

AI technology in *Machine Learning for Kids* is provided by Watson services in IBM Cloud.

This means you need to create an IBM Cloud account and create some Watson services to add to your *Machine Learning for Kids* class.

Creating an IBM Cloud account is free.

Creating “**Lite Plan**” Watson services is **free**, but have restrictions on the number of machine learning models you can create with them.

Creating “**Standard Plan**” Watson services increases these restrictions.
When you sign up you are given \$200 credit to get started and pay per use after that.

This document gives you step-by-step instructions for how to do all of this.

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:03

IBM Cloud

https://cloud.ibm.com/login

Welcome to IBM Cloud

Start building immediately using 190+ unique services.

Create an IBM Cloud account

Get a \$200 credit when you upgrade

After you upgrade to a Pay-As-You-Go account, you can use the credit to try new services or scale your projects. The credit is valid for one month and can be used with any of our IBM Cloud offerings.

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Pricing Catalog Docs Status

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1. Create your IBM Cloud account

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3. Create credentials for images projects

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Log in to IBM Cloud

ID

IBMid

Remember me

Forgot ID?
Forgot password?

Continue

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Go to <https://cloud.ibm.com>

Click on
'Create an IBM Cloud account'

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Sign up for IBM Cloud

Incognito

https://cloud.ibm.com/registration

Build for free on IBM Cloud

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Apps, AI, analytics, and more. Build with 40+ Lite plan services at no cost to you - ever.

Access the full catalog at your fingertips

Upgrade your account and unlock 190+ unique offerings, plus get a \$200 USD credit to use with any offering you want.

Learn more

[Pricing](#) [Catalog](#) [Docs](#)

Sign up for a free account at
IBM Cloud

Already have an IBM Cloud account? [Log in](#)

Create an IBM Cloud Account

Email*



First Name*

Last Name*

Country or Region*

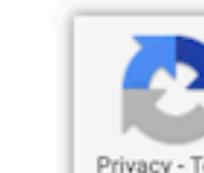
United Kingdom

Password*

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Incognito [...](#)

<https://cloud.ibm.com/registration>

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Learn more

[Pricing](#) [Catalog](#) [Docs](#)

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

Already have an IBM Cloud account? [Log in](#)

Create an IBM Cloud Account

Email* mlforkidsdoc@gmail.com ✓

First Name* Teacher ✓

Last Name* Demo ✓

Country or Region* United Kingdom ✓

Password* ✓

IBM may use my contact data to keep me informed of products, services and offerings:

by email by telephone

You can withdraw your marketing consent at any time by sending an email to [Privacy - Terms](#)

