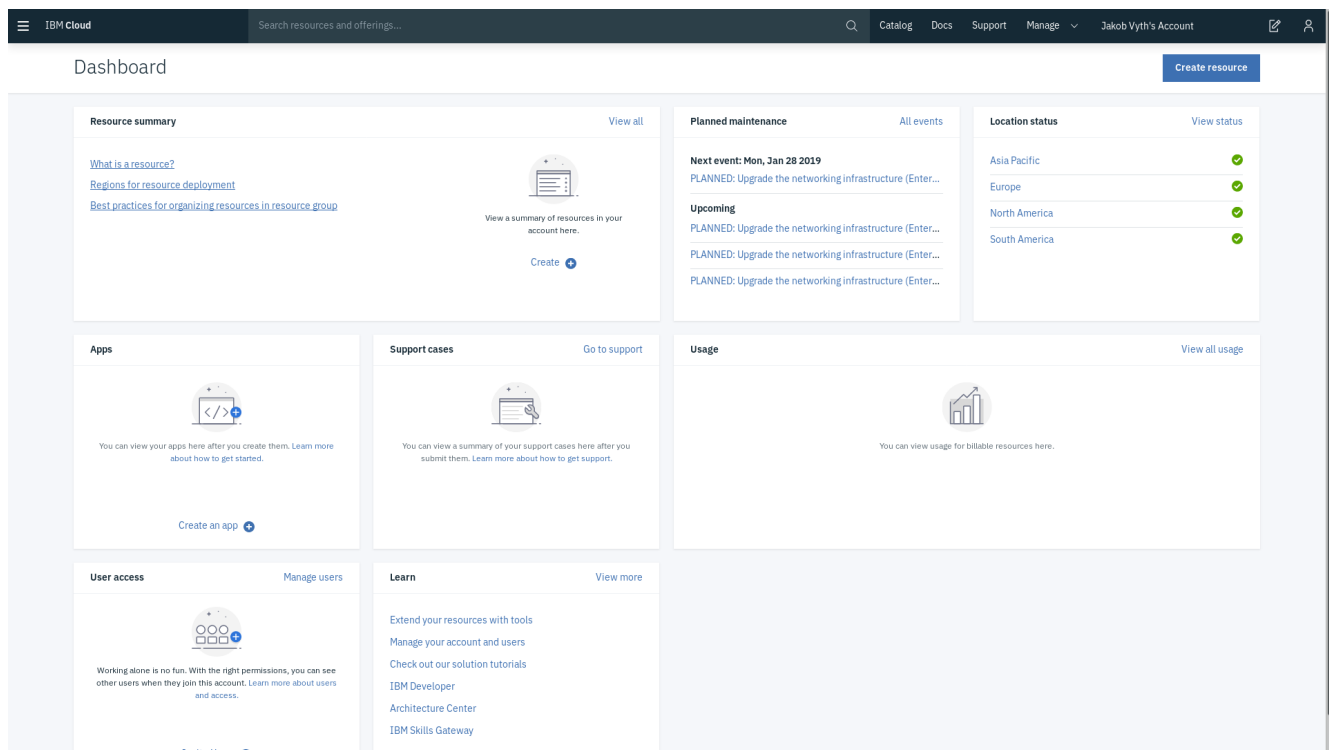


Preparations for Data Innovation Summit Workshop with IBM

Create your IBM Cloud account

Go to <https://cloud.ibm.com/registration> and follow the instructions. Once you have completed the registration process, log in to your IBM Cloud account. You should be directed to the Dashboard:

