

Agenda



Compute options

- Infrastructure
- Cloud Foundry
- IBM Cloud Function
- IBM Cloud Services
 - Watson Services
 - Watson Studio
- IBM Cloud Account
 - Promo Code
 - Prepare environment

IBM offers the complete spectrum of cloud deployment models



Choice with consistency



Hybrid integration



DevOps productivity



Powerful, accessible data and analytics



Cognitive solutions

1 | Public

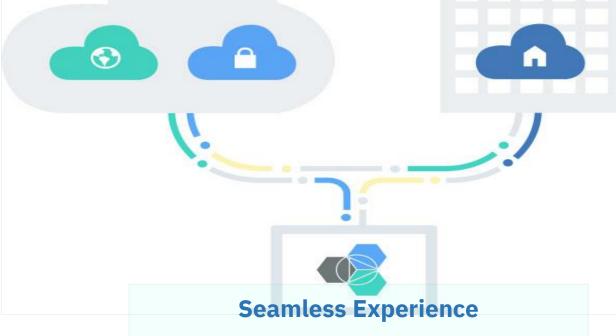
Maximize on cloud agility and economics.

2 | Dedicated

Public cloud benefits, with dedicated infrastructure.

3 | Private

Behind the firewall for the most demanding workloads.



Regardless of which combination you choose, you get a single, seamless experience.

Full spectrum of compute options for any workload, across global infrastructure





Portability

Development _ Speed



Bare Metal

Maximum performance and control



Virtual Server

Leverage existing languages and tools



Containers

Maximum portability



Platform as a Service

Extensive runtime options



Serverless

Maximum speed with serverless apps



Compute Infrastructure

SAP Certified Servers



Build, deliver, and run SAP applications in the cloud

Bare Metal Servers



Raw IaaS horsepower for processor-intensive and disk I/O-intensive workloads

Virtual Servers





Fast deployment when resources are needed on the fly

GPU Computing



Handle complex, computeintensive workloads, including analytics, graphics, and AI

POWER Servers



Develop, test, and run Linux applications

Server Software



Operating systems to control panels to simplify IaaS administration

Public Services













Block and File

Object

Mass Data Migration

Backup

Mass Storage Servers

For when you need...

- File sharing
- Local archiving
- Data protection
- Data bases
- Email servers
- RAID
- Virtual machines

- Huge data storage
- API driven web applications support
- Big archived backups
- Cost effective dynamic data accessibility

- To move TBs of data to the cloud
- Sensitive data solutions
- Economical storage to cloud pricing
- Limited internet connection support
- Data center decommission strategy

- Copies and instances of data
- Full control over maintenance, management, retrieval and restoration
- Customizable choices
- Turnkey or custom-built options

- Private SAN/NAS storage
- Unlimited access
- Dataintensive, redundant power solutions
- High performance and functionality

IBM Cloud/ © 2018 IBM Corporation



IBM Kubernetes Service

Combining Docker and Kubernetes to deliver powerful tools, an intuitive user experience, and built-in security and isolation to enable rapid delivery of applications - all while leveraging IBM Cloud Services including cognitive capabilities from Watson.

https://www.ibm.com/cloud/container-service

Kubernetes Certified Service Provider
Kubernetes Technology Partner
Kubernetes Service Providers