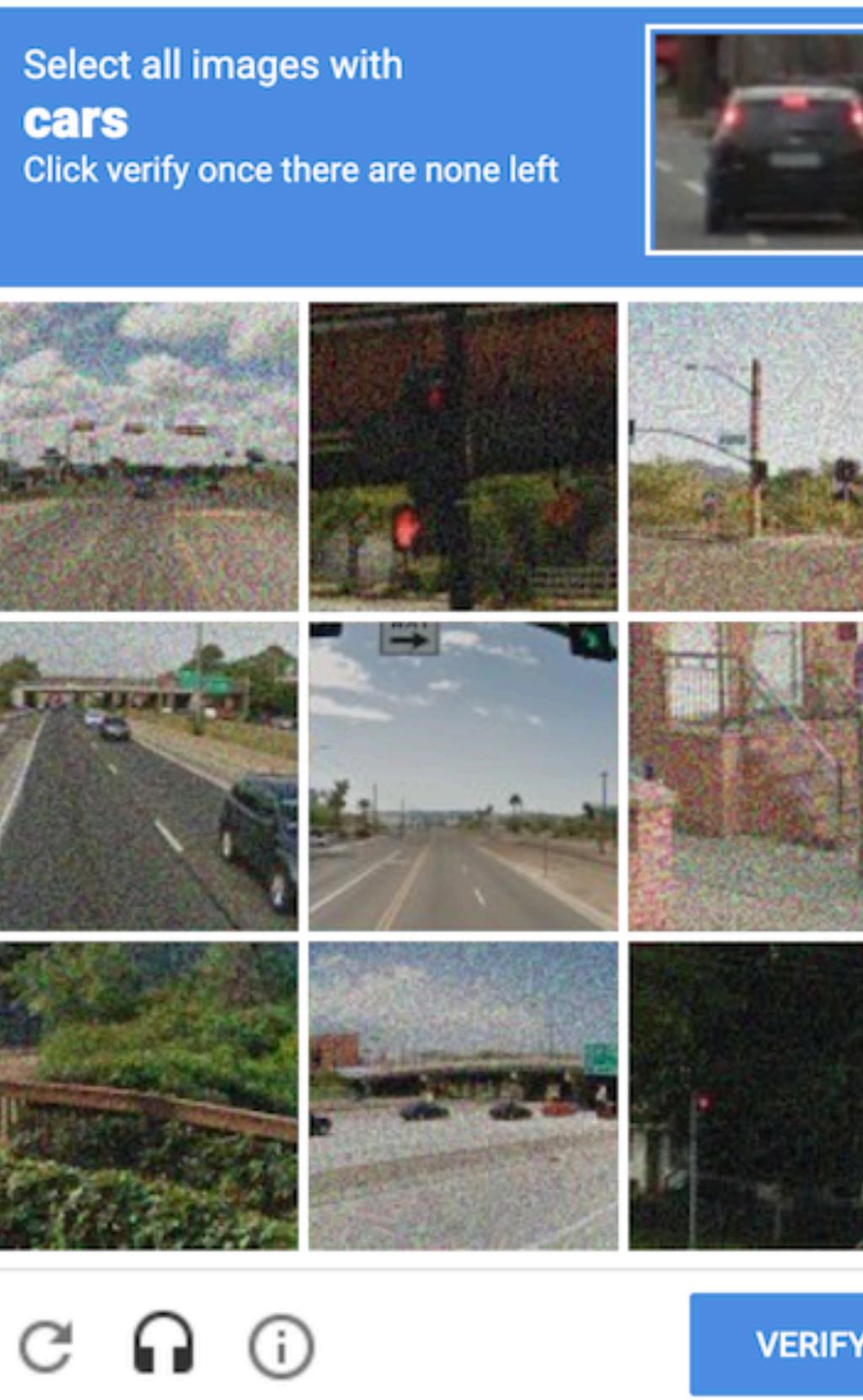
Fill in your contact details

Sign up for IBM Cloud x +

Incognito ...

Last Name* ✓
Demo

Select all images with cars
Click verify once there are none left



Build for free on IBM Cloud

Develop for free, no credit card required

Apps, AI, analytics, and more. Build with 40+ Lite plan services ever.

Access the full catalog at your fingertips

Upgrade your account and unlock 190+ unique offerings, plus to use with any offering you want.

Learn more

Pricing Catalog Docs

Privacy - Terms

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

You might be asked to prove that you are a human!

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:08

Sign up for IBM Cloud

https://cloud.ibm.com/registration/trial/success?uid=478b90306e454316a79378b78a0ef22b

Incognito

Cookie Preferences

 IBM Cloud

Thanks!

To complete your registration, check your email.

Can't find the email? [Resend](#)

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

You've signed up.

Wait for the confirmation email.

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:09

Inbox (1) - mlforkidsdoc@gmail.com

https://mail.google.com/mail/#inbox

Gmail Search mail

Compose

Inbox 1 IBM Cloud

Action required: Confirm your IBM Cloud account - Hello Teacher, Thank you for signing up! 23:08

Starred Snoozed Sent Drafts More

ML for Kids +

0 GB (0%) of 15 GB used Manage

No recent chats Start a new one

Terms · Privacy · Programme Policies

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

Your email should arrive within a minute.

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:10

Action required: Confirm your IBM Cloud account

https://mail.google.com/mail/#inbox/

Gmail Search mail

Compose

Inbox

Starred Snoozed Sent Drafts More

ML for Kids

No recent chats Start a new one

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

Action required: Confirm your IBM Cloud account

IBM Cloud <no-reply@cloud.ibm.com>

23:08 (1 minute ago)

Hello Teacher,

Thank you for signing up for IBM Cloud! Confirm your account to get started.

Confirm account

By confirming your account, you accept the [Terms of Use](#).

Welcome and happy building!

Click the Confirm account button in your email.

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:11

Sign up for IBM Cloud

Incognito

https://cloud.ibm.com/registration/accept

IBM Cloud

Welcome!

You confirmed your IBM Cloud account, and it is now activated. Log in to get started.

Log in

Cookie Preferences

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

Your IBM Cloud account is now live.

Click the **Log in** button.

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:11

About your IBMid Account Privacy +

https://myibm.ibm.com/elanotice/5/en-us/notice.html?t=eyJhbGciOiJIUzI1NilsInR5cCI6IkpxVCJ9.eyJ1c2VySUQiOiJtbGZvcmtpZHNkb2NAZ21h... Incognito :

About your IBMid Account Privacy

This notice provides information about accessing your IBMid user account (Account). If you have previously been presented with a version of this notice, please refer to “Changes since the previous version of this notice” below for information about the new updates.

- + Changes since the previous version of this notice
- + What data does IBM collect?
- + Why IBM needs your data
- + How your data was obtained
- + How IBM uses your data
- + How IBM protects your data
- + How long we keep your data

1. Create your IBM Cloud account
2. Create credentials for text projects
3. Create credentials for images projects
4. Billing

Review & accept the Privacy Policy

Chrome File Edit View History Bookmarks People Window Help

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IBM Cloud x

https://cloud.ibm.com

Incognito

Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Dashboard

Resource summary

[What is a resource?](#)

[Regions for resource deploy](#)

[Best practices for organizing](#)

Location status

Asia Pacific

Europe

North America

South America

Welcome to IBM Cloud



IBM Cloud

We're glad you're here! Now that your account is all set up with a resource group, org, and space already created for you, you're ready to start working on your projects.

• ○

Next

Upgrade account x

Create resource

View events

or 2019 20:00

for the Watson Assistant ...

cluster workers to obtain ...

cluster workers to obtain ...

ertificates for Blockchain ...

FEEDBACK

View support

+ of your support cases here after more about how to get support.

1.
Create your IBM Cloud account

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Create credentials for text projects

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Create credentials for images projects

4.
Billing

Your IBM Cloud account is now ready to use.

Chrome File Edit View History Bookmarks People Window Help

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IBM Cloud x

https://cloud.ibm.com

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IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Upgrade account Create resource

Dashboard

Resource summary [View resources](#)

[What is a resource?](#)
[Regions for resource deployment](#)
[Best practices for organizing resources in resource group](#)

 View a summary of resources in your account here.

[Create +](#)

Planned maintenance [View events](#)

Next event: Mon, 22 Apr 2019 20:00
PLANNED: Migrate data for the Watson Assistant ...

Upcoming

PLANNED: Upgrade the cluster workers to obtain ...
PLANNED: Upgrade the cluster workers to obtain ...
PLANNED: Renew the certificates for Blockchain ...

