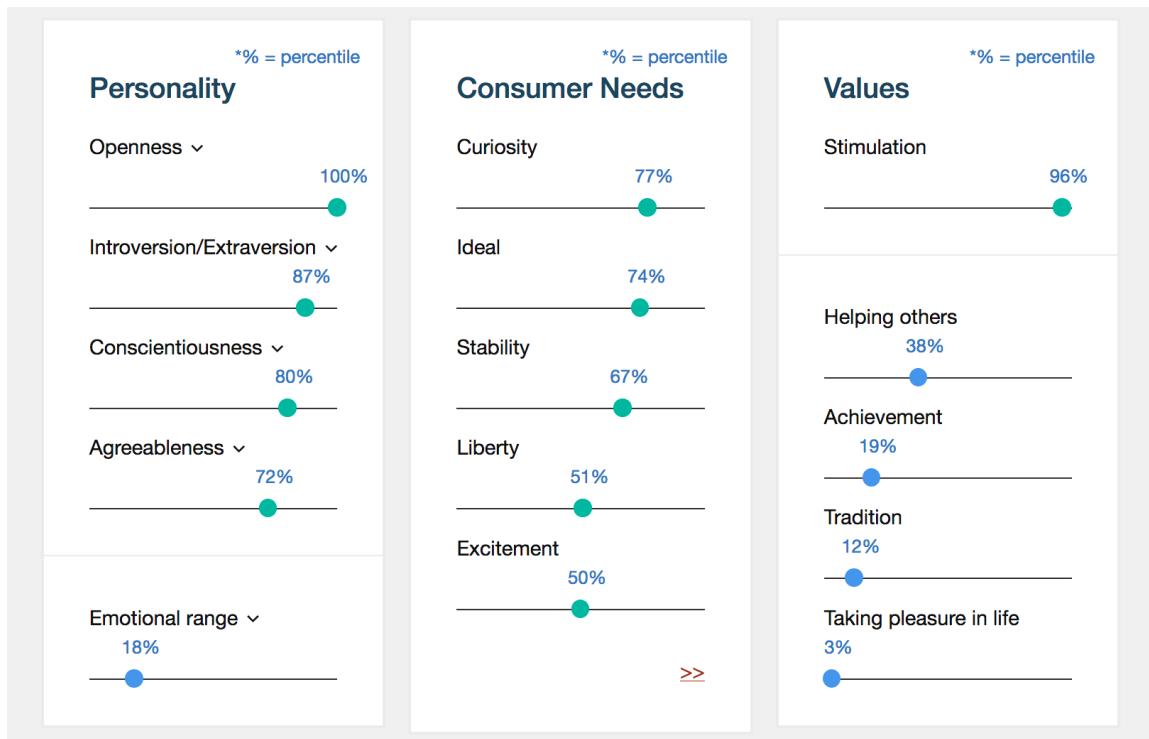
[How did we get this?](#)

### You are likely to\_\_\_\_\_

- be sensitive to ownership cost when buying automobiles
- volunteer for social causes
- read non-fiction books

### You are unlikely to\_\_\_\_\_

- be influenced by product utility when making product purchases
- read entertainment magazines
- like horror movies





## Part 4: Deploy a Cloud Foundry app using the Node-RED Starter Boilerplate

Before we create the Node-RED Starter app we will provision a service to be used within Node-RED.

Go to the Catalog and in the search bar type “Tone Analyzer”.

The screenshot shows the Watson Tone Analyzer service page. At the top, it says "Watson" and "Build cognitive apps that help enhance, scale, and accelerate human expertise." Below that is a circular icon with a speech bubble and a face, followed by the text "Tone Analyzer". It describes the service as using linguistic analysis to detect three types of tones from text. There are two buttons at the bottom: "Lite" (purple) and "IBM" (blue).

Click on Tone Analyzer.

