

# Prerequisites

## IBM Cloud Services

Date	07 November 2022
Team ID	PNT2022TMID43868
Project Name	Project – Smart solution for railways
Maximum Marks	4 Marks

### Smart solution for railways

Anand M L

The screenshot shows the IBM Cloud Dashboard interface. At the top, there's a navigation bar with the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user's account (Anand M L's Account). The main section is titled 'Dashboard' and includes a 'Create resource' button. Below this, there's a 'For you' section with six cards: 'Build' (Explore IBM Cloud with this selection of easy starter tutorials and services), 'Set up your IBM Cloud account' (Learn how to set up your IBM Cloud account, manage your account settings, organize resources, and control access to those resources. 10 min), 'Get Started with Watson Studio' (Get started with using AI and Cloud Object Storage in 15 minutes. 2 hr), 'Build a web app with Watson Speech to Text' (Deploy a conversational interface compatible with any application, device, or channel. 15 min), 'Build a Virtual Private Cloud (VPC)' (Upgrade to a paid account to create your own protected space in the IBM Cloud. 7 min), and 'Smart Document Understanding Demo' (Check out this Smart Document Understanding demo to learn how this powerful feature allows you to visually apply structure to your documents. 5 min). At the bottom, there's a 'News' section with articles about IBM Storage's Price and Supply Guarantee, IBM Tech Now: November 7, 2022, Unified Key Orchestrator Now Supports Easy Multicloud Key Management for Google KMS, and TrustRadius Best Software: Five IBM Offerings. There are also sections for 'Recent support cases', 'Planned maintenance', and 'IBM Cloud status'.

cloud.ibm.com

IBM Cloud

Search resources and products...

Catalog

Manage

JITHESH T's Account

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Dashboard

Edit dashboard

Upgrade account

Create resource

For you

Select an option

Build

Explore IBM Cloud with this selection of easy starter tutorials and services.

Set up your IBM Cloud account

Learn how to set up your IBM Cloud account, manage your account settings, organize resources, and control access to those resources.

Getting started

10 min

Get Started with Watson Studio

Get started with using AI and Cloud Object Storage in 15 minutes.

Popular

2 hr

Build a web app with Watson Speech to Text

Deploy a conversational interface compatible with any application, device, or channel.

Getting started

15 min

Build a virtual machine

Lift and shift your VMware workloads to the IBM Cloud.

Getting started

7 min

Use Cloudant

Cloudant is a managed NoSQL document database that offers serverless scaling of throughput, capacity, and storage.

Recommended

2 min

News

View all

All About IBM Storage's Price and Supply Guarantee

IBM Tech Now: November 7, 2022

Unified Key Orchestrator Now Supports Easy Multicloud Key Management for Google KMS