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.](#)

Support cases [View support](#)



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

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

This is the dashboard view where you can see what you've created.

Click “Create resource” in the top right

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:14

Catalog - IBM Cloud

cloud.ibm.com/catalog?search=label%3Alite

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Try the best of the Catalog for free with no time restrictions with Lite plans.
The Lite filter is enabled. Remove the filter to see the full Catalog.

Catalog

All Categories (51) >

Compute

Containers and VMs

 Container Registry IBM
Securely store container images and monitor their vulnerabilities in a private registry.

APIs and services

Cloud Foundry

 Cloud Foundry IBM
Run your Cloud Foundry application in either a multi-tenant, or an isolated environment (Cloud Foundry Enterprise).

Cloud Foundry apps

Offering type

APIs and services

Cloud Foundry apps

Containers

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

This is where you find the range of services that are available in IBM Cloud.

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:14

Catalog - IBM Cloud

cloud.ibm.com/catalog?search=label%3Alite%20Assistant

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Try the best of the Catalog for free with no time restrictions with Lite plans.
The Lite filter is enabled. Remove the filter to see the full Catalog.

Catalog

All Categories (1) >

AI

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

Offering type ▾
 APIs and services
 Cloud Foundry apps

label:lite Assistant

Watson Assistant
IBM
Watson Assistant lets you build conversational interfaces into any application, device, or channel.
APIs and services

FEEDBACK

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

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

Find “Watson Assistant” in the list.

The filter at the top is a good way to help you do that.

Click on “Watson Assistant”

Chrome File Edit View History Bookmarks People Window Help

Watson Assistant - IBM Cloud

cloud.ibm.com/catalog/services/watson-assistant

IBM Cloud Search resources and offerings... My Resources Catalog Docs Support Manage Teacher Demo's Account

Watson Assistant

Lite IBM Service IAM-enabled

Author: IBM • Date of last update: 11/10/2019

Create About

Select a region

London

Select a pricing plan

PLAN	FEATURES	PRICING
Lite	10,000 Messages/Month AI-Based Intent and Entity Recognition Entity Synonym Recommendations Visual Dialog Edit with Simple Response Types (Text, Options, Images, etc...) Prebuilt Content Available Analytics Dashboard with 7 Days of Storage 5 Dialog Skills, Each with 100 Dialog Nodes Shared Public Cloud	Free
Plus Trial	Everything in Plus, for 30 days, for free! 50,000 Messages	Free

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Enter details for the Assistant service that you will create

The region/location that you choose doesn't really matter.

Scroll down to see the rest of the options before you click the Create button!

Chrome File Edit View History Bookmarks People Window Help

Watson Assistant - IBM Cloud

cloud.ibm.com/catalog/services/watson-assistant

My Resources Catalog Docs Support Manage Teacher Demo's Account

Select a pricing plan

Monthly prices shown are for country or region: [United States](#)

PLAN	FEATURES	PRICING
Lite	10,000 Messages/Month AI-Based Intent and Entity Recognition Entity Synonym Recommendations Visual Dialog Edit with Simple Response Types (Text, Options, Images, etc...) Prebuilt Content Available Analytics Dashboard with 7 Days of Storage 5 Dialog Skills, Each with 100 Dialog Nodes Shared Public Cloud	Free
Plus Trial	Everything in Plus, for 30 days, for free! 50,000 Messages 5,000 Users Creation limits consistent with the Lite Plan	Free
Standard	Everything in Lite, with these additions... Unlimited Messages/Month 20 Dialog Skills, Each with Unlimited Dialog Nodes 10 Versions per Dialog Skill Analytics Dashboard with 30 Days of Storage	\$0.0025 USD/API call*
Plus	Everything in Standard, with these additions... 50 Skills (per Instance), Each with Unlimited Dialog Nodes Up to 3 Instances	Starting at \$

1.
Create your IBM Cloud account

2.
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3.
Create credentials for images projects

4.
Billing

Pricing Plans are next.

The number of “Dialog Skills” is how many machine learning models your students can have (at once) for their text projects.

If you have 10 students, and you want them to all be able to train their own text projects at the same time, then you will need 10 dialog skills.

With the Lite plan, an instance of Assistant will let you have 5 dialog skills.

Using the ML model from Scratch projects is Free in the Lite Plan (up to 10,000 times per month)

Chrome File Edit View History Bookmarks People Window Help

Watson Assistant - IBM Cloud

cloud.ibm.com/catalog/services/watson-assistant

IBM Cloud Search resources and offerings... My Resources Catalog Docs Support Manage Teacher Demo's Account

Select a pricing plan Monthly prices shown are for country or region: [United Kingdom](#)

PLAN	FEATURES	PRICING
Lite	10,000 Messages/Month AI-Based Intent and Entity Recognition Entity Synonym Recommendations Visual Dialog Edit with Simple Response Types (Text, Options, Images, etc...) Prebuilt Content Available Analytics Dashboard with 7 Days of Storage 5 Dialog Skills, Each with 100 Dialog Nodes Shared Public Cloud	Free
Plus Trial	Everything in Plus, for 30 days, for free! 50,000 Messages 5,000 Users Creation limits consistent with the Lite Plan	Free
Standard	Everything in Lite, with these additions... Unlimited Messages/Month 20 Dialog Skills, Each with Unlimited Dialog Nodes 10 Versions per Dialog Skill Analytics Dashboard with 30 Days of Storage	£0.001756 GBP/API call*
Plus	Everything in Standard, with these additions... 50 Skills (per Instance), Each with Unlimited Dialog Nodes Up to 3 Instances Disambiguation Intent Recommendations Intent Conflict Detection	Starting at \$

Summary

Watson Assistant [Estimate costs](#)
Region: London
Plan: Standard
Service name: Put Any Name In Here
Resource group: Default

[Upgrade](#) [Add to estimate](#) [View terms](#)

Upgrade your account to use this pricing plan

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

The “Standard” plan lets you have up to 20 dialog skills.