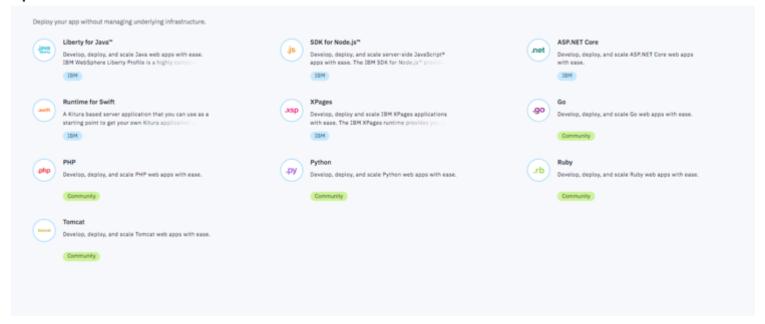


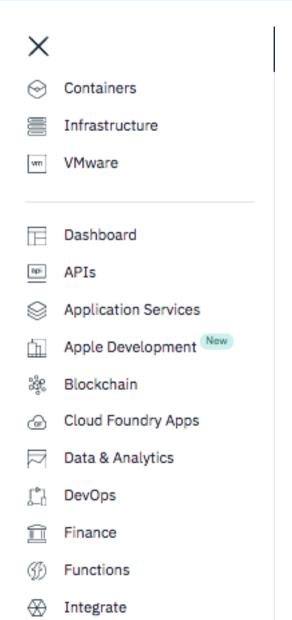
Cloud Foundry: Instant Runtimes



Cloud Foundry is an open source PaaS that <u>lets developers focus on their application code and let the platform handle the rest (runtime, scaling, networking, operating system).</u>

IBM Cloud extends Cloud Foundry with a number of managed runtimes and services, enterprise-grade DevOps tooling, and a seamless overall developer experience.





Run your app in seconds

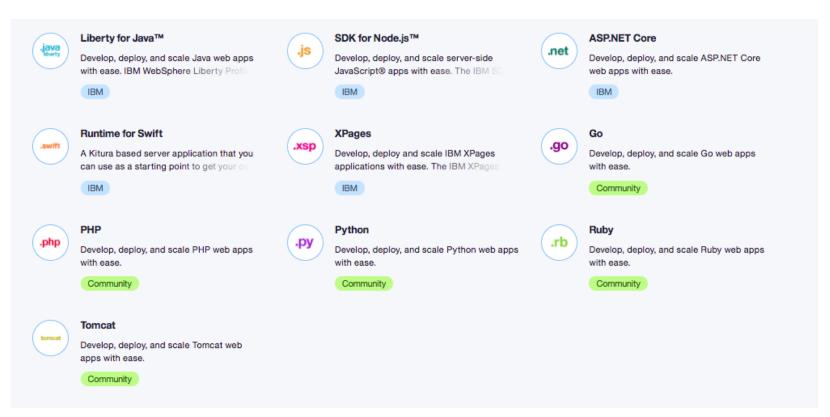


No VM or middleware setup

- Provision runtimes in seconds
- Auto and manual scaling options

Multiple language support

- Java Liberty, JavaScript, Ruby, Go, PHP, python provided
- Bring any language from the community thru Buildpacks
- List of Buildpack examples :