The screenshot shows the "Tone Analyzer" service details page. On the left, there is a sidebar with service information: "People show various tones, such as joy, sadness, anger, and agreeableness, in daily communications. Such tones can impact the effectiveness of communication in different contexts. Tone Analyzer leverages cognitive linguistic analysis to identify a variety of tones at both the sentence and document level. This insight can then be used to refine and improve communications. It detects three types of tones, including emotion (anger, disgust, fear, joy and sadness), social propensities (openness, conscientiousness, extroversion, agreeableness, and emotional range), and language styles (analytical, confident and tentative) from text." Below this are buttons for "Lite" and "IBM", and links to "View Docs", "AUTHOR IBM", "PUBLISHED 12/12/2017", "TYPE Service", and "LOCATION Sydney, Germany, United Kingdom, US South".  
On the right, there are configuration fields: "Service name: Tone Analyzer-4k", "Choose a region/location to deploy in: US South", "Choose an organization: erika.bratschun@ibm.com", and "Choose a space: ChatBot".  
Below these is a "Pricing Plans" section. It shows a table with three rows:

PLAN	FEATURES	PRICING
Lite	2,500 API Calls per Month <small>The Lite plan gets you started with 2,500 API calls per month at no cost. Lite plan services are deleted after 30 days of inactivity.</small>	Free
Standard	First 1000 API calls each month are free	
Premium	Premium Plans offer developers and organizations a single tenant instance of one or more Watson services for better isolation and security. These plans offer compute-level isolation on the existing shared platform, as well as end-to-end encrypted data while in transit and at rest. <small>For more information, or to purchase a premium plan, visit: <a href="https://ibm.biz/contact-wdc-premium">https://ibm.biz/contact-wdc-premium</a></small>	

At the bottom, there are links for "Need Help? Contact IBM Cloud Sales" and "Estimate Monthly Cost Cost Calculator", and a large blue "Create" button which is circled in red.

Click “Create”.



Now we will create our **Node-RED Starter** app.

Return to the Catalog, and in the search bar, type “Node-Red”.

Node-RED Starter falls under the Boilerplates section of the catalog.

Node-RED Starter provides a flow editor to make it easy to wire devices together, APIs, and online services using the wide range of nodes available in the palette. The boilerplate provided offers a quick start to application development.

Click on “Node-RED Starter”.

Fill in the required categories (once you type in an app name, it automatically becomes the host name as well).

Create a Cloud Foundry App

**Node-RED Starter**

This application demonstrates how to run the Node-RED open-source project within IBM Bluemix.

**Lite** **Community**

[View Docs](#)

VERSION 0.7.0  
TYPE Boilerplate  
REGION US South, Germany, United Kingdom, Sydney

**App name:**

**Host name:**  **Domain:** mybluemix.net

**Choose a region/location to deploy in:** US South **Choose an organization:** erika.bratschun@ibm.com **Choose a space:** dev

**Selected Plan:**

**SDK for Node.js™**  **Cloudant NoSQL DB**

SDK for Node.js™ Cloudant NoSQL DB

Need Help? [Contact IBM Cloud Sales](#) [Estimate Monthly Cost](#) [Cost Calculator](#) [Create](#)

Click “Create”.

The app will take a few minutes to start, as indicated by the icon next to the apps name.

Before we can add service to the flow, we need to make sure they are connected.



Click “Connections”.

The screenshot shows the IBM Cloud Cloud Foundry apps interface. On the left, a sidebar menu includes 'Getting started', 'Overview' (selected), 'Runtime' (circled in red), 'Logs', 'Connections' (circled in red), 'Monitoring', and 'API Management'. The main panel displays the 'NRWCWP' application status as 'Running' with a green dot. Below it, Org: erika.bratschun@ibm.com, Location: US South, and Space: dev are listed. The 'Runtime' section shows a buildpack icon for 'Node-RED Starter', 1 instance running at 100% health, 256 MB memory per instance, and a total allocation of 256 MB. A 'Routes' button and other navigation icons are at the top right.