Each instance of the Standard Plan service will support up to 20 students training machine learning models for their text projects at once.

Or... 10 students each training machine learning models for two of their text projects at once.

Or... 5 students each training machine learning models for four of their text projects at once.

Using the ML model from Scratch projects costs £0.001756 in the Standard Plan every time you use the model to recognise some text.

Chrome File Edit View History Bookmarks People Window Help

Watson Assistant - IBM Cloud

cloud.ibm.com/catalog/services/watson-assistant

IBM Cloud Search resources and offerings... My Resources Catalog Docs Support Manage Teacher Demo's Account

Plus Everything in Standard, with these additions... Starting at \$
50 Skills (per Instance), Each with Unlimited Dialog Nodes
Up to 3 Instances
Disambiguation
Intent Recommendations
Intent Conflict Detection
Service Desk Integrations

Premium Everything in Plus, with these additions...
Analytics Dashboard with 90 Days of Storage
Up to 30 Instances with the ability to share log and analytics data across them
Usage and Training Data is Private + Stored in an Isolated Single Tenant Environment
Mutual Authentication
Option to Disable Analytics Logging
50 Versions per Dialog Skill
HIPAA - Washington DC Only

Summary

Watson Assistant Free
Region: London
Plan: Lite
Service name: Put Any Name In Here
Resource group: Default

Create Add to estimate View terms

Configure your resource

Service name: Put Any Name In Here Select a resource group: Default

Tags: Examples: env:dev, version-1

Enter in details for the Assistant service that you will create

“Service name” is a name to help you remember what you will use this for.

The name doesn't really matter.

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Chrome File Edit View History Bookmarks People Window Help

Watson Assistant - IBM Cloud

cloud.ibm.com/catalog/services/watson-assistant

IBM Cloud Search resources and offerings... My Resources Catalog Docs Support Manage Teacher Demo's Account

Plus

Everything in Standard, with these additions...

50 Skills (per Instance), Each with Unlimited Dialog Nodes
Up to 3 Instances
Disambiguation
Intent Recommendations
Intent Conflict Detection
Service Desk Integrations

Premium

Everything in Plus, with these additions...

Analytics Dashboard with 90 Days of Storage
Up to 30 Instances with the ability to share log and analytics data across them
Usage and Training Data is Private + Stored in an Isolated Single Tenant Environment
Mutual Authentication
Option to Disable Analytics Logging
50 Versions per Dialog Skill
HIPAA - Washington DC Only

Starting at \$

Summary

Watson Assistant Free

Region: London
Plan: Lite
Service name: Put Any Name In Here
Resource group: Default

Create

Add to estimate

[View terms](#)

Configure your resource

Service name: Put Any Name In Here

Select a resource group: Default

Tags: Examples: env:dev, version-1

When you've chosen the Pricing Plan to use, click "Create"

(Remember: Come back to the Catalog and create another one if this won't cover what you need for your class).

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Chrome File Edit View History Bookmarks People Window Help

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IBM Watson Service Page

https://cloud.ibm.com/services/conversation/crn%3Av1%3Abluemix%3Apublic%3Aconversation%3Aeu-gb%3Aa%2F478b90306e454316a7937...

Incognito

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Resource list / Put Any Name In Here

Resource group: Default Location: London Add Tags

Get started by launching the tool.

Plan: Lite Upgrade

Launch tool Getting started tutorial API reference

Credentials

Download Show Credentials

API Key: Download

URL: https://gateway-lon.watsonplatform.net/assistant/api Download

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

This is the confirmation screen once you've created your Watson Assistant instance.

Click **Show Credentials** next to the eyeball in the “Credentials” box.

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:21

IBM Watson Service Page +

https://cloud.ibm.com/services/conversation/crn%3Av1%3Abluemix%3Apublic%3Aconversation%3Aeu-gb%3Aa%2F478b90306e454316a7937... Incognito

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Resource list / Put Any Name In Here

Resource group: Default Location: London Add Tags

Get started by launching the tool. Plan: Lite Upgrade

Launch tool Getting started tutorial API reference

Credentials Download Hide Credentials

API Key: 8rUub051ofCJYCrajq4obwxEhcomj0QlMvDg7i1Lysjy

URL: https://gateway-lon.watsonplatform.net/assistant/api

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Copy the “API Key” value.

This is what you need to put into machinelearningforkids.co.uk

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100% Fri 19 Apr 23:23

IBM Watson Service Page cloud.ibm.com/services/conversation/crn%3Av1%3Abluemix%3Apublic%3Aconversation%3Aeu-gb%3Aa%2F6a9ef7f3bdbf4d018307a768ec3b2475%3A46cde051... Incognito (3)

IBM Cloud Search resources and offerings... My Resources Catalog Docs Support Manage Teacher Demo's Account

Resource list / Put Any Name In Here

Resource group: Default Location: London Add Tags

Get started by launching the tool. Plan: Lite Upgrade

Launch Watson Assistant Getting started tutorial API reference

Credentials Download Show Credentials

API Key: URL: https://gateway-lon.watsonplatform.net/assistant/api

https://cloud.ibm.com/resources

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Click on the three lines near the top left to find the menu that will get you back to the “Resource List”

Chrome File Edit View History Bookmarks People Window Help

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Resource list - IBM Cloud

https://cloud.ibm.com/resources

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account Create resource

Resource list

Create resource

Collapse all | Expand all

Name	Group	Location	Status	Tags
<input type="text"/> Filter by name or IP address...	<input type="text"/> Filter by group or org...	<input type="text"/> Filter...	<input type="text"/> Filter...	<input type="text"/> Filter...
> Devices (0)				
> Kubernetes Clusters (0)				
> Cloud Foundry Apps (0)				
> Cloud Foundry Services (0)				
Services (1)				
<input type="text"/> Put Any Name In Here	Default	London	Provisioned	--
> Storage (0)				
> Cloud Foundry Enterprise Environments (0)				
> Apps (0)				

The Resource List shows the services that you've created.