github.com/cloudfoundry-community/cf-docs-contrib/wiki/Buildpacks

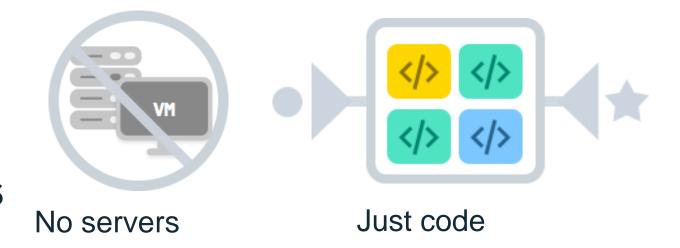
IBM Cloud Functions



A Serverless Platform for Event-Driven Compute

Runs code **only** on-demand on a per-request basis

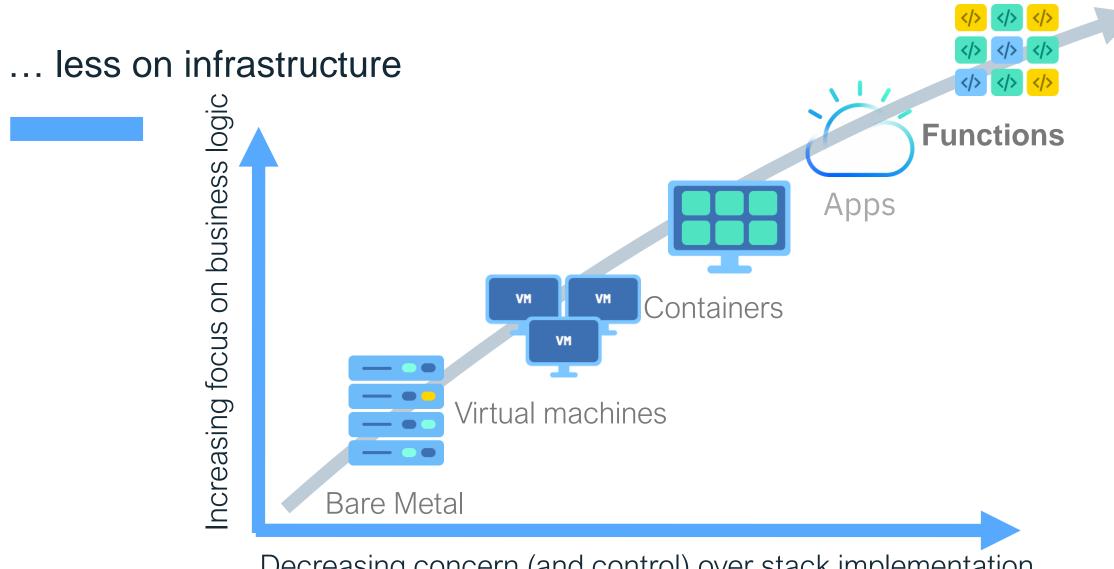
No management and operation of infrastructures



Focus on developing valueadding code and on driving innovations

Focus more on code...





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IBM Cloud managed services

- Building blocks of applications running in IBM Cloud runtimes available as infrastructure or platform.
- Add ready to use features and functionality to application code
- Covers AI, Internet of Things, Analytics, DevOps, Blockchain, Storage and many more...
- Are provided by IBM, Open-source communities and third-party partners



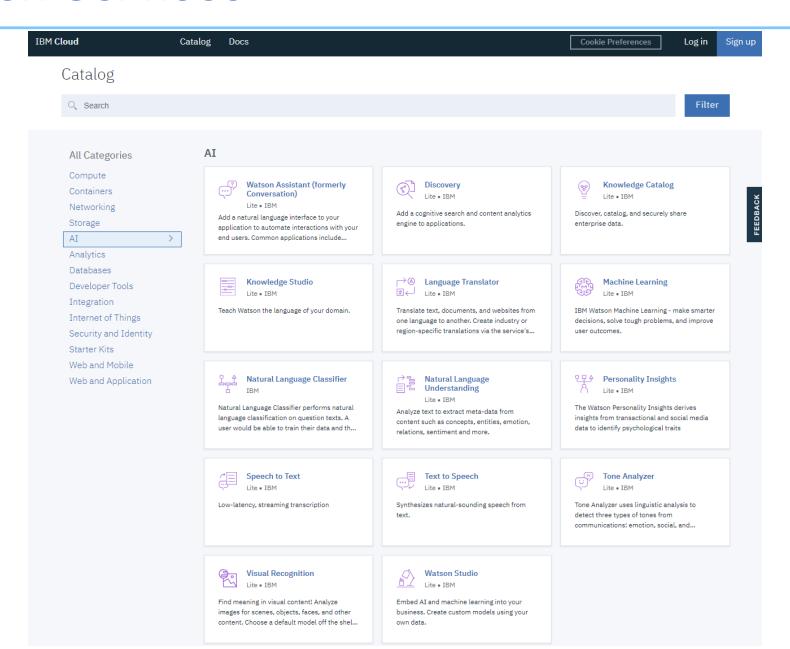
- Containers
- Infrastructure
- VMware

Dashboard

- APIs
- Apple Development New
- Blockchain
- DevOps
- Finance
- **Functions**
- Integrate
- Mobile
- Security
- Watson
- Web Apps

Al: Watson Services





Watson Studio Supporting the end-to-end AI workflow

Connect & Access Data

Search and Find Relevant Data

Prepare Data for Analysis

Build and Train ML/DL Models

Deploy Models

Monitor, Analyze and Manage

Connect and discover content from multiple data sources in the cloud or on premises. Bring structured and unstructured data to one toolkit.