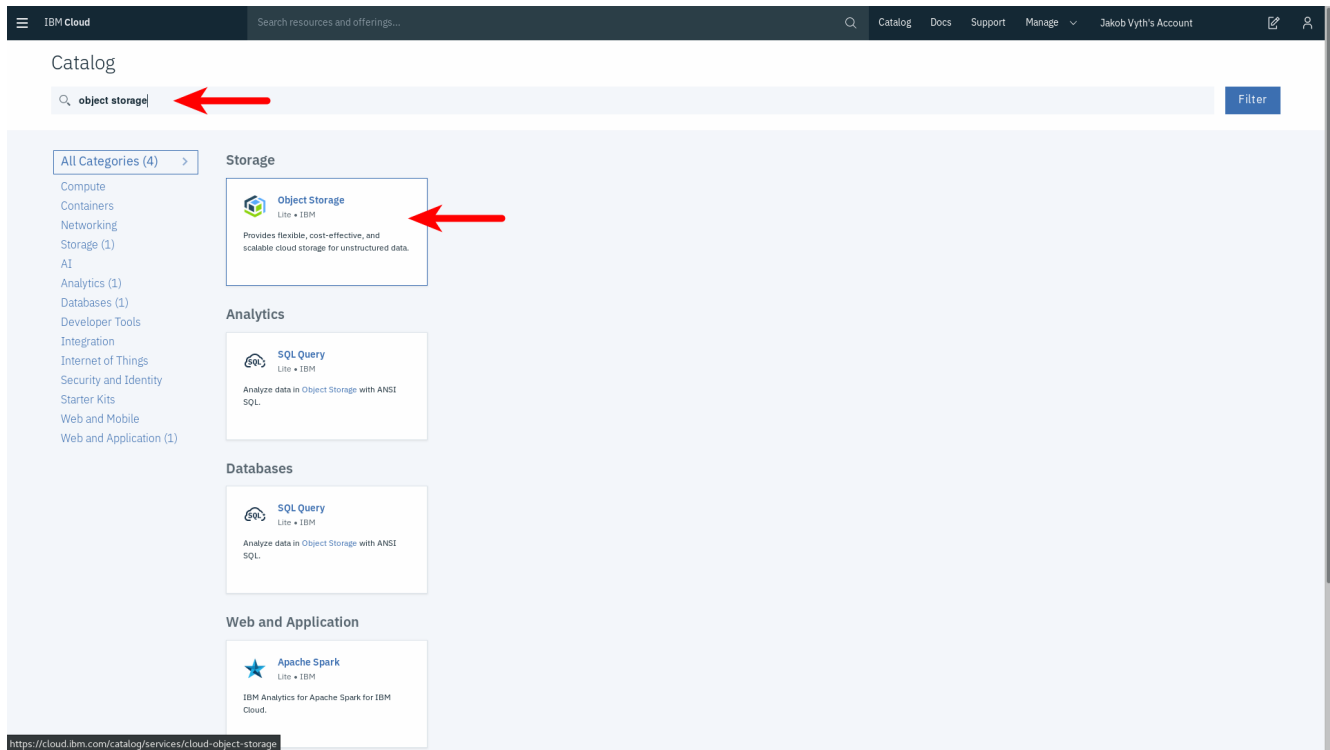


The screenshot displays the IBM Cloud Dashboard interface. At the top, a dark navigation bar includes the IBM Cloud logo, a search bar, and links for Catalog, Docs, Support, Manage, and the user's account (Jakob Vyth's Account). The main content area is titled "Dashboard" and features a "Create resource" button in the top right corner. The dashboard is organized into several sections:

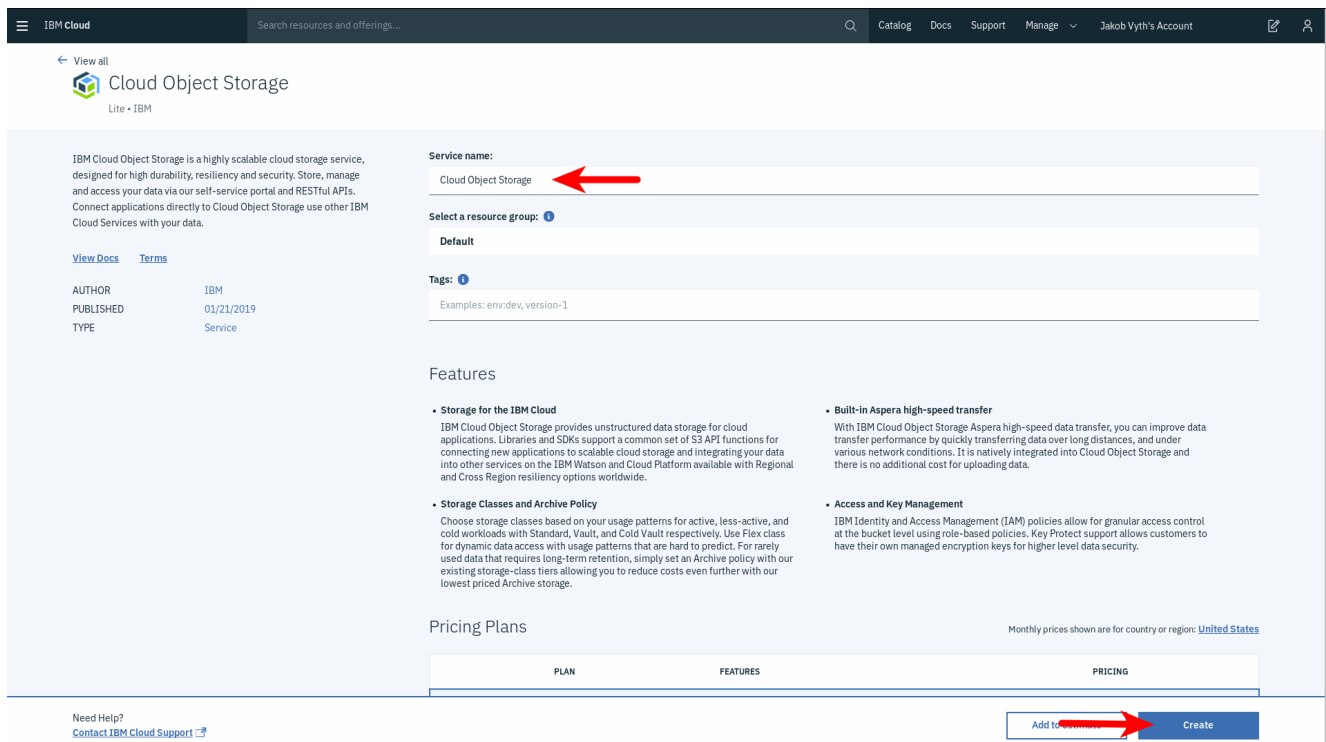
- Resource summary:** Includes links for "What is a resource?", "Regions for resource deployment", and "Best practices for organizing resources in resource group". It also features a "View all" link and a "Create" button.
- Planned maintenance:** Shows the next event on Monday, January 28, 2019, with a "View status" link. It lists planned upgrades for networking infrastructure.
- Location status:** A table showing the status of resources across different regions, with green checkmarks indicating successful status for Asia Pacific, Europe, North America, and South America.
- Apps:** A section for managing applications, with a "Create an app" button.
- Support cases:** A section for managing support cases, with a "Go to support" link.
- Usage:** A section for viewing resource usage, with a "View all usage" link.
- User access:** A section for managing users, with a "Manage users" link.
- Learn:** A section for learning more about IBM Cloud, with links to "Extend your resources with tools", "Manage your account and users", "Check out our solution tutorials", "IBM Developer", "Architecture Center", and "IBM Skills Gateway".

Create a Cloud Object Storage Service Instance

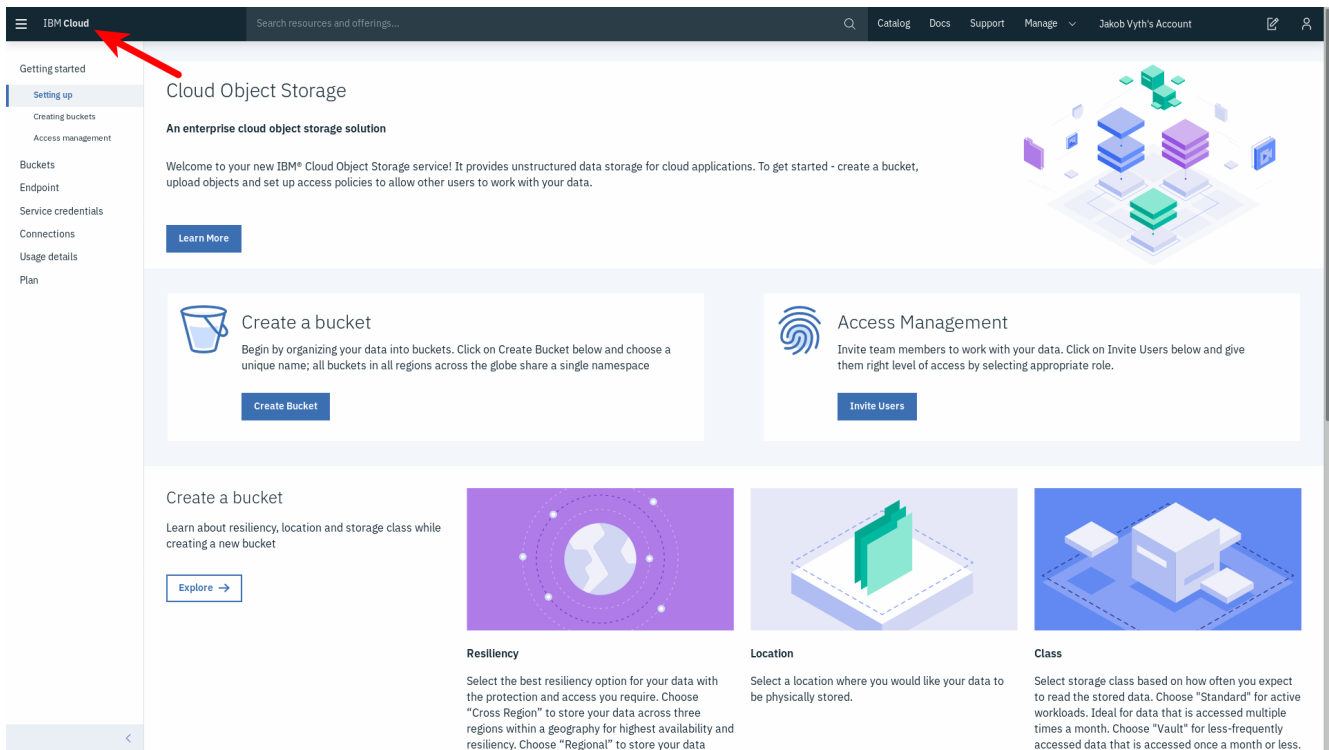
From the Dashboard, click on **Create resource**. You will be directed to the IBM Cloud Catalog where all available resources can be found. Search for “object storage” and click the **Object Storage** service:



Give your Object Storage service instance a **name**, for instance “Cloud Object Storage”. Keep everything else as is and click **Create**:

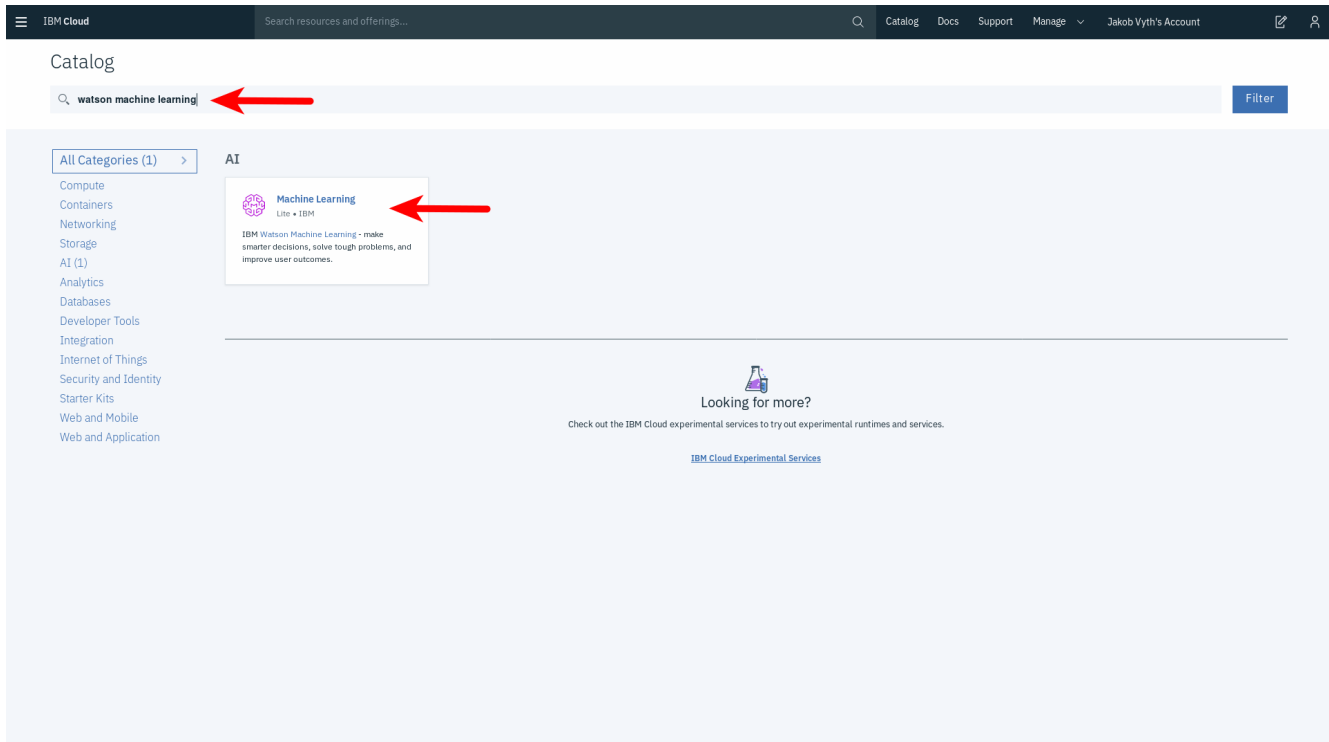


Your Object Storage service instance is now ready for use. Click on **IBM Cloud** in the top left corner to return to the Dashboard:



Create a Machine Learning Service Instance

From the Dashboard, click on **Create resource**. Search for “watson machine learning” and click the **Machine Learning** service:



Give your Machine Learning service instance a **name**, for instance “Machine Learning”, and change the **Region** to **Dallas**. Keep everything else as is and click **Create**:

IBM Cloud

Search resources and offerings...

View all

Machine Learning

Lite • IBM

IBM Watson Machine Learning is a full-service IBM Cloud offering that makes it easy for developers and data scientists to work together to integrate predictive capabilities with their applications. The Machine Learning service is a set of REST APIs that you can call from any programming language to develop applications that make smarter decisions, solve tough problems, and improve user outcomes.

[View Docs](#) [Terms](#)

AUTHOR IBM
PUBLISHED 01/30/2019
TYPE Service

Service name:
Machine Learning

Choose a region/location to deploy in:
Dallas

Select a resource group:
Default

Tags:
Examples: env:dev, version-1

Features

- Machine Learning features**
Take advantage of machine learning models management (continuous learning system) and deployment (online, batch, streaming). Select any of widely supported machine learning frameworks: TensorFlow, Keras, Caffe, PyTorch, Spark MLlib, scikit learn, xgboost and SPSS.
- Wide choice of Interfaces**
Use the command line interface and Python client to manage your artifacts. Extend your application with artificial intelligence through the Watson Machine Learning REST API.
- Integration with Watson Studio**
Create and train machine learning models with the best tools and the latest expertise in a social environment built by and for data scientists.

Images

Images can be screen captures, slides, or videos. Click an image to view the details.

[Add to estimate](#) [Create](#)

Your Machine Learning service instance is now ready.

Create a Watson Studio Service Instance

From the Dashboard, click on **Create resource**. Search for “watson studio” and click the **Watson Studio** service:

IBM Cloud

Search resources and offerings...

Catalog Docs Support Manage Jakob Vyth's Account

Catalog

Q watson studio Filter

All Categories (2) >

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

AI

Watson Studio
Lite • IBM
Embed AI and machine learning into your business. Create custom models using your own data.

Analytics

Analytics Engine
Lite • IBM
Flexible framework to deploy Hadoop and Spark analytics applications.

Looking for more?
Check out the IBM Cloud experimental services to try out experimental runtimes and services.
[IBM Cloud Experimental Services](#)

Give your Watson Studio instance a **name**, for instance “Watson Studio”, and change **Region** to **Dallas**. Keep everything else as is and click **Create**:

IBM Cloud

Search resources and offerings...

View all

Watson Studio

Lite • IBM

Watson Studio democratizes machine learning and deep learning to accelerate infusion of AI in your business to drive innovation. Watson Studio provides a suite of tools and a collaborative environment for data scientists, developers and domain experts.

[View Docs](#) [Terms](#)

AUTHOR IBM
PUBLISHED 01/31/2019
TYPE Service

Service name: Watson Studio

Choose a region/location to deploy in: Dallas

Select a resource group: Default

Tags: Examples: env:dev, version-1

Features

- Use what you know, learn what you don't**
Start from a tutorial, start from a sample, or start from scratch. Tap into the power of the best of open source (RStudio, Jupyter Notebooks) and Watson services for flexible model creation. Use Python, R, or Scala. Stop downloading and configuring analysis environments and start getting insights.
- Power on demand**
Enterprise-scale features on demand. From data exploration and preparation, to enterprise-scale performance. Manage your data, your analytical assets, and your projects in a secured cloud environment.
- Be a founding member**
Take advantage of shared data sets, notebooks, models, and tutorials. Share your work with your team and your peers across job roles. Join a vibrant community of data scientists, developers, and domain experts across industries, functions, and organization types.
- Collaborate for better outcomes**
Work with your peers on projects to find better solutions together. Share your knowledge and your work easily with visualizations and code - and help fuel the advancement of data science and AI for all.

Images

Images can be screen captures, slides, or videos. Click an image to view the details.

Need Help? [Contact IBM Cloud Support](#)

[Add to estimate](#) [Create](#)

If the **Resource summary** on your Dashboard looks like this, you are done:

IBM Cloud

Search resources and offerings...

Dashboard

[Create resource](#)

Resource summary

[View all](#)

Services	2	✓
Storage	1	✓

Planned maintenance

[All events](#)

Next event: Mon, Jan 28 2019

PLANNED: Upgrade the networking infrastructure (Enterp...

Upcoming

PLANNED: Upgrade the networking infrastructure (Enterp...

PLANNED: Upgrade the networking infrastructure (Enterp...

PLANNED: Upgrade the networking infrastructure (Enterp...

Location status

[View status](#)

Asia Pacific	✓
Europe	✓
North America	✓
South America	✓

Apps

You can view your apps here after you create them. Learn more about how to get started.

[Create an app](#)

Support cases

[Go to support](#)

You can view a summary of your support cases here after you submit them. Learn more about how to get support.

Usage

[View all usage](#)

You can view usage for billable resources here.

User access

[Manage users](#)

Working alone is no fun. With the right permissions, you can see other users when they join this account. Learn more about users and access.

Learn

[View more](#)

- Extend your resources with tools
- Manage your account and users
- Check out our solution tutorials
- IBM Developer
- Architecture Center
- IBM Skills Gateway

<https://cloud.ibm.com/status?query=915930&selected=maintenance>

Install the watson-machine-learning-client Python library

The last part of the workshop involves running a Python script which will test the model you have created. The script uses the **watson-machine-learning-client** library to call on your model's API.

Make sure you have **Python version 3.5 or later** and **pip** installed on your machine.

Installing pip can be done in a multitude of ways depending on your operating system. For instructions on how to do it on Windows, Mac, or Linux, follow the instructions given [here](#). If it is not applicable to the OS you are sporting, consult your favorite search engine.

Then use pip to install the library together with its dependency **scikit-learn**. If you are on Linux or Mac, this should look something like this:

```
jakob@oc2560228244:~$ pip install watson-machine-learning-client scikit-learn
```