If you go click Create resource and create another Watson Assistant service, you'll see each of them in the list here.

FEEDBACK

1.
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Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

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Catalog - IBM Cloud

cloud.ibm.com/catalog?search=label%3Alite

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Try the best of the Catalog for free with no time restrictions with Lite plans. The Lite filter is enabled. Remove the filter to see the full Catalog.

Catalog

All Categories (51) >

Compute

Containers and VMs

 Container Registry IBM
Securely store container images and monitor their vulnerabilities in a private registry.
APIs and services

Cloud Foundry

 Cloud Foundry IBM
Run your Cloud Foundry application in either a multi-tenant, or an isolated environment (Cloud Foundry Enterprise).
Cloud Foundry apps

Containers

Offering type

APIs and services
 Cloud Foundry apps

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

label:lite

FEEDBACK

Click Create resource in the top right of the resource list

This is where you find the range of services that are available in IBM Cloud.

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Catalog - IBM Cloud

cloud.ibm.com/catalog?search=label%3Alite%20visual%20rec

IBM Cloud Search resources and offerings... My Resources Catalog Docs Support Manage Teacher Demo's Account

Try the best of the Catalog for free with no time restrictions with Lite plans.
The Lite filter is enabled. Remove the filter to see the full Catalog.

Catalog

All Categories (1) >

AI

Visual Recognition
IBM

Find meaning in visual content! Analyze images for scenes, objects, and other content. Choose a default model off the shelf, or create your... APIs and services

FEEDBACK

Looking for more?

Check out the IBM Cloud experimental services to try out experimental runtimes and services.

IBM Cloud Experimental Services

Offering type

APIs and services

Cloud Foundry apps

1. Create your IBM Cloud account

2. Create credentials for text projects

3. Create credentials for images projects

4. Billing

Find “Visual Recognition” in the list.

The filter at the top is a good way to help you do that.

Click on “Visual Recognition”

Chrome File Edit View History Bookmarks People Window Help

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Visual Recognition - IBM Cloud +

https://cloud.ibm.com/catalog/services/visual-recognition

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

View all

Visual Recognition

Lite • IBM

Find meaning in visual content! Analyze images for scenes, objects, faces, and other content. Choose a default model off the shelf, or create your own custom classifier. Develop smart applications that analyze the visual content of images or video frames to understand what is happening in a scene.

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

AUTHOR IBM
PUBLISHED 19/04/2019
TYPE Service

Service name:

Put Another Name In Here

Choose a region/location to deploy in:

Dallas

Select a resource group: [i](#)

Default

Tags: [i](#)

Examples: env:dev, version-1

Features

• General Model

• Food Model

Add to estimate

Create

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

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Enter in details for the Visual Recognition service that you will create

“Service name” is a name to help you remember what you will use this for.

The name doesn't really matter.

Scroll down to see the rest of the options before you click the Create button!

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:26

Visual Recognition - IBM Cloud x +

https://cloud.ibm.com/catalog/services/visual-recognition

Incognito

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Pricing Plans

Monthly prices shown are for country or region: [United States](#)

PLAN	FEATURES	PRICING
Lite	<p>1,000 Events per month towards:</p> <ul style="list-style-type: none">Pre-trained model classification (General, Face, Food, Explicit) (images)Custom Model classification (images)Custom Model training (images)2 Custom Models1 Lite Plan instance per IBM Cloud OrganizationFree Exports to Core ML	Free
Standard	<p>Image Tagging Events Pay per Use</p> <ul style="list-style-type: none">Face Detection Events Pay per UseTraining Events Pay per UseCustom Tagging Events Pay per UseFood Tagging Events Pay per UseExplicit Tagging Events Pay per Use	<p>\$0.002 USD/General Tagging Event</p> <p>\$0.004 USD/Facial Recognition Event</p> <p>\$0.10 USD/Training</p>

The Lite Plan gets you started with 1,000 events (images) per month and the ability to train two Custom Models. Users wishing to use more premium features or increase usage must upgrade to a Standard Plan or a Subscription Plan.

Lite plan services are deleted after 30 days of inactivity.

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

Add to estimate

Create

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Pricing Plans are at the bottom.

The Lite plan will only let you create two machine learning models for images projects.

Using the ML models from Scratch projects is Free in the “Lite” Plan (up to 1000 times per day)

Chrome File Edit View History Bookmarks People Window Help

Visual Recognition - IBM Cloud x +

https://cloud.ibm.com/catalog/services/visual-recognition

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Lite 1,000 Events per month towards: Pre-trained model classification (General, Food, Explicit) (images) Custom Model classification (images) Custom Model training (images) 2 Custom Models 1 Lite Plan instance per IBM Cloud Organization Free Exports to Core ML Free

✓ Standard Access to everything from the Lite Plan including... Train up to 100,000 images per month (only charged if training occurs during the month) Unlimited image classifications per month (charged per image) Unlimited custom models Unlimited free exports to Core ML \$0.002 USD/General Tagging Event \$0.002 USD/Custom Tagging Events \$0.002 USD/Food TaggingEvents \$0.002 USD/Explicit Tagging Events \$0.002 USD/Object Detection Events \$50.00 USD/Training Events

Add to estimate Upgrade

Upgrade your account to use this pricing plan

Need Help? Contact IBM Cloud Support ↗

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Pricing Plans are at the bottom.