Click “Create Connection”.

The screenshot shows a 'Create connection' page. At the top, there's a search bar labeled 'Filter items' and a blue 'Create connection' button with a '+' icon, which is circled in red. Below the search bar, there are dropdowns for 'Items per page' (set to 10) and '1 of 1 pages'. The main area is a table with columns 'CONNECTION NAME' and 'TYPE'. It lists one item: 'NRWCWP-cloudantNoSQLDB' of type 'Cloudant NoSQL DB'. There are also small icons for edit and delete.

A list of all your running application that can be connected will appear.

Hover over Tone Analyzer and click “Connect”.

The screenshot shows a list of services. At the top, there are dropdowns for 'Items per page' (set to 10) and '1 of 1 pages'. The table has columns 'SERVICES', 'RESOURCE GROUP', 'PLAN', and 'SERVICE OFFERING'. It lists four services: 'Cloud Object Storage-g8' (Resource Group default, Lite, Cloud Object Storage), 'Conversation-9d' (Resource Group --, Lite, Conversation), 'Personality Insights-k2' (Resource Group --, Lite, Personality Insights), and 'Tone Analyzer-rk' (Resource Group --, Lite, Tone Analyzer). To the right of the 'Tone Analyzer-rk' row is a blue 'Connect' button.

If a message pops up that asks you to restage app, click “Restage”.

Click “Visit App URL”.



The screenshot shows the IBM Cloud dashboard under the 'Cloud Foundry apps' section. A sidebar on the left has 'Getting started' selected. The main area displays an app named 'TesterAppForDemo' which is currently 'Starting'. Below the app name are 'Org: erika.bratschun@ibm.com', 'Location: US South', and 'Space: dev'. To the right of the app details is a 'Routes' dropdown. At the bottom, there's a section titled 'Start coding with Node-RED' with a note: 'Last Updated: 2017-06-15'. A callout below says: '① After your application has started, click on the Routes URL or enter the following URL in a browser:' followed by a URL.

When you open your Node-RED app for the first time you will be prompted with options to secure the editor, etc. This username and password are completely independent of anything else. You will have to create them. Click “Next” through the screens then click “Finish”.

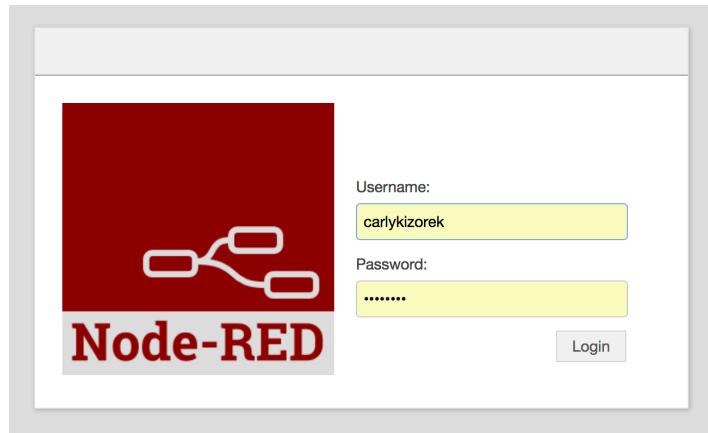
## Applying your settings and starting Node-RED



