# Hands on Lab Prerequisite


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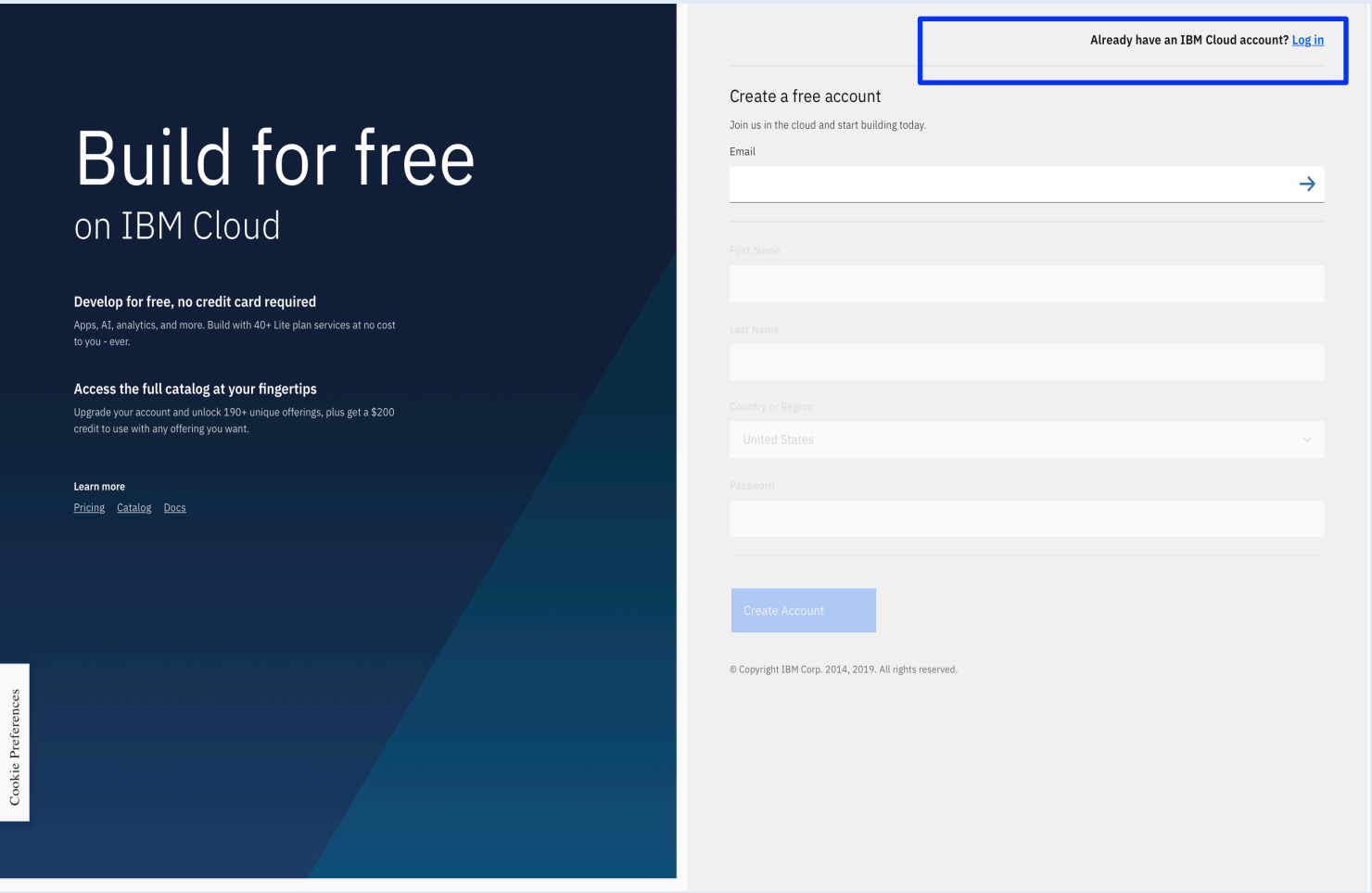
# Step1 – Signup  for IBM Cloud




Visit IBM Cloud to signup for free account

April 10 - Using prediction and optimization to build apps with Nerav Doshi
https://ibm.biz/BdqjCP

May 1 - Manage, measure and explain AI models with Eric Martens
https://ibm.biz/BdqjCy

May 15 - AutoAI deep dive with Jacques Roy
https://ibm.biz/BdqjCM

- This is the IBMid, which you use for accessing anything on the entire IBM site.
- You are directed to confirm your email to complete your registration.
- After clicking the information link in the email that you received, you are directed to the confirmation page. Now your account is activated.

# Step 2 - Locate Watson Studio in the catalog

IBM Cloud | Search resources and offerings... | Catalog | Docs | Support | Manage | NERAV DOSHI's Ac...

## Catalog

Watson Studio

Services (2) | Software (0)

All Categories (2)

- VPC Infrastructure
- Compute
- Containers
- Networking
- Storage
- AI (1)
- Analytics (1)
- Databases
- Developer Tools
- Integration
- Internet of Things
- Security and Identity
- Web and Mobile
- Web and Application

**Provider**

- IBM (121)
- Third party (62)

**Pricing plan**

- Lite (47)
- Free (122)

## Services

Explore our broad portfolio of managed services for infrastructure, developer tools, and more to build your apps on the public cloud.

**All Categories**

**Analytics Engine**
IBM • Analytics

Flexible framework to deploy Hadoop and Spark analytics applications.

Lite • Free • IAM-enabled • Service Endpoint Supported

**Watson Studio**
IBM • AI

Embed AI and machine learning into your business. Create custom models using your own data.

Lite • Free • IAM-enabled

Looking for more? Check out the IBM Cloud experimental services.

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https://cloud.ibm.com/catalog/services/watson-studio

# Step 3 - Create Watson Studio service

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## Watson Studio

**Author:** IBM • **Date of last update:** 03/10/2020 • Docs

**Create** | About

### Select a region

**Select a region**

Dallas

### Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

| Plan | Features | Pricing |
|---|---|---|
| **Lite** | **1 authorized user**<br>50 capacity unit-hours monthly limit<br>1 free small compute environment with 1 vCPU and 4 GB RAM (does not require capacity unit-hours)<br><br>The Lite plan for Watson Studio offers everything you need to become a better data scientist or domain expert in a collaborative environment.<br>**Lite plan services are deleted after 30 days of inactivity.** | Free |
| **Standard v1** | **1 authorized user + unlimited viewer collaborators**<br>50 capacity unit-hours included monthly (additional capacity available)<br>Unlimited elastic compute environments<br>Environment = # of capacity units required per hour<br>• 1 vCPU + 4 GB RAM = 0.5<br>• 2 vCPU + 8 GB RAM = 1<br>• 4 vCPU + 16 GB RAM = 2<br>• 8 vCPU + 32 GB RAM = 4<br>• 16 vCPU + 64 GB RAM = 8<br>• Decision Optimization = Environment + 20 | $99.00 USD/Instance<br>$0.50 USD/Capacity Unit-Hour<br>$99.00 USD/Authorized User |

**Summary**

**Watson Studio** **Free**
Region: Dallas
Plan: Lite
Service name: Watson Studio-ad
Resource group: default

Create

Add to estimate

View terms

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# Step4 – Create Cloud Object Storage Service

IBM Cloud | Search resources and offerings... | Catalog | Docs | Support | Manage | NERAV DOSHI's Ac...

## Cloud Object Storage

**Author:** IBM • **Date of last update:** 03/11/2020 • Docs • API docs

**Create** | About

### Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

| Plan | Features | Pricing |
|---|---|---|
| **Lite** | **1 COS Service Instance**<br>Storage up to 25 GB/mo.<br>Up to 20,000 GET requests/mo.<br>Up to 2,000 PUT requests/mo.<br>Up to Data Retrieval 10 GB/mo.<br>Up to 5GB Public Outbound<br>Applies to aggregate total across all storage bucket classes<br><br>The Lite service plan for Cloud Object Storage includes Regional and Cross Regional resiliency, flexible data classes, and built in security.<br>**Lite plan services are deleted after 30 days of inactivity.** | Free |
| **Standard** | **There is no minimum fee, so you pay only for what you use.** | See pricing details |

### Configure your resource

**Service name:** Cloud Object Storage-no

**Select a resource group:** default

**Tags**

Examples: env:dev, version-1

**Summary**

**Cloud Object Storage** **Free**
Region: Global
Plan: Lite
Service name: Cloud Object Storage-no
Resource group: default

Create

Add to estimate

View terms

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# Step 4b - Only **1** service per free account

Note: If you get this message that means you already have a service and can use that

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## Cloud Object Storage

**Author:** IBM • **Date of last update:** 03/11/2020 • Docs • API docs

**Create** | About

### Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

| Plan | Features | Pricing |
|---|---|---|
| Lite | **1 COS Service Instance**<br>Storage up to 25 GB/mo.<br>Up to 20,000 GET requests/mo.<br>Up to 2,000 PUT requests/mo.<br>Up to Data Retrieval 10 GB/mo.<br>Up to 5GB Public Outbound<br>Applies to aggregate total across all<br>The Lite service plan for Cloud Objec<br>**Lite plan services are deleted after 30 days of inactivity.** | |
| Standard | **There is no minimum fee, so you pay only for what you use.** | See pricing details |

### Create Service

You can only have one instance of a Lite plan per service. To create a new instance, either delete your existing Lite plan instance or select a paid plan.

Transaction ID: 68346eca45af4747b8aac00ab61d7e34:bef857cec6d122cf

### Configure your resource

**Service name:** Cloud Object Storage-no

**Select a resource group:** default

**Tags**

Examples: env:dev, version-1

**Summary**

**Cloud Object Storage** **Free**
Region: Global
Plan: Lite
Service name: Cloud Object Storage-no
Resource group: default

Create

Add to estimate

View terms

FEEDBACK

# Step5 – Create Watson Machine Learning Service

IBM Cloud | Search resources and offerings... | Catalog | Docs | Support | Manage | NERAV DOSHI's Ac...

## Machine Learning

**Author:** IBM • **Date of last update:** 03/23/2020 • Docs

**Create** | About

### Select a region

**Select a region**

Dallas

### Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

| Plan | Features | Pricing |
|---|---|---|
| **Lite** | **Service instance**<br>5 model deployments<br>5,000 predictions<br>50 capacity unit-hours (CUH) included:<br>Capacity Type:<br>• 1 (one) NVIDIA K80 GPU = 2 capacity units required per hour<br>• 1 (one) NVIDIA V100 GPU = 8 capacity units required per hour<br>• 1 vCPU and 4 GB RAM = 0.5 capacity units required per hour<br>• 2 vCPU and 8 GB RAM = 1 capacity units required per hour<br>• 4 vCPU and 16 GB RAM = 2 capacity units required per hour<br>• 8 vCPU and 32 GB RAM = 4 capacity units required per hour<br>• 16 vCPU and 64 GB RAM = 8 capacity units required per hour<br>Auto AI<br>• 8 vCPU and 32 GB RAM = 20 capacity units required per hour<br>Decision Optimization<br>• 2 vCPU and 8 GB RAM = 30 capacity units required per hour<br>• 4 vCPU and 16 GB RAM = 40 capacity units required per hour<br>• 16 vCPU and 64 GB RAM = 60 capacity units required per hour<br><br>The lite plan instance of the IBM Watson Machine Learning service provides you with a maximum of 5 deployed models, 5,000 predictions per month, and 50 capacity unit-hours per month during which model can be trained, evaluated, and deployed to be available to accept prediction events, with a minimum of 1 minute per training job.<br><br>**Lite plan services are deleted after 30 days of inactivity.** | Free |
| **Standard** | **Service instance**<br>Pay-go prediction events<br>Pay-go capacity unit-hours (CUH) included: | $0.50 USD/1,000 predictions<br>$0.50 USD/capacity unit-hour |

**Summary**

**Machine Learning** **Free**

Region: Dallas
Plan: Lite
Service name: Machine Learning-my
Resource group: default

Create

Add to estimate

View terms

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# Step6 – Create Watson OpenScale Service

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## Watson OpenScale

**Author:** IBM • **Date of last update:** 02/21/2020 • Docs • API docs

**Create** | About

### Select a region

**Select a region**

Dallas

### Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

| Plan | Features | Pricing |
|---|---|---|
| **Lite** | **Lite - Maximum 5 deployed models to be monitored**<br>Maximum 2 protected features per model and 50,000 payload rows (cumulative) across 5 deployed models, per month for Fairness monitoring<br>Maximum 50,000 rows of input (cumulative) across 5 deployed models, per month for active De-Biasing<br>Maximum 20 transactions explained per month through the Explainability feature<br>Maximum 50,000 feedback records (cumulative) across 5 models, per month for Accuracy monitoring<br>Internal Postgres db instance that supports the above capacity; Data cannot be migrated from this instance; If upgrading to Standard plan and continuity is required from Lite plan, please provision your own instance of paid Postgres db from IBM Cloud catalog<br><br>The Watson OpenScale Lite Plan offers everything you need to begin your journey to deploying trusted AI across your business, including access to explainability, bias detection and mitigation, and automated AI capabilities.<br><br>**Lite plan services are deleted after 30 days of inactivity.** | Free |
| **Standard** | **Includes support to monitor up to 24 deployed models**<br>Monitoring of additional deployed models charged at $3,250 per 6 models. There are no restrictions on the number of payload, feedback rows or transactions for Explainability. | $13,000.00 USD/Instance<br>$3,250.00 USD/6 Models |

### Configure your resource

**Service name:**

Watson OpenScale-8z

**Select a resource group:**

default

**Summary**

**Watson OpenScale** **Free**

Region: Dallas
Plan: Lite
Service name: Watson OpenScale-8z
Resource group: default

Create

Add to estimate

View terms

Let's talk

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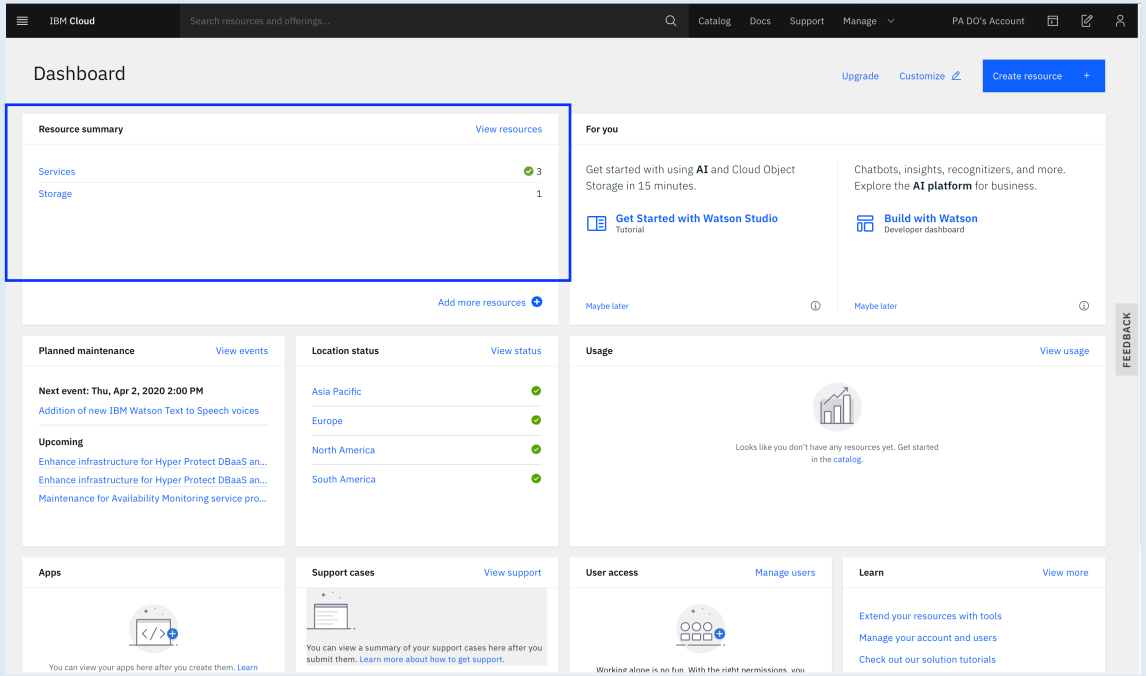
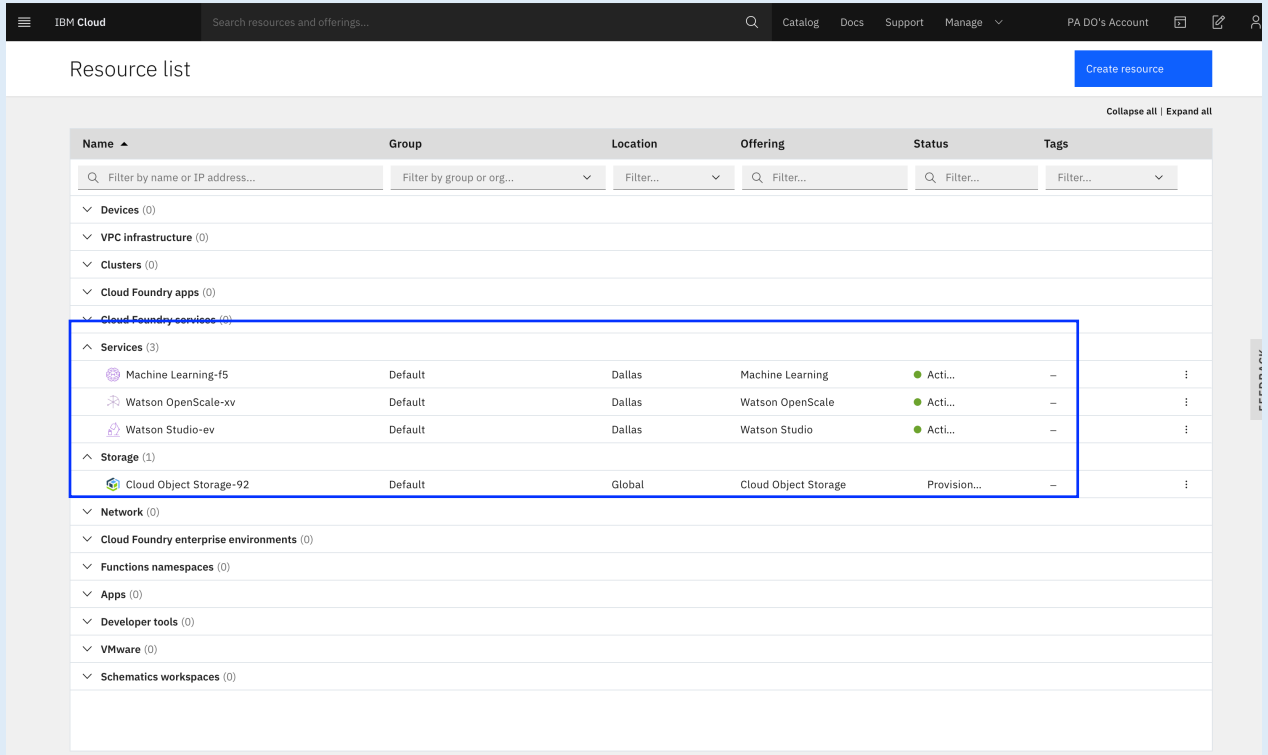
# Step7 - Verify all services and storage




Click on service
and you should see