With the “Standard” plan, creating machine learning models for images projects will cost \$50 or £35.13 per month.

You can train as many models as you like during the month.

The total number of training images for all of these models must not exceed 100,000.

Using the ML model from Scratch projects costs £0.00121 in the Standard Plan every time you use the model to recognise an image.

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100% Fri 19 Apr 23:26

Visual Recognition - IBM Cloud +

https://cloud.ibm.com/catalog/services/visual-recognition

Incognito :

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Pricing Plans

Monthly prices shown are for country or region: [United States](#)

PLAN	FEATURES	PRICING
Lite	<p>1,000 Events per month towards: Pre-trained model classification (General, Face, Food, Explicit) (images) Custom Model classification (images) Custom Model training (images) 2 Custom Models 1 Lite Plan instance per IBM Cloud Organization Free Exports to Core ML</p> <p>The Lite Plan gets you started with 1,000 events (images) per month and the ability to train two Custom Models. Users wishing to use more premium features or increase usage must upgrade to a Standard Plan or a Subscription Plan.</p> <p>Lite plan services are deleted after 30 days of inactivity.</p>	Free
Standard	<p>Image Tagging Events Pay per Use Face Detection Events Pay per Use Training Events Pay per Use Custom Tagging Events Pay per Use Food Tagging Events Pay per Use Explicit Tagging Events Pay per Use</p>	<p>\$0.002 USD/General Tagging Event \$0.004 USD/Facial Recognition Event \$0.10 USD/Training</p>

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

Add to estimate

Create

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

When you've chosen the Pricing Plan to use, click "Create"

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100% Fri 19 Apr 23:29

IBM Watson Service Page +
<https://cloud.ibm.com/services/watson-vision-combined/crn%3Av1%3Abluemix%3Apublic%3Awatson-vision-combined%3Aus-south%3Aa%2F...> Incognito

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Resource list / Put Another Name In Here

Resource group: Default Location: Dallas Add Tags

Show credentials

Curl Go Java Node More

Getting started tutorial

Last Updated: 2019-03-19

This tutorial guides you through how to use some built-in models in IBM Watson™ Visual Recognition to classify an image and then detect faces in an image.

Tip: If you prefer to work in a graphical interface, use Watson Studio. [Launch the tool](#) and follow the [video](#).

Before you begin

- Make sure that you have the `curl` command.
 - Test whether `curl` is installed. Run the following command on the command line. If the output lists the `curl` version with SSL support, you are set for the tutorial.

1. Create your IBM Cloud account
2. Create credentials for text projects
3. Create credentials for images projects
4. Billing

This is the confirmation screen once you've created your Watson Visual Recognition instance.

Click the “Service Credentials” link on the left side menu.

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:30

IBM Watson Service Page

https://cloud.ibm.com/services/watson-vision-combined/crn%3Av1%3Abluemix%3Apublic%3Awatson-vision-combined%3Aus-south%3Aa%2F...

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Resource list / Put Another Name In Here

Resource group: Default Location: Dallas Add Tags

Service credentials

Manage Getting started Service credentials Plan Connections

Service credentials

Credentials are provided in JSON format. The JSON snippet lists credentials, such as the API key and secret, as well as connection information for the service. [Learn more](#)

New credential +

KEY NAME	DATE CREATED	ACTIONS
<input type="checkbox"/> Auto-generated service credentials	19 APR 2019 - 11:29:26 PM	View credentials

Click the “View credentials” link in the Actions menu at the bottom

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Chrome File Edit View History Bookmarks People Window Help

100% Fri 19 Apr 23:30

IBM Watson Service Page +

https://cloud.ibm.com/services/watson-vision-combined/crn%3Av1%3Abluemix%3Apublic%3Awatson-vision-combined%3Aus-south%3Aa%2F... Incognito

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Put Another Name In Here

Resource group: Default Location: Dallas [Add Tags](#)

Service credentials

Items per page **10** | 1-1 of 1 items

New credential **+**

1 of 1 pages < 1 >

<input type="checkbox"/> KEY NAME	DATE CREATED	ACTIONS
<input type="checkbox"/> Auto-generated service credentials	19 APR 2019 - 11:29:26 PM	View credentials

```
{  
  "apikey": "ZW8HN8PmUylG_qzDlyRhXne_gd2eF90zkueNk2gDIouk",  
  "iam_apikey_description": "Auto generated apikey during resource-key operation for Instance - crn:v1:bluemix:public:watson-vision-combined:us-south:a/478b90306e454316a79378b78a0ef22b:ecd8d2b7-7a5e-46fc-aae0-546a31bae25b::",  
  "iam_apikey_name": "auto-generated-apikey-29138c95-6dfc-4fe4-9957-ad38b44e3717",  
  "iam_role_crn": "crn:v1:bluemix:public:iam::::serviceRole:Manager",  
  "iam_serviceid_crn": "crn:v1:bluemix:public:iam-identity::a/478b90306e454316a79378b78a0ef22b::serviceid:ServiceId-26195fc6-ddc0-47d4-83b4-d8be7fff0aea",  
  "url": "https://gateway.watsonplatform.net/visual-recognition/api"  
}
```

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Copy the “apikey” value.

