

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 present with the text 'Search by Device ID'. The main table lists devices, with one device (ID 123) shown in a 'Disconnected' state. The device details panel is open, displaying the following information:

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			

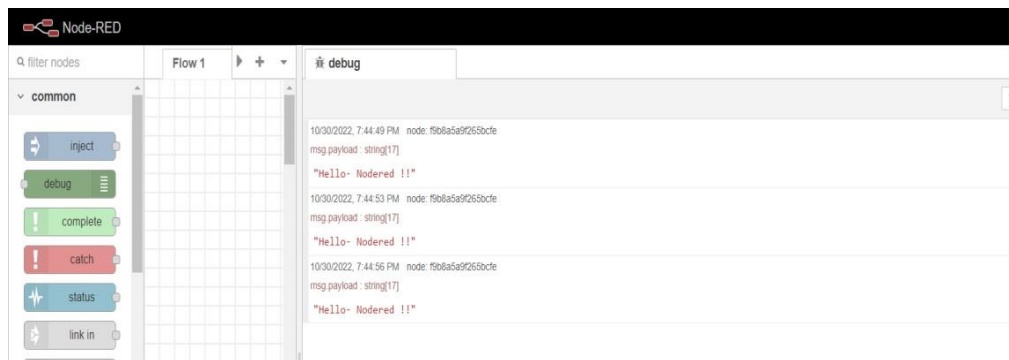
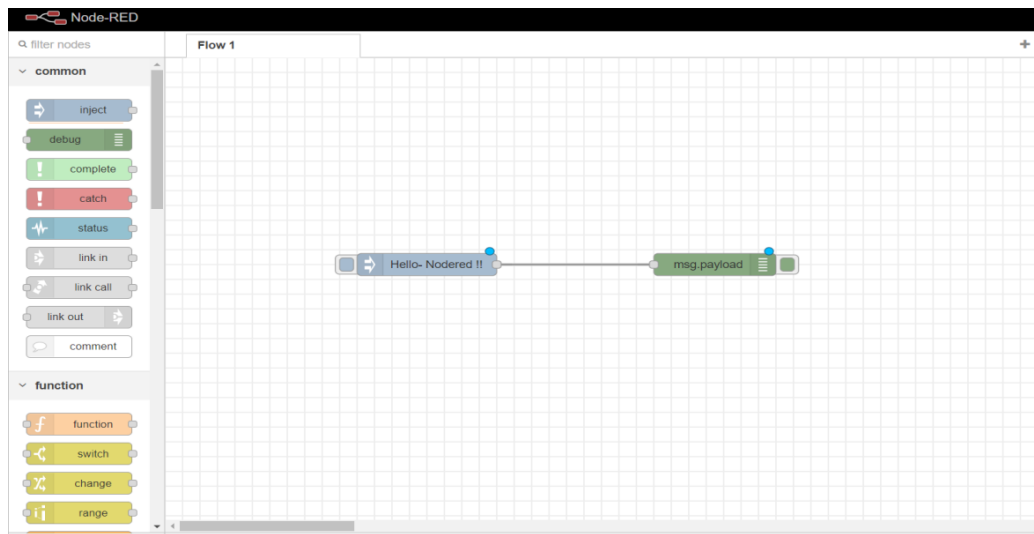
At the bottom, it indicates 'Items per page 50' and '1 of 1 page'.

The screenshot shows the IBM Watson IoT Platform console with the 'Recent Events' tab selected. The device details panel displays the following information:

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

At the bottom right, a status message indicates '1 Simulation running'.




STEP – 2 : CREATING NODE – RED SERVICE




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STEP – 3 : CREATING A DATABASE IN CLOUDANT DB

The screenshot shows the Cloudant Databases dashboard. On the left is a sidebar with navigation icons. The main header area includes the title 'Databases', a 'Database name' dropdown, and buttons for 'Create Database', 'JSON', and a notification bell. Below the header, the 'Your Databases' section contains a table with the following data:

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

This screenshot shows the document view for the 'trial' database. The browser address bar displays the URL: `c5277d10-8a34-43f7-b8f7-dbb5bcc683a9-bluemix.cloudant.com/dashboard.html#database/trial/_all_docs`. The interface includes a sidebar with navigation options like 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main content area features a 'Document ID' dropdown, 'Options', 'JSON', and a notification bell. Below these are tabs for 'Table', 'Metadata', 'JSON', and a 'Create Document' button. A table displays the document's structure:

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

This screenshot shows the document editor for the document with ID 'f3dd501328da85ca16e6868e6bb62b66'. The top bar includes a 'Save Changes' button, a 'Cancel' button, and actions for 'Upload Attachment', 'Clone Document', and 'Delete'. The document content is displayed in a code editor with line numbers 1 through 5:

```
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.

▼ ⚙️ Create bucket +

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

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Cloud Object Storage-a4

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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](#)

↺ ⚙️ 📁 Upload

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

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

Cloud Object Storage

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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](#)

↺ New credential +

<input type="checkbox"/> Key name	Date created	
<input checked="" type="checkbox"/> Service credentials-1	2022-10-30 7:18 PM	📄 🗑️

```
{
  "apikey": "9r1tyv5oqsE1XCqheTmjMviIM0-91w13eITH_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-28f3a4d8-b86b-4521-917a-5d336f6f9d28",
  "resource_instance_id": "crn:v1:bluemix:public:cloud-object-storage:global:a/a1da72822d9f4fb498b5bb3d0e3ab40a:8dd1ef82-d976-4153-b070-7ac9c4e61a5c::"
}
```