Find data (structured, unstructured) and AI assets (e.g., ML/DL models, notebooks, Watson Data Kits) in the Knowledge Catalog with intelligent search and giving the right access to the right users.

Clean and prepare your data with **Data Refinery**, a tool to create data preparation pipelines visually.
Use popular open source libraries to prepare unstructured data.

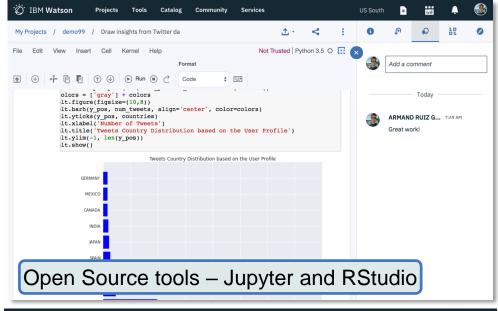
Democratize the creation of ML and DL models. Design your AI models programmatically or **visually** with the most popular open source and IBM ML/DL frameworks or leverage transfer learning on **pre**trained models using Watson tools to adapt to your business domain. Train at scale on **GPUs** and distributed compute

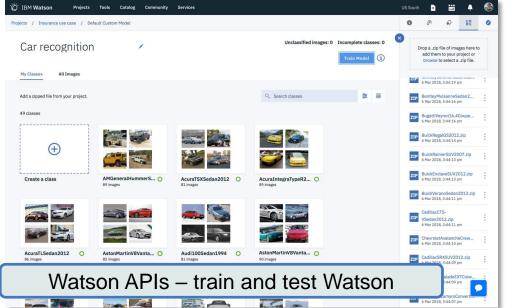
Deploy your models easily and have them scale automatically for online, batch or streaming use cases

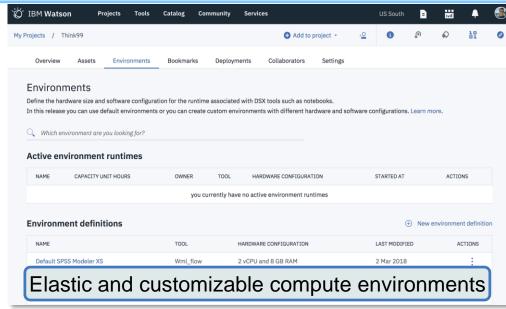
Monitor the performance of the models in production and trigger automatic retraining and redeployment of models. Build **Enterprise Trust** with Bias Detection, Mitigation Model **Robustness** and Testing Service Model **Security**.