This is what you need to put into machinelearningforkids.co.uk

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100% Fri 19 Apr 23:31

IBM Watson Service Page

https://cloud.ibm.com/services/watson-vision-combined/crn%3Av1%3Abluemix%3Apublic%3Awatson-vision-combined%3Aus-south%3Aa%2F...

Incognito

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Dashboard Resource List Cloud Foundry Kubernetes Classic Infrastructure VMware APIs Apple Development Blockchain DevOps Finance Functions Integrate Managed Solutions

Put Another Name In Here

Resource group: Default Location: Dallas Add Tags

Service credentials

New credential +

Items per page 10 | 1-1 of 1 items 1 of 1 pages < 1 >

<input type="checkbox"/> KEY NAME	DATE CREATED	ACTIONS
<input type="checkbox"/> Auto-generated service credentials	19 APR 2019 - 11:29:26 PM	View credentials

```
{ "apikey": "ZW8HN8PmUylG_qzDlyRhXne_gd2eF90zkueNk2gDIouk", "iam_apikey_description": "Auto generated apikey during resource-key operation for Instance - crn:v1:bluemix:public:watson-vision-combined:us-south:a/478b90306e454316a79378b78a0ef22b:ecd8d2b7-7a5e-46fc-aae0-546a31bae25b:::", "iam_apikey_name": "auto-generated-apikey-29138c95-6dfc-4fe4-9957-ad38b44e3717", "iam_role_crn": "crn:v1:bluemix:public:iam::::serviceRole:Manager", "iam_serviceid_crn": "crn:v1:bluemix:public:iam-identity:a/478b90306e454316a79378b78a0ef22b::serviceid:ServiceId-26195fc6-ddc0-47d4-83b4-d8be7fff0aea", "url": "https://gateway.watsonplatform.net/visual-recognition/api" }
```

https://cloud.ibm.com/resources

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Click on the three lines near the top left to find the menu that will get you back to the “Resource List”

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100% Fri 19 Apr 23:32

Resource list - IBM Cloud +
https://cloud.ibm.com/resources Incognito

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account Create resource

Resource list

[Collapse all](#) | [Expand all](#)

Name	Group	Location	Status	Tags
<input type="text"/> Filter by name or IP address...	<input type="text"/> Filter by group or org...	<input type="text"/> Filter...	<input type="text"/> Filter...	<input type="text"/> Filter...
> Devices (0)				
> Kubernetes Clusters (0)				
> Cloud Foundry Apps (0)				
> Cloud Foundry Services (0)				
▼ Services (2)				
Put Another Name In Here	Default	Dallas	Provisioned	--
Put Any Name In Here	Default	London	Provisioned	--
> Storage (0)				
> Cloud Foundry Enterprise Environments (0)				
> Apps (0)				

The Resource List shows the services that you've created.

FEEDBACK

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

For **text** projects, you'll need to create **Watson Assistant** instances

Pricing Plan	How many of these can you create WITHOUT adding a credit card to your account?	How many of these can you create if you add a credit card to your account?	Cost when students click on "Train a new machine learning model"	How many machine learning models can your students have at once?	How much it costs to recognise text from Scratch each time	How many times can students recognise text from Scratch?
Lite	3	No limit	free	5	free	10,000 per month
Standard	0	No limit	free	20	£0.001756	unlimited

For **images** projects, you'll need to create **Watson Visual Recognition** instances

Pricing Plan	How many of these can you create WITHOUT adding a credit card to your account?	How many of these can you create if you add a credit card to your account?	Cost when students click on "Train a new machine learning model"	How many machine learning models can your students have at once?	How much it costs to recognise an image from Scratch each time	How many times can students recognise images from Scratch?
Lite	1	1	free	2	free	1000 per day
Standard	0	No limit	£35.13 per month	unlimited	£0.00121	unlimited

To recap, the prices...

These prices are correct at the time of writing, and are provided as an indicative guide. For the definitive prices, refer to the prices shown in the IBM Cloud catalog.

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Prices here quoted for the UK.

The IBM Cloud catalog will show prices in other currencies for users not in the UK.

IBM Cloud Account Information for Volunteers

Both IBM volunteers and non-IBM volunteers who require Cloud access beyond a Lite account are encouraged to request access to the IBM Citizenship Cloud by sending an email to citizenshipcloud@ibm.com with the following subject line “Citizenship Cloud Access.” In the body of the email, please outline what cloud resources you need and which Activity Kit will be used. Students will get appropriate access directly from their teachers. Volunteers who only require a Lite account do not need to ask for access to the IBM Citizenship Cloud.

[Register for IBM Cloud](#)[More information about IBM](#)

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

Volunteer access to IBM Cloud

see ibm.org/activities for more info

Imagine...

You have a class of **30 children**

They share computers (two children to every computer) so you will have 15 computers and 15 student accounts logged in to machinelearningforkids.co.uk

You choose a project worksheet for the class that involves recognising **text**

An example of IBM Cloud costs for a single Machine Learning for Kids class

Example 1:
A large class working on a text project

You could...

You create **three (3) x Lite Plan** instances of the Watson Assistant service

This will allow all fifteen pairs to train machine learning models
(each Lite Plan allows up to 5 machine learning models)

That means...

There is **no charge** for Lite Plan services.

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

These prices are correct at the time of writing, and are provided as an indicative guide.
For definitive prices, refer to prices shown in the IBM Cloud catalog.

Imagine...

You have a class of **30 children**

You will have 30 computers and 30 student accounts logged in to machinelearningforkids.co.uk

You choose a project worksheet for the class that involves recognising **images**

An example of IBM Cloud costs for a single Machine Learning for Kids class

You could...