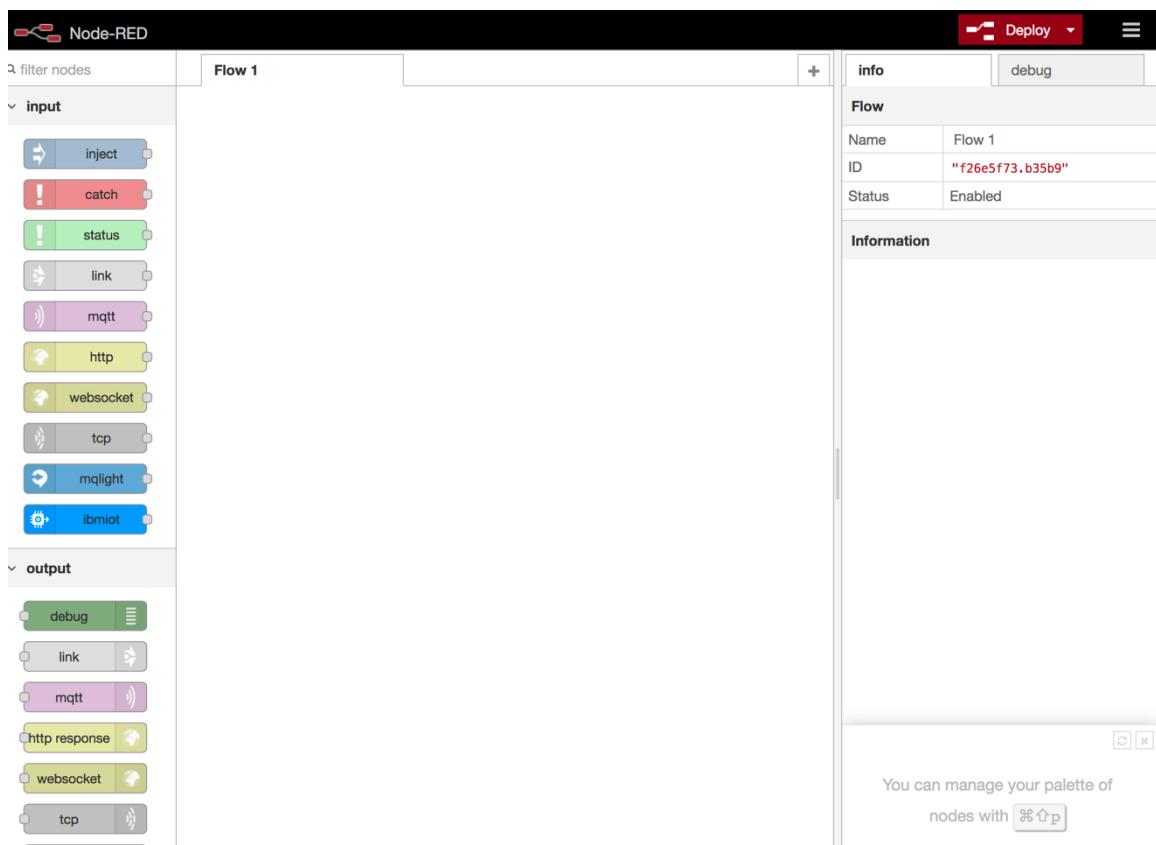
Click on “Go to your Node-RED flow editor”.

The screenshot shows the Node-RED start page on IBM Bluemix. At the top, it says 'Node-RED on IBM Bluemix'. The main title is 'Node-RED' with the subtitle 'Flow-based programming for the Internet of Things'. Below this, there's a description: 'Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.' Another text block says: 'This instance is running as an IBM Bluemix application, giving it access to the wide range of services available on the platform.' At the bottom, there's a link 'Learn how to customise Node-RED' and a circled button labeled 'Go to your Node-RED flow editor'.

If you secured the editor with a username and password you will be brought to the login screen.



When you open the flow, you can see on the left all the nodes available in the palette that can contribute to a flow.



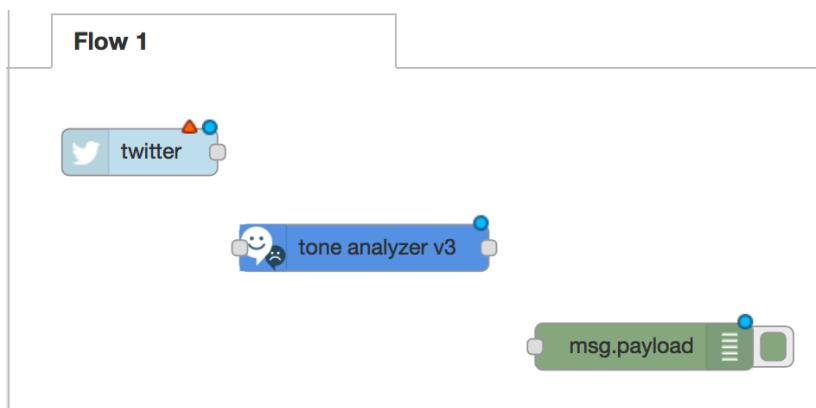
From the palette on the left drag-and-drop the following three nodes onto the canvas: "twitter" in (social category), "tone analyzer v3" (IBM Watson category), and debug (output category).



IBM Cloud



This is what your flow should look like.



Double click the twitter node. Add your twitter credentials by clicking the pencil icon to the right of Twitter ID field.



Edit twitter in node

Delete Cancel Done

node properties

Twitter ID: Add new twitter-credentials... (button circled in red)

Search: all public tweets

for: comma-separated words, @ids, #tags

Name: Name

Tip: Use commas without spaces between multiple search terms.  
Comma = OR, Space = AND.  
The Twitter API WILL NOT deliver 100% of all tweets.  
Tweets of who you follow will include their retweets and favourites.

Leave for blank to set using msg.payload.

Once you click that you will be prompted with this screen. Click "Click here to authenticate with Twitter"

twitter in > Add new twitter-credentials config node

Cancel Add

Click here to authenticate with Twitter. (button circled in red)

You will be redirected to Twitter to confirm the authorization:

Open a new tab in your browser and return to Tone Analyzer in IBM Cloud.

Click "Connections".



Getting started  
Manage  
Service credentials  
Plan  
**Connections**

Watson /  
 Tone Analyzer-rk  
Location: US South Org: erika.bratschun@ibm.com Space: dev

**Tone Analyzer**  
Helps users understand the tones  
that are present in text

Developer  
resources:  
• Getting started tutorial  
• Demo

Click “Create Connection”.



Select your Cloud Foundry application (Node.js generated from Node-RED) and click “Connect”. Your application will now show up as a connected application

Return to Node-RED flow.

Double click on the **Tone Analyzer** node.

Make your selections for each of the properties match those in the photo below.

▼ node properties

🏷 Name	Tone Analyzer
📝 Method:	General Tone
⌚ version_date:	Dominant Tone
💬 Sentences	True
.ContentType	Text
🗣 Input Text	English

Before exiting the Tone Analyzer, click on “Port Labels”, and copy “version=2016-05-19” into Inputs



▼ port labels

Inputs

1. version=2016-05-19 x

Outputs

1. none x

Now click “Done”.

Double click on the **debug node**

Change the Output to “complete msg object”.

▼ node properties

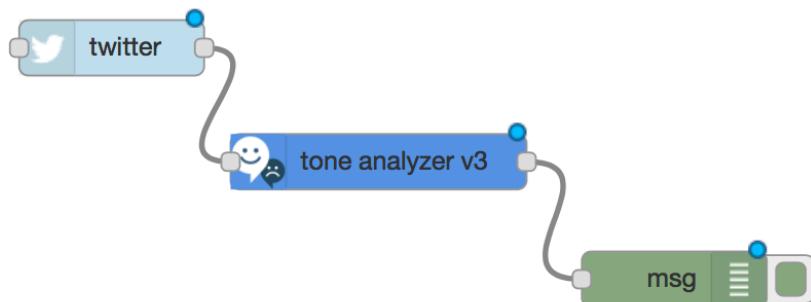
Output complete msg object

to debug tab

Name Tweet/Tone output

Click “Done”

Connect the nodes by clicking on the dots and drag it to the input/output of the other.



Click “Deploy” in the top right corner.

To view the output, click the debug tab, found right under the deploy button.



Tweets will begin to filter in based on the tag indicated in the twitter node. These tweets are coming in live, so as the tag is mentioned, the tweet will filter into the debug section.

To view the tweet and tone, click on one of the tweets and follow the arrow flow shown in the example below

```
1/12/2018, 10:06:38 AM  node: Tweet/Tone output
tweets/xiuchensism : msg : Object
  ▶ object
    topic: "tweets/xiuchensism"
    payload: "RT @Olympics: True
sportsmanship. ♥ https://t.co
/09oCsSksvq"
    lang: "en"
  ▶ tweet: object
  ▶ location: object
  _msgid: "faa9fbda.0460a8"
  ▶ response: object
    ▶ document_tone: object
      ▶ tones: array[2]
        ▶ 0: object
          score: 0.862763
          tone_id: "joy"
          tone_name: "Joy"
        ▶ 1: object
          score: 0.986725
          tone_id: "confident"
          tone_name: "Confident"
    ▶ sentences_tone: array[2]
```

Depending on the tweet, you can see that this example shows 2 tones: joy and confidence.

Test out the tone analyzer with other tags!!



## Part 5: Deploying an Application to the Cloud using Continuous Delivery

In this example, you will deploy a Node.js application in an existing GitHub repository to the IBM Cloud. This repository has a **Deploy to IBM Cloud** button that automatically creates a Continuous Delivery toolchain, forks a copy of the application to your own code repository, and runs the Delivery Pipeline in the toolchain to deploy the application.

1. Open the sample application GitHub repository at <http://bit.ly/2EyeUXh>.
2. Scroll down to the Readme and click the **Deploy to IBM Cloud** button.

Sample Node.js application which uses Bluemix Cloudant NoSQL service

25 commits 1 branch 0 releases 5 contributors Apache-2.0

Branch: master New pull request Create new file Upload files Find file Clone or download

This branch is 2 commits ahead, 1 commit behind IBM-Cloud:master. Pull request Compare

timroster adjust node dependency Latest commit 58a87b2 on Jun 2, 2017

File	Description	Time Ago
.settings	first commit	2 years ago
public	encode attachment urls (#8)	a year ago
routes	first commit	2 years ago
views	light and responsive design	a year ago
.cignore	read VCAP_SERVICES from vcap-local.json locally	a year ago
.gitignore	read VCAP_SERVICES from vcap-local.json locally	a year ago
.jshintrc	first commit	2 years ago
.project	first commit	2 years ago
LICENSE	Create LICENSE	a year ago
README.md	reduce app memory and update dependencies to improve gc	9 months ago
app.js	sanitize output too	a year ago
manifest.yml	reduce app memory and update dependencies to improve gc	9 months ago
package.json	adjust node dependency	9 months ago

README.md

### Node.js Cloudant Sample

This application demonstrates how to use the Bluemix Cloudant NoSQL DB service. It helps users organize their favorite files. The UI talks to a RESTful Express CRUD backend API.

**Deploy to IBM Cloud**

3. The toolchain creation page for your new application is shown. On this page, the tool integrations are shown. The Delivery Pipeline tool is selected, and you can update the proposed name, deployment region, organization, and



space for the app or accept the defaults. For our example, just accept the defaults.

After you click **Deploy**, your app will be deployed to Bluemix.  
Your app's code will be automatically loaded into a Git repo. Each time you commit changes to the repo, they are automatically deployed by using a toolchain that is associated with your app. You can add more tools to the toolchain and share it with your team. [Learn more](#).  
The toolchain uses tools that are part of the Continuous Delivery service. If an instance of that service isn't already in your organization, when you click **Deploy**, it is automatically added at no cost to you. For more information and terms, see the [Bluemix catalog](#).  
Still need to create a project at JazzHub? You can still create a project, but if you do, you must upgrade that project to a toolchain soon.

