



CLOUD BASICS

Navigating IBM Cloud



IBM Cloud



IBM



Notices and Disclaimers

© Copyright IBM Corporation 2018.

The information contained in these materials is provided for informational purposes only, and is provided AS IS without warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, these materials. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software. References in these materials to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates. This information is based on current IBM product plans and strategy, which are subject to change by IBM without notice. Product release dates and/or capabilities referenced in these materials may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

IBM, the IBM logo and ibm.com are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml

Other company, product and service names may be trademarks or service marks of others



Table of Contents

Prerequisites	4
Purpose of this Lab	4
Part 1: Signing up for IBM Cloud.....	5
Part 2: Navigating the IBM Cloud Platform	6
Part 3: Launching a Watson Service.....	10
Part 4: Deploy a Cloud Foundry app using the Node-RED Starter Boilerplate	15
Part 5: Deploying an Application to the Cloud using Continuous Delivery.....	25
Conclusion.....	30



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 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 IBM Cloud is the cloud for the enterprise. Yours.

[Sign up](#) [Learn about IBM Cloud Private](#)

IBM Bluemix is now IBM Cloud >

Cloud in the News [With Spring and IBM Software](#) Read more → [IBM: Defining bare metal since 2005.](#) Read more → [IBM give](#)

Fill in the required boxes.

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
Use Lite plan pricing or try something new with \$200 in credit available for 1 month upon upgrade.

Ready to get started? Sign up today!

Email*

First Name*

Last Name*

Company

Country or Region*

Phone Number*

Password*

Keep me informed of products, services, and offerings from IBM companies worldwide.
 [Learn more](#)

By clicking Create Account, I accept the [IBM Cloud privacy policy](#) and [IBM Cloud terms](#).

[Create Account](#)

Click **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 with a modal window titled "Introducing resource groups". The modal contains a simplified version of the dashboard interface, showing a single Cloud Foundry App named "boilerplate-nick". The modal has a "Next" button at the bottom right. The main dashboard background shows the standard IBM Cloud navigation bar and resource list.



We are now looking at the IBM Cloud Dashboard. Click on the **Catalog** button found in the upper right hand corner of the screen.

The screenshot shows the IBM Cloud Dashboard. At the top, there's a navigation bar with 'IBM Cloud' and various links like Catalog, Docs, Support, Manage, and a user icon. Below the navigation bar, the main area is titled 'Dashboard'. It shows resource group details (All Resources, US South, gybumb7147@msn.com, dev), a search bar, and a 'Create resource' button. A large central area is labeled 'Dashboard' with a placeholder message: '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.' A blue 'Explore our Offerings' button is at the bottom. The 'Catalog' link in the top navigation bar is circled in red.

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

The screenshot shows the IBM Cloud Catalog page. At the top, a banner says '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.' Below the banner, there's a search bar and a 'Filter' button. On the left, there's a sidebar with 'All Categories' and sections for 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), and a 'Compute' section. The main content area is divided into sections: 'Infrastructure' (Compute, Bare Metal Server, Virtual Server), 'Storage' (Block Storage, File Storage, Object Storage), and 'Network' (Content Delivery Network, Direct Link Dedicated, Direct Link Dedicated Hosting). Each service listing includes a brief description and an 'IBM' badge.



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 Node.js .NET Core Swift XPages

Show more

FEEDBACK

IBM Cloud

What is IBM Cloud?

Managing Your Account

Managing Identity and Access

CLI and Dev Tools

Service Availability

Managing Apps

Monitoring and Logging

Managing APIs

Managing Billing and Usage

Managing Infrastructure Resources

Troubleshooting

IBM Cloud Security

Hybrid

Notices and Terms of Use

Glossary

What's New?

Solution Tutorials

Architecture Center



Click on **Support**.

Catalog Docs Support Manage

What's New
Support Center
Add Ticket
View Tickets
Status

Click on **Manage**.

Screenshot 1: Catalog Docs Support **Manage** (Manage is highlighted)

- < Account
- < Billing and Usage
- < Security

Screenshot 2: Catalog Docs Support **Manage** (Manage is highlighted)

- Users < Account
- Cloud Foundry Orgs < Billing and Usage
- Resource Groups < Security
- Platform Notifications

Screenshot 3: Catalog Docs Support **Manage** (Manage is highlighted)

- < Account
- Billing < Billing and Usage
- Usage < Security

Screenshot 4: Catalog Docs Support **Manage** (Manage is highlighted)

- < Account
- < Billing and Usage
- Identity and Access < Security
- Platform API Keys



Part 3: Launching a Watson Service

Let's create our own service.

Click on **Catalog** on the navigation bar

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 menu, search, and user profile, followed by the 'IBM Cloud' logo. The main area has a search bar containing 'Personality Insights'. On the left, there is a sidebar with categories like Infrastructure, Platform, and Watson. Under the Watson category, there is a sub-section for Personality Insights, which is highlighted with a red circle. This section contains two items: 'Personality Insights Java Web Starter' and 'Personality Insights Node.js Web Starter'. Below these, there is another section for Watson, which includes a sub-section for Personality Insights. At the bottom right, there is a 'Looking for more?' section with 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

[View Docs](#)

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

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.

Intended Use
Developer resources:
• Documentation
• Demo

Estimated monthly cost: \$0.00

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 Watson Personality Insights service page. The left sidebar includes links for Getting started, Manage, 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, a "Getting started tutorial" is listed, last updated on 2017-10-18, with a link to "Edit in GitHub". A detailed description follows, explaining the service's purpose of deriving insights from social media, enterprise data, or digital communications. The "Before you begin" section lists steps: creating an instance and getting credentials. A note states that if the user is seeing this, they have already created the instance and obtained credentials.

Now click on **Manage**. Then click on **Demo**.

The screenshot shows the same service page as above, but with specific sections highlighted. The "Manage" link in the sidebar and the "Demo" link in the "Developer resources" section of the main content are both circled in red. The "Developer resources" section also includes a "Getting started tutorial" link.

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](#)

Tweets and Replies Body of Text Your Twitter Personality

Choose: @Oprah (EN) @KingJames (EN)

@DonFranciscoTV (ES) @pontifex_es (ES)

@trikaofficial (AR) @faridyu (JA) @Krungy21 (KO)

Analyze

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.

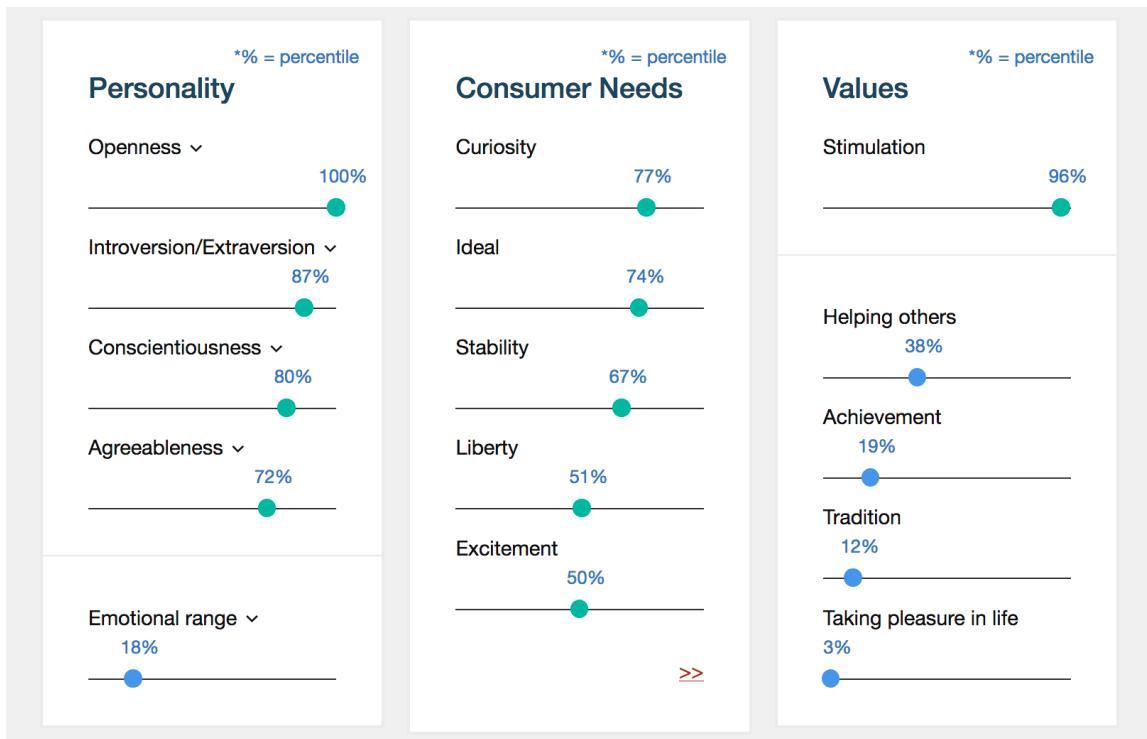
You are likely to_____

- 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

[How did we get this?](#)





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.

1. Create Tone Analyzer service

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 two speech bubbles. To its right, the service name "Tone Analyzer" is displayed, along with the description: "Tone Analyzer uses linguistic analysis to detect three types of tones from". Below this are two buttons: "Lite" (purple) and "IBM" (light blue). The "Lite" button is highlighted.

Click on Tone Analyzer. Give it a name.

The screenshot shows the "Tone Analyzer" service creation page. On the left, there is a detailed description of the service, mentioning that people show various tones like joy, sadness, anger, and agreeableness. It also lists the three types of tones detected by the service. Below this are "View Docs", "AUTHOR IBM", "PUBLISHED 12/12/2017", "TYPE Service", and "LOCATION Sydney, Germany, United Kingdom, US South". On the right, the "Service name:" field is filled with "Tone Analyzer-4K". Under "Choose a region/location to deploy in:", "US South" is selected. In the "Choose an organization:" dropdown, "erika.bratschun@ibm.com" is listed. In the "Choose a space:" dropdown, "ChatBot" is selected. The "Pricing Plans" section shows a table with three rows: "Lite" (selected), "Standard", and "Premium". The "Lite" plan offers 2,500 API calls per month at no cost and is deleted after 30 days of inactivity. The "Standard" plan offers 1,000 API calls per month. The "Premium" plan offers better isolation and security. A red oval highlights the "Create" button at the bottom right of the page.

Click **Create**.



2. Create Node-RED Starter app

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

Default Lite

js Cloudant NoSQL DB

Need Help? Contact IBM Cloud Sales [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.



3. Connect service to Node-RED within IBM Cloud platform

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

Click **Connections**.

The screenshot shows the IBM Cloud Platform interface for the app 'NRWCWP'. The left sidebar has a 'Connections' tab highlighted with a red oval. The main area displays runtime statistics: 1 instance, 256 MB memory per instance, and a total allocation of 256 MB. It also shows the buildpack as 'Node-RED Starter'.

Then click **Create Connection**.

The screenshot shows a list of connections. A new connection is being created, with the 'Create connection' button highlighted with a red oval.

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. The 'Tone Analyzer-rk' service is selected, and its 'Connect' button is highlighted with a red oval.

When the message pops up that asks you to restart app, click **Restart**.



4. Open Node-RED

Once the app has restarted, and is Running, click **Visit App URL**.

The screenshot shows the IBM Cloud dashboard with the 'Cloud Foundry apps' section. On the left, there's a sidebar with 'Getting started', 'Overview' (which is selected and highlighted in blue), 'Runtime', 'Connections', and 'Logs'. The main area displays the app 'WCSworkshopKizorek' with a status badge showing 'js' and 'Running'. Below the badge, it says 'Org: carly.kizorek', 'Location: US South', and 'Space: dev'. To the right of the app name is a blue link labeled 'Visit App URL', which is circled in red.

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 any other credentials so you will have to create them. Click “Next” through the screens then click “Finish”.

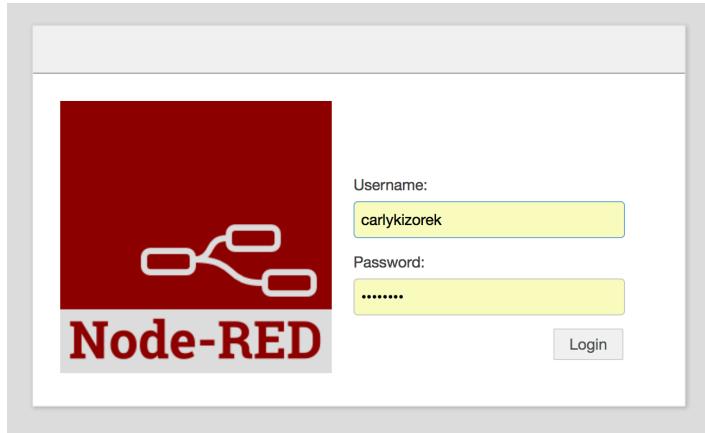
Applying your settings and starting Node-RED



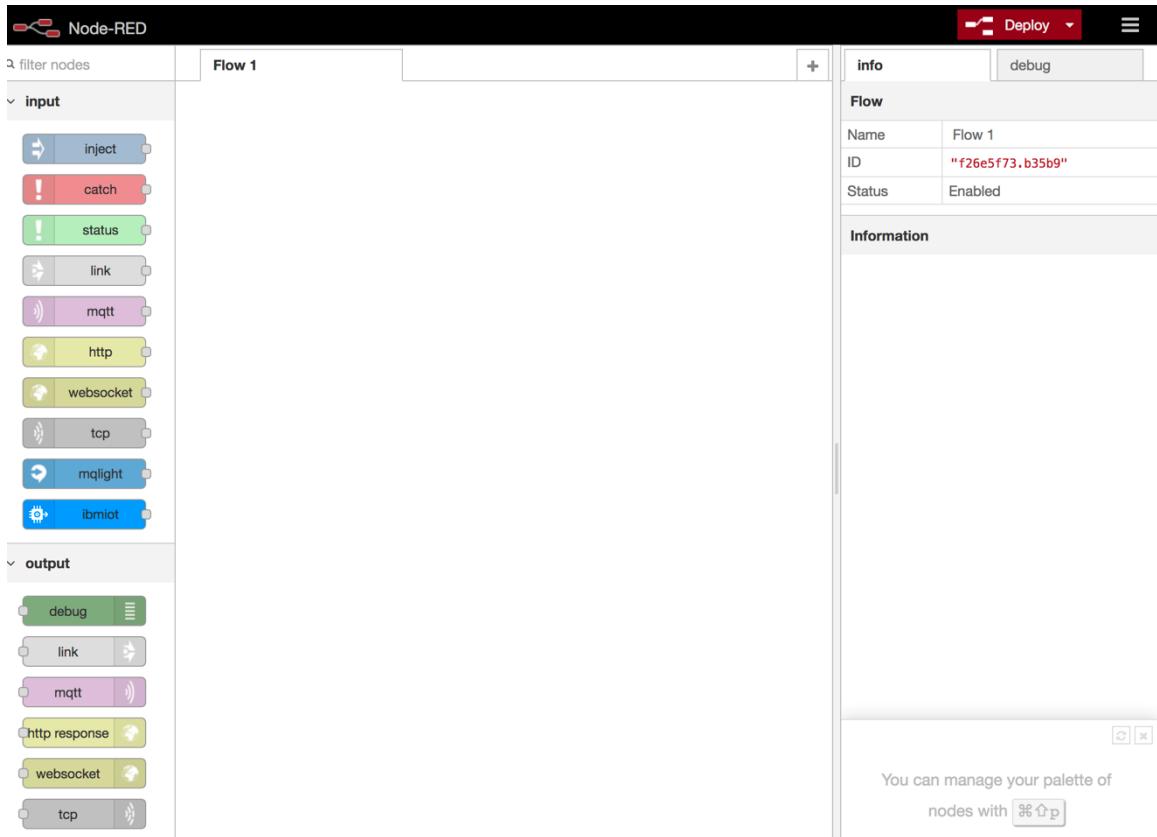
Click on **Go to your Node-RED flow editor**.

The screenshot shows the Node-RED start-up screen. At the top, it says 'Node-RED on IBM Bluemix'. The main area has a red background with the text 'Node-RED' and 'Flow-based programming for the Internet of Things'. Below this, there's a white sidebar with text about Node-RED and its integration with IBM Bluemix. At the bottom right, there's a button labeled 'Go to your Node-RED flow editor' in red text, which is circled in red.

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



When the flow editor opens, on the left you will see the palette which contains nodes available that can contribute to a flow.

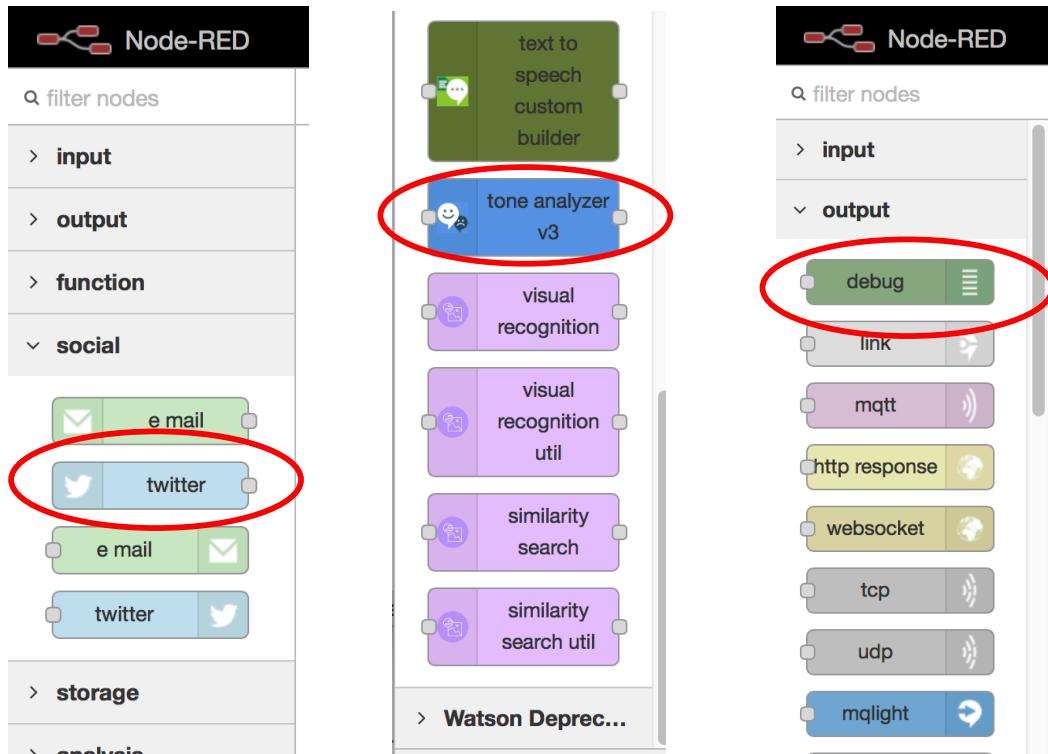




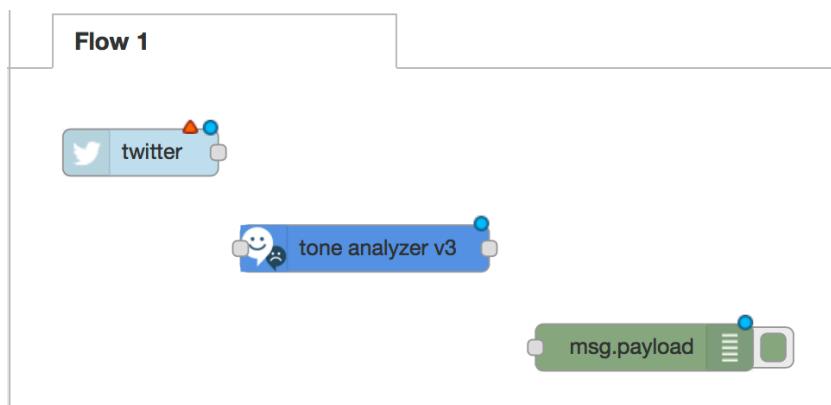
5. Create flow within Node-RED

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).



This is what your flow should look like.





5.1 Twitter node

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: 

Search:

for:

Click here to authenticate with Twitter will redirect you to Twitter to confirm the authorization.

twitter in > Add new twitter-credentials config node

Cancel Add

Click here to authenticate with Twitter.

Once this is complete, return to the **twitter node**.

In the **for** field, enter criteria for tweets that you'd like to see Tone Analyzer performed on. For this lab we will be looking at tweets containing "#Olympics".

Edit twitter in node

Delete Cancel Done

node properties

Twitter ID: 

Search:

for: 

Name:

Now click **Done**.



5.2 Tone Analyzer

Double click the **Tone Analyzer v3** node.

For each property in this dialog, modify yours such that they match those in the photo below.

Edit tone analyzer v3 node

Delete Cancel Done

node properties

Name: Tone Analyzer

Method: General Tone

version_date: Dominant Tone

Sentences: True

Content type: Text

Input Text
Language: English

node settings

Before exiting the Tone Analyzer node, select **node settings**. In the **Inputs** field type the following: `version=2016-05-19`

Edit tone analyzer v3 node

Delete Cancel Done

node properties

node settings

Inputs
1. version=2016-05-19

Outputs
1. none

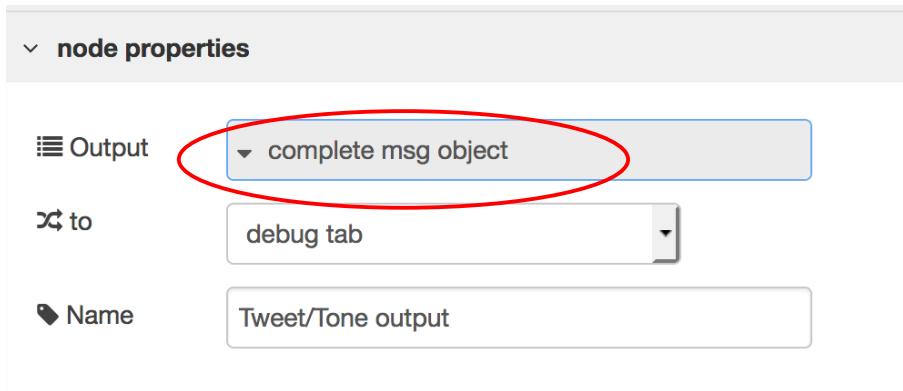
Now click **Done**.



5.3 Debug node

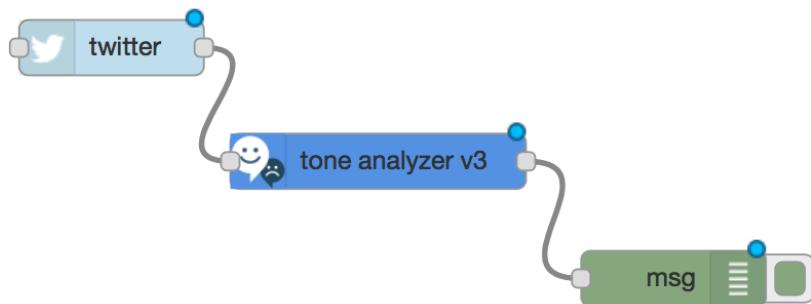
Double click on the **debug node**.

Change the Output to `complete msg object`.



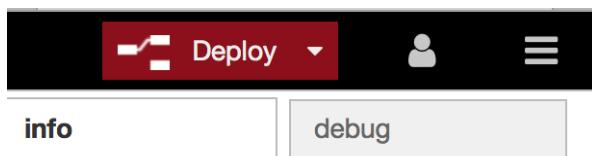
Now click **Done**.

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



6. Deploy

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 button.

The screenshot shows a GitHub repository page for a 'Sample Node.js application which uses Bluemix Cloudant NoSQL service'. The repository has 25 commits, 1 branch, 0 releases, 5 contributors, and is licensed under Apache-2.0. A 'Deploy to IBM Cloud' button is visible in the top right corner of the main content area, which is circled in red.

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

.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 Deliver 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/t...>

App name: nodejs-cloudant-20170513212650543

Region: US South (Production)

Organization: timrossv

Space: dev

Deploy

4. 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



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

nodejs-cloudant-20170513212650543

View app ⋮

Your toolchain is ready! Quick start: This toolchain was created for your app. To watch the pipeline deploy your app, click **Delivery Pipeline**. After the app is deployed, you can see it running by clicking **View app**.

THINK CODE DELIVER Add a Tool +

Issues Git Delivery Pipeline

Eclipse Orion Web IDE

Build 1

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

Deploy Stage ⏪ ⚙

STAGE PASSED

LAST INPUT Stage: Build Stage / Job: Build

Build 1 ⏪

JOBS [View logs and history](#)

Deploy Passed 2m ago

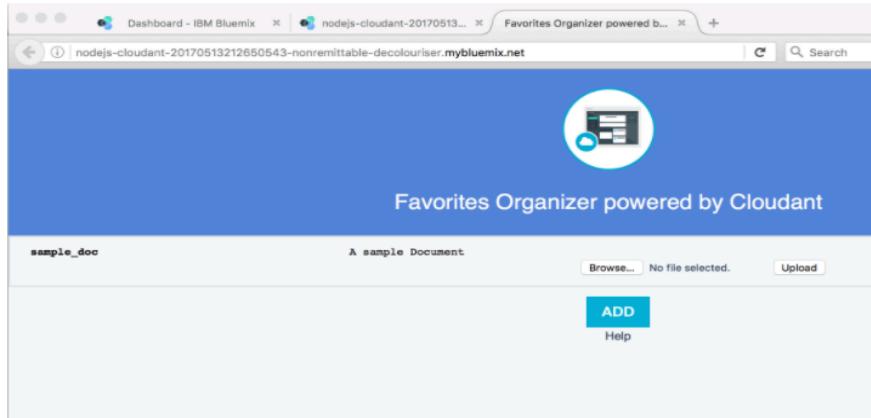
LAST EXECUTION RESULT

nodejs-cloudant-20170513212650543... [View runtime log](#)

Build 1 ⏪



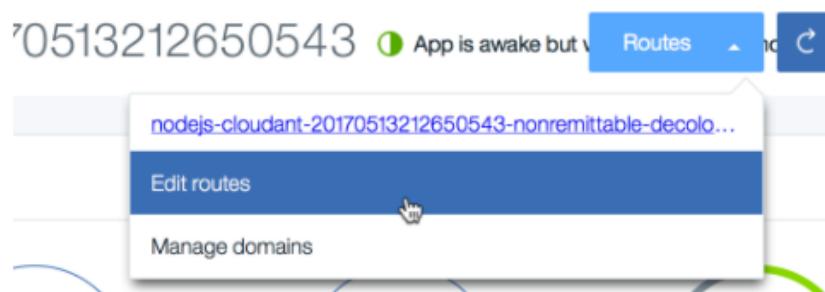
7. Click the link for the app to open it in a new tab. This application is a document and image organizer that uses a Cloudant NoSQL database to store files that are uploaded from a web browser.



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.

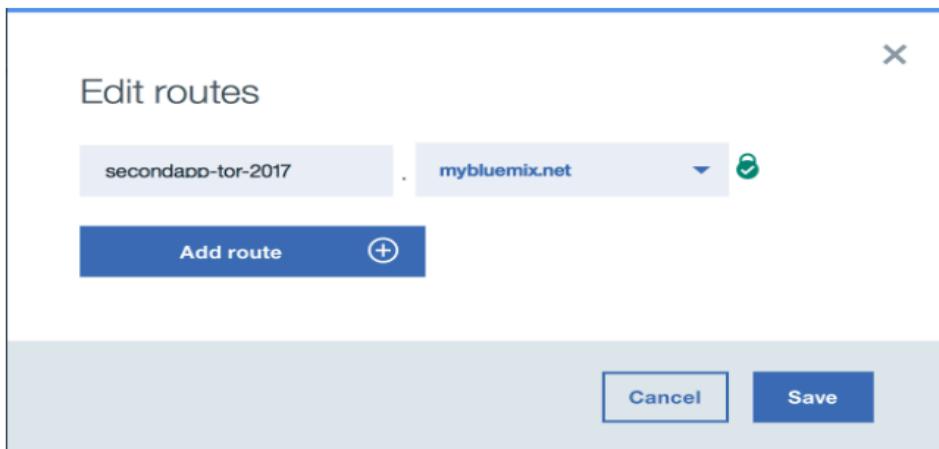
NAME	ROUTE	MEMORY (MB)	INSTANCES	RUNNING
nodejs-cloudant-20170513212650543	nodejs-cloudant-20170513212650543-nor	192	1	1

9. Click **Routes** then 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,