You create **one Lite Plan** instance of the Watson Visual Recognition service

You create a “whole class project” for your class, so all your students work together to contribute to the training of a single machine learning model.

They all collect their training data at the same time. You as the teacher will be the one who clicks the “Train new machine learning model” button. They can all use the machine learning model from Scratch at the same time.

That means...

There is **no charge** for Lite Plan services.

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

These prices are correct at the time of writing, and are provided as an indicative guide.
For definitive prices, refer to prices shown in the IBM Cloud catalog.

Imagine...

You have a coding club of **6 children**

They share computers (two children to every computer) so you will have 3 computers and 3 student accounts logged in to machinelearningforkids.co.uk

You choose a project worksheet for the class that involves recognising **images**

An example of IBM Cloud costs for a single Machine Learning for Kids class

You could...

You create **one Lite Plan** instance of the Watson Visual Recognition service

You ask your students to **take turns** to train machine learning models each using 30 example images.

They all collect their training data at the same time, but they need to wait to click the “Train new machine learning model” button one at a time

That means...

There is **no charge** for Lite Plan services.

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

These prices are correct at the time of writing, and are provided as an indicative guide.
For definitive prices, refer to prices shown in the IBM Cloud catalog.

Imagine...

You have a class of **36 children**

They share computers (two children to every computer) so you will have 18 computers and 18 student accounts logged in to machinelearningforkids.co.uk

You choose **3 project worksheets** for the class that all involve recognising **images**

You could...

You create **one Standard Plan** instance of the Watson Visual Recognition service

You plan 3 lessons - one per week, for 3 weeks. You plan to ask your class to do one worksheet each lesson.

In each lesson, you ask your students to train machine learning models each using 30 example images.

In each lesson, you let them each test their machine learning models 10 times.

That means...

Your students will train 54 machine learning models across all 3 lessons (18 students x 3 worksheets)

They will use a total of 1,620 training images across all 3 lessons (18 students x 30 images x 3 worksheets)

Training their machine learning models will be covered by the £35.13 monthly cost.

Testing their models will cost approx £0.87 (18 students x 10 images x 3 worksheets x £0.001617 cost)

Cost for all three lessons could total approx £36

An example of IBM Cloud costs for a single Machine Learning for Kids class

Example 4:
A large class working on images projects over three lessons

These prices are correct at the time of writing, and are provided as an indicative guide.

For definitive prices, refer to prices shown in the IBM Cloud catalog.

Prices here quoted for the UK.

The IBM Cloud catalog will show prices in other currencies for users not in the UK.

1.

Create your IBM Cloud account

2.

Create credentials for text projects

3.

Create credentials for images projects

4.

Billing

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100% Fri 19 Apr 23:53

IBM Cloud Account

https://cloud.ibm.com/account/settings

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Account settings

Account
Teacher Demo's Account ID: 478b90306e454316a79378b78a0ef22b

Account Type
Lite (Free)

256 MB of free memory each month, free Lite plan services to choose from, and easy to upgrade when you're ready for more.

Account upgrade

Pay-As-You-Go
Add your credit card to unlock the full power of IBM Cloud with a Pay-As-You-Go account. You'll still be eligible for free runtime and service allowances, and you'll be charged only for paid services that you use.

Subscription
Get discounted pricing and increased billing predictability when you commit to a set amount of usage over time.

Need help?
[Contact sales](#)

[Upgrade](#)

[Add credit card](#)

1. Create your IBM Cloud account
2. Create credentials for text projects
3. Create credentials for images projects
4. Billing

You can just use Lite Plan services at no charge.

Or, click **Add credit card** to enable access to Standard Plan services.

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IBM Cloud Account x

https://cloud.ibm.com/account/settings

Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Account Overview Account resources Best practices Resource groups Cloud Foundry orgs Tags Audit log Account settings Notifications Company contacts Company profile

Upgrade to Pay-As-You-Go

Add your credit card and unlock access to the full catalog.

There's no minimum charge and you'll only pay for what you use. Keep all your current free capabilities and get a whole lot more:

- Continued access to Lite plans
- Additional free Cloud Foundry memory to 512 MB
- Access to all free plans in the catalog
- Ability to purchase infrastructure resources

Get started with a \$200 credit!

Billing Information

Company Account Personal Account

First Name: Teacher Last Name: Demo

Address Line 1: Enter street address, PO Box

Address Line 2 (optional): Enter apartment, suite, unit, building, or floor

Country/Region: United Kingdom City: Enter city

ZIP/Postal code:

You can just use Lite Plan services at no charge.

Or, click Add credit card to enable access to Standard Plan services.

You may get \$200 of credit in your account if you do this. Refer to IBM Cloud for current promotions for new accounts.

1.
Create your IBM Cloud account

2.
Create credentials for text projects

3.
Create credentials for images projects

4.
Billing

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Resource list - IBM Cloud

https://cloud.ibm.com/resources

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Teacher Demo's Account

Create resource

Account Billing and usage Access (IAM)

Resource list

Name Group Location Tags

Filter by name or IP address... Filter by group or org... Filter... Filter... Filter...

> Devices (0)

> Kubernetes Clusters (0)

> Cloud Foundry Apps (0)

> Cloud Foundry Services (0)

< Services (2)

Put Another Name In Here	Default	Dallas	Provisioned	--	•••
Put Any Name In Here	Default	London	Provisioned	--	•••

> Storage (0)

> Cloud Foundry Enterprise Environments (0)

> Apps (0)

FEEDBACK

The Billing and usage pages will let you keep track of your usage of Watson services.

1. Create your IBM Cloud account
2. Create credentials for text projects
3. Create credentials for images projects
4. Billing