TEMPLATE INFO  
GIT URL: <https://github.com/ibmecod/nodejs-cloudant>

Tool Integrations

Git Repos and Issue Tracking   Eclipse Orion Web IDE   Delivery Pipeline

The Delivery Pipeline automates continuous deployment.

App name: nodejs-cloudant-20170513212650543

Region: US South (Production)   Organization: timrosv   Space: dev

Deploy

- Under “Tool Integrations” select the icon for **Git Repos and Issue Tracking**. You see a page where you can customize the repository settings for the copy of your application source code. You can leave the default values. This repository is hosted on IBM Cloud using GitLab Community Edition.

Git repos and issue tracking hosted by IBM and built on GitLab Community Edition.

Repository type:

Clone

Clone the repository that is specified in the Source repository URL field.

New repository name:

nodejs-cloudant-20170513212650543

Source repository URL:

<https://github.com/ibmecod/nodejs-cloudant>

Make this repository private

Enable issues

- Click **Deploy**. A confirmation message and a toolchain overview are displayed.



The screenshot shows the IBM Cloud toolchain interface for the app 'nodejs-cloudant-20170513212650543'. The interface is divided into three main sections: THINK, CODE, and DELIVER. In the THINK section, there is an 'Issues' tool with a status of 'Configured'. In the CODE section, there is a 'Git' tool with a status of 'Configured'. In the DELIVER section, there is a 'Delivery Pipeline' tool with a status of 'Configured'. A green banner at the top indicates that the toolchain is ready and provides a quick start guide. A button labeled 'Add a Tool' is located in the top right corner.

6. Click the “**Delivery Pipeline**” icon to monitor the deployment status. When it finishes, the “**Deploy**” stage will show a successful execution.

The screenshot shows the 'Deploy Stage' details page. It indicates that the 'Stage: Build Stage / Job: Build' has passed. The last input was 'Build 1'. Under 'JOBS', there is a successful deployment entry: 'Deploy Passed 2m ago'. The 'LAST EXECUTION RESULT' section shows a successful build for 'nodejs-cloudant-20170513212650543...' with a link to 'View runtime log'. A blue box highlights this result.

7. Click the link for the app to open it in a new tab. This application is a document and image organizer that uses a Cloudant NoSQL database to store files that are uploaded from a web browser.

The screenshot shows the 'Favorites Organizer powered by Cloudant' application interface. The title bar includes the URL 'nodejs-cloudant-20170513212650543-nonremtable-decolouriser.mybluemix.net'. The main screen displays a large blue header with the application's name. Below the header, there is a file upload section with a placeholder 'sample.doc' and a 'Browse...' button. A red box highlights the 'sample Document' text. At the bottom, there is a 'ADD' button and a 'Help' link.



8. The app has been created with a long and random host name. This was chosen based on a property in the manifest.yml file. To change this, navigate back to the application dashboard. Go back to the browser tab with the IBM Cloud dashboard and refresh the page if your new app is not showing. Then, click on the row for the app to open the app dashboard.

NAME	ROUTE	MEMORY (MB)	INSTANCES	RUNNING
nodejs-cloudant-20170513212650543	nodejs-cloudant-20170513212650543-nonremittable-decol...	192	1	1

9. Click “**Routes**” and select “**Edit routes**”.

10. Customize the name of the route. For example, call it “secondapp” or “favapp” with your initials and date added to make it unique. Click “**Save**”, and when you are prompted to remove the old route, confirm the removal. The app will take a moment to restart. You can confirm that the new URL is active by clicking the new name from the Routes drop-down menu.

11. When you’re finished experimenting with the app, delete it by clicking the three vertical dots next to the app **STOP** button and selecting **Delete**. Confirm the removal of the database from the **Services** tab and the hostname from the **Routes** tab.



## Conclusion

Now that you have completed this lab, you should be able to:

- Have a basic understanding of cloud computing
- Navigate IBM Cloud Platform
- Launch and use services on IBM Cloud
- Create and manage cloud-native applications using the IBM Cloud UI, as well as locally install tooling