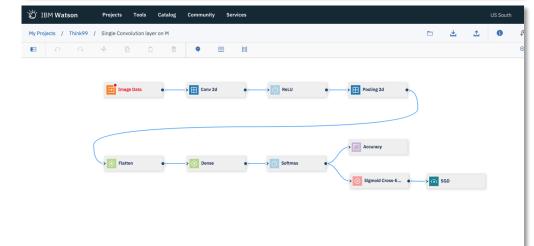
Watson Studio







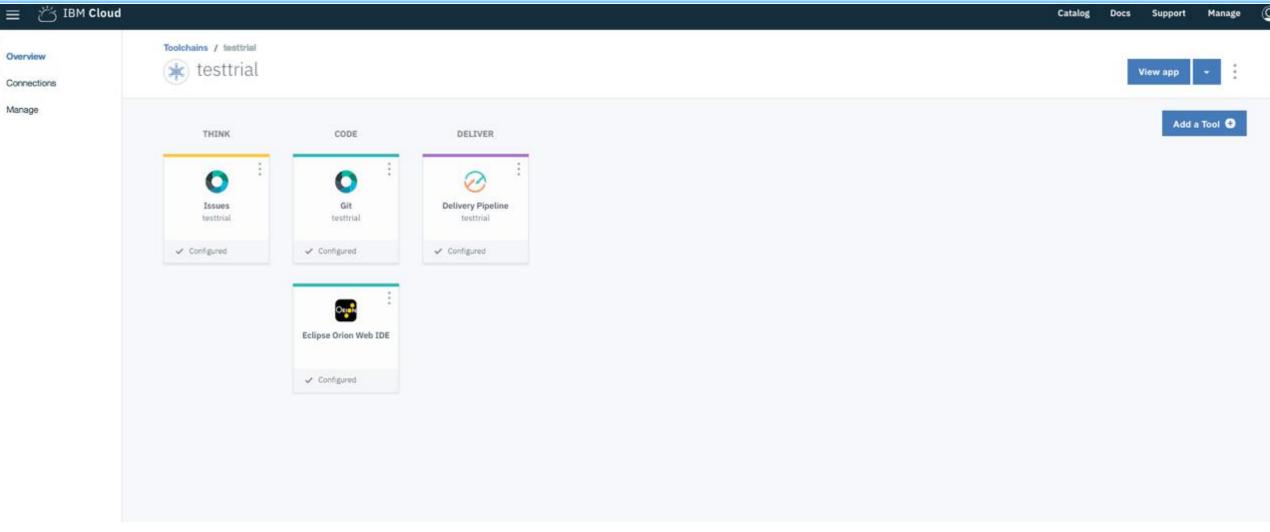




Create ML flows and design Neural Networks visually

DevOps Toolchain: Add tools to your toolchain

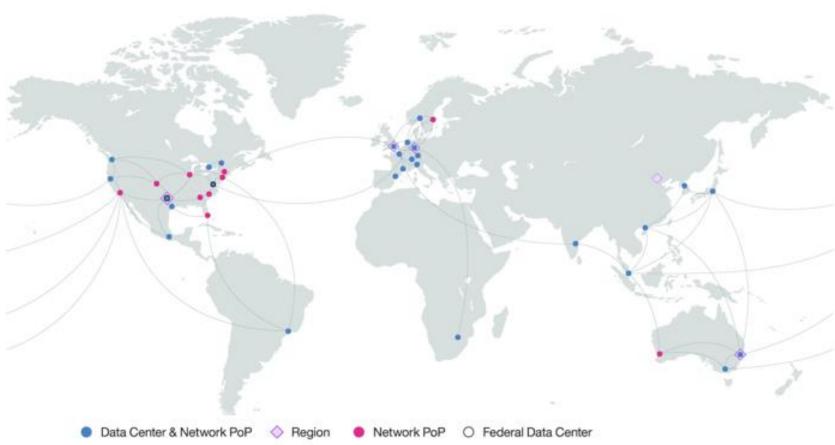




IBM Cloud Regions



Nearly 60 IBM Cloud data centers around the world:



IBM Cloud Public Regions:

US South

API endpoint: api.ng.bluemix.net

US East

API endpoint: api.us-east.bluemix.net

• <u>United Kingdom</u>

API endpoint: api.eu-gb.bluemix.net

Frankfurt

API endpoint: api.eu-de.bluemix.net

Sydney

API endpoint: api.au-syd.bluemix.net

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IBM Cloud lite account



- Free account
- No time limit
- Learn, explore and build POCs
- One Cloud Foundry Organization in one Region
- One Resource Group
- Auto sleep, garbage collection, alerts before approaching data thresholds
- 256 MB of Cloud Foundry runtime memory
- Kubernetes Cluster Lite Plan: 2 CPUs, 4 GB RAM
- Access to usage capped plans for services with Lite label

Pay-As-You-Go and Subscription Accounts



- Access to the full catalog, including the free plans
- Production use cases
- Multiple resource groups
- Pay-as-you-go:
 - Monthