

PROJECT DEVELOPMENT PHASE

SPRINT 1- CREATION AND CONFIGURATION OF IBM CLOUD SERVICES

STEP 1: CREATING IBM WATSON PLATFORM AND IOT DEVICE

The screenshot shows the IBM Watson IoT Platform console. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is labeled 'Search by Device ID'. A table lists devices, with one device selected (ID 123, Status: Disconnected, Device Type: Ultrasonic, Class ID: Device, Date Added: Oct 20, 2022 6:45 PM). A sidebar on the left contains icons for various IoT functions. A modal window displays the details for the selected device.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123	Disconnected	Ultrasonic	Device	Oct 20, 2022 6:45 PM	

Identity	Device Information	Recent Events	State	Logs
Device ID	123			
Device Type	Ultrasonic			
Date Added	Oct 20, 2022 6:45 PM			
Added By	nharinandini@gmail.com			
Connection Status	Disconnected			

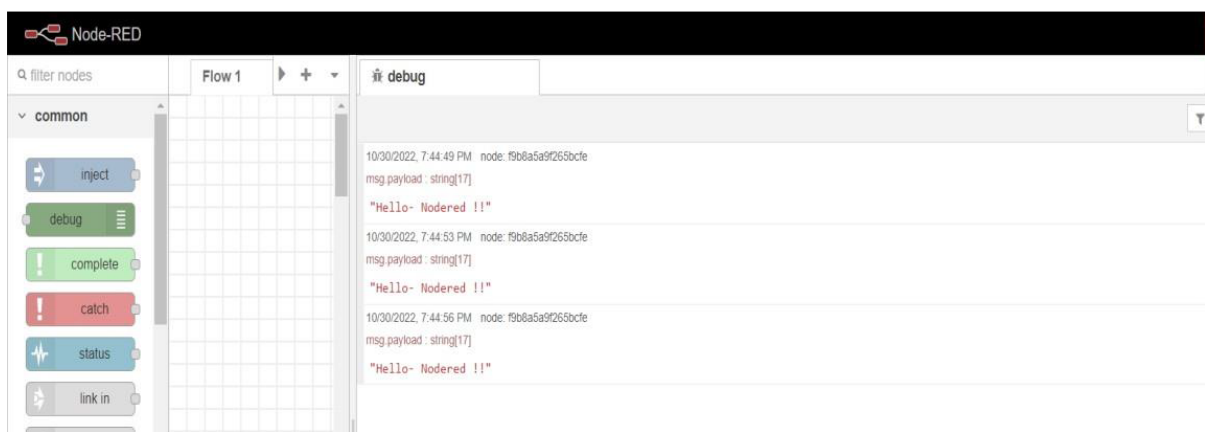
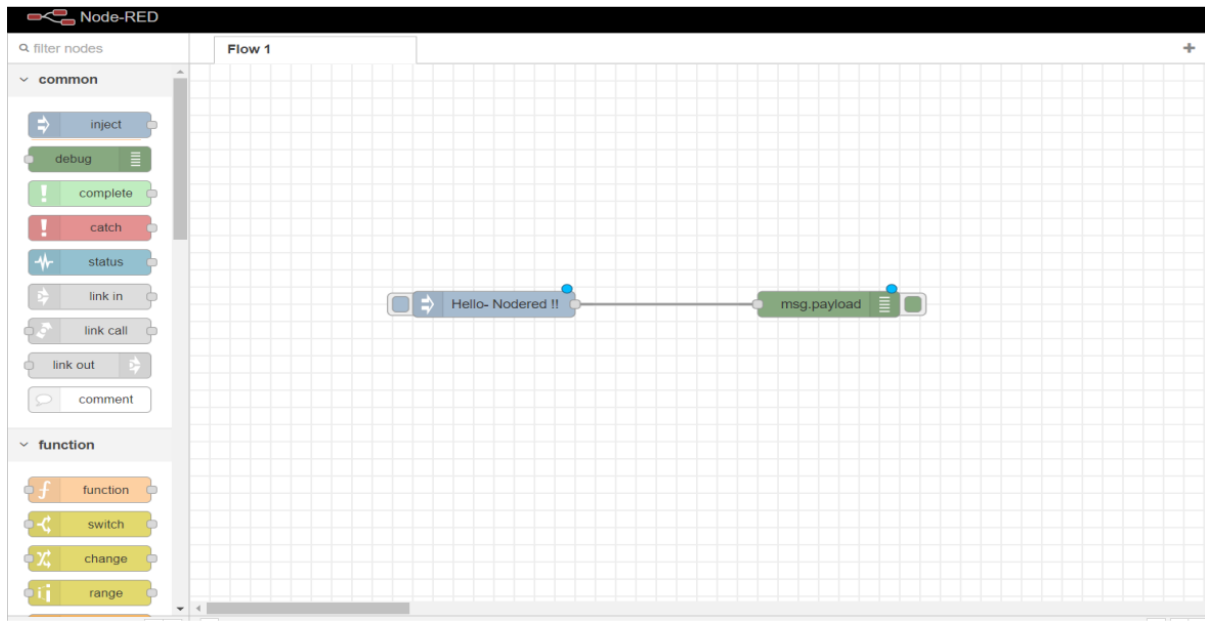
Items per page 50 | 1-1 of 1 item

The screenshot shows the IBM Watson IoT Platform console with the 'Recent Events' tab selected. It displays a table of events received from the device. A status message at the bottom indicates '1 Simulation running'.

Event	Value	Format	Last Received
event_1	{"randomNumber":37,"sampleObject":{"xcoord":...	json	a few seconds ago
event_1	{"randomNumber":27,"sampleObject":{"xcoord":...	json	a few seconds ago
event_1	{"randomNumber":44,"sampleObject":{"xcoord":...	json	a minute ago
event_1	{"randomNumber":15,"sampleObject":{"xcoord":...	json	a minute ago
event_1	{"randomNumber":8,"sampleObject":{"xcoord":3...	json	a minute ago

1 Simulation running




STEP-2: CREATING NODE-RED SERVICE




Resource list							Create resource +
Name	Group	Location	Product	Status	Tags		
Filter by name or IP address...							Filter by group or org... Filter... Filter... Filter... Filter...
Compute (0)							
Containers (0)							
Networking (0)							
Storage (1+)							
AI / Machine Learning (0)							
Analytics (0)							
Blockchain (0)							
Databases (1+)							
Developer tools (2)							
Node RED JPUTP 2022-10-29	Default	Global	Cloud Application	—	—		
Node RED TMJXE 2022-10-20	Default	Global	Cloud Application	—	—		
Logging and monitoring (0)							

STEP-3: CREATING DATABASE IN CLOUDANT DB

The screenshot shows the Cloudant Databases dashboard. At the top, there's a 'Databases' header with a 'Database name' dropdown, a 'Create Database' button, and icons for JSON, a book, and a bell. Below the header, there's a section titled 'Your Databases' which contains a table listing the databases.

Name	Size	# of Docs	Partitioned	Actions
trial	21 bytes	1	No	  

The screenshot shows the Cloudant document editor for the 'trial' database. The left sidebar has a 'trial' header and a menu with 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area has a 'Document ID' dropdown, 'Options', 'JSON', and a bell icon. Below this is a 'Create Document' button. The document is displayed in a table view with columns 'id', 'key', and 'value'.

id	key	value
 f3dd501328da85ca16e6868e6bb62b66	f3dd501328da85ca16e6868e6bb62b66	{ "rev": "1-b2d28daf175d6d10672ad0b38670..." }

The screenshot shows the Cloudant document editor for the 'trial' database, displaying the JSON content of a document. The top bar has a 'trial' header, a document ID 'f3dd501328da85ca16e6868e6bb62b66', and icons for JSON, a book, and a bell. Below the header is a 'Save Changes' button with a 'Cancel' link, and buttons for 'Upload Attachment', 'Clone Document', and 'Delete'. The main area shows the JSON content in a text editor.

```
1 {
2   "_id": "f3dd501328da85ca16e6868e6bb62b66",
3   "_rev": "1-b2d28daf175d6d10672ad0b38670a64c",
4   "new": "Harinandini"
5 }
```

STEP-4: CREATING A CLOUD OBJECT STORAGE SERVICE

Cloud Object Storage

Storage instances

Cloud Object Storage-a4

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Buckets

Buckets serve as containers for objects, and can be individually configured in terms of their location, resiliency, billing rates, security, and object lifecycle rules.

Q Search

🔍 ⚙️

Create bucket +

Name	Public access ⓘ	Location ⓘ	Storage class	Created	
trials	No	jp-tok	Standard	2022-10-30 7:10 PM	⋮

Cloud Object Storage

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Cloud Object Storage-a4

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Plan

Storage / Cloud Object Storage-a4 /

trials

Transfers Details Actions... ⌵

Objects

Configuration

Permissions

If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads [Learn more](#)

Q Prefix filter

🔄 📁 📄

Upload

<input type="checkbox"/>	Object name	Archived ⓘ	Size	Last modified	
<input type="checkbox"/>	FAO r...ice.pdf		4.0 MB	2022-10-30 7:15 PM	⋮

Drag and drop files (objects) here or click to upload

Cloud Object Storage

Storage instances

Cloud Object Storage-a4

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Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Search credentials...

New credential

Key name	Date created
Service credentials-1	2022-10-30 7:18 PM

```
{  "apikey": "9r1tyv5ogsE1XCqheTmjMviIWO-9lw13eITH_H2okSKU",  "endpoints": "https://control.cloud-object-storage.cloud.ibm.com/v2/endpoints",  "iam_apikey_description": "Auto-generated for key crn:v1:bluemix:public:cloud-object-storage:global:a/a1da72822d9f4fb498b5bb3d0e3ab40a:8dd1ef82-d976-4153-b070-7ac9c4e61a5c:resource-key:0e2ba2e6-c966-4ff3-98ba-6211d29de258",  "iam_apikey_name": "Service credentials-1",  "iam_role_crn": "crn:v1:bluemix:public:iam:::serviceRole:Writer",  "iam_serviceid_crn": "crn:v1:bluemix:public:iam-identity::a/a1da72822d9f4fb498b5bb3d0e3ab40a::serviceid:ServiceId-28f3a4d0-b86b-4521-917a-5d336f6f9d28",  "resource_instance_id": "crn:v1:bluemix:public:cloud-object-storage:global:a/a1da72822d9f4fb498b5bb3d0e3ab40a:8dd1ef82-d976-4153-b070-7ac9c4e61a5c:"}
```