TrustRadius Best Software: Five IBM Offerings

Recent support cases

View all

Planned maintenance

View all

IBM Cloud status

View all

cloud.ibm.com

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Recent support cases

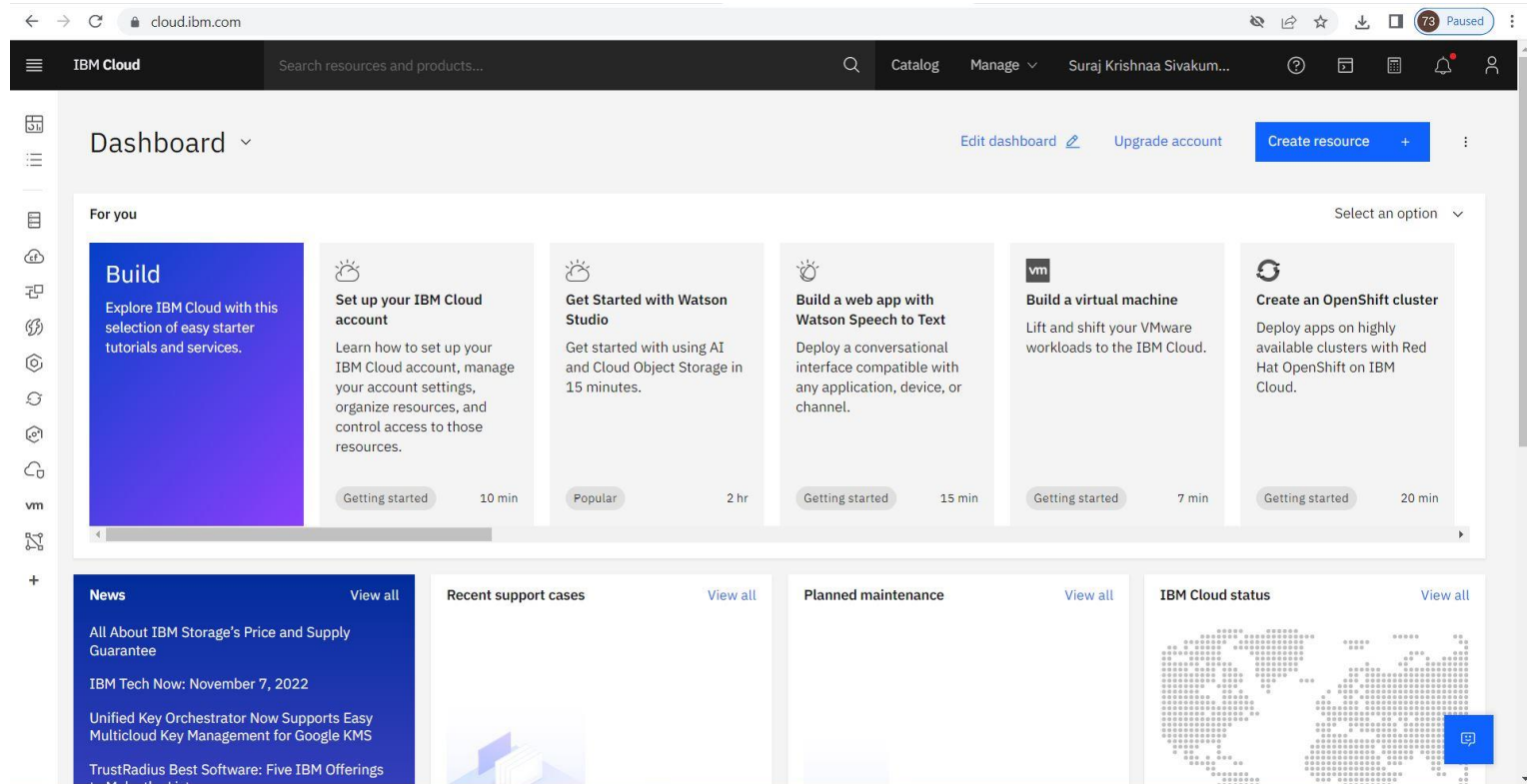
View all

Planned maintenance

View all

IBM Cloud status

View all



## IBM CLOUD SERVICES

### IBM Watson IOT Platform

- Watson IOT Platform features Analytics and Watson APIs Completely manage your IOT landscape and make better business decisions.
- It assures delivery of messages Developer friendly libraries.
- It integrates with java environment.
- Allows development of interactive mobile messaging applications.
- Easy to use ,web based command line interfaces.
- Can be deployed on public cloud infrastructure in IBM cloud, Amazon and Azure cloud environments.

### NODE - Red Service

- Node Red is a flow-based programming tool, originally developed by IBM's Emerging Technology Services team and now a part of the Open JS Foundation.
- The node part reflects both flow/node programming model as well as the underlying node.
- It is low code programming for event for event driven applications.

- Node-RED consists of a Node.js based runtime that you point a web browser at to access the flow editor.
- Within the browser you create your application by dragging nodes from your palette into a workspace and start to wire them together.
- With a single click, the application is deployed back to the runtime where it is run.

## **Cloudant DB**

- IBM Cloudant is a fully managed JSON document database that offers independent serverless scaling of provisioned throughput capacity and storage.
- Cloudant elastically scales throughput and storage and its API and replication protocols are compatible with Apache CouchDB for hybrid or multicloud architectures.
- IBM cloud provides an option of creating a fully managed cloudant instance on IBM cloud.

## **Object storage**

- Object storage is computer based data storage that manages data as objects.
- Object storage is used for purposes such as storing objects like videos and photos on facebook, song on spotify or files in online collaboration services such as dropbox.
- object storage provides programmatic interfaces to allow applications to manipulate data.
- It does not support the locking and sharing mechanisms needed to maintain a single, accurately updated version of life.
- Object storage explicitly separates file metadata from data to support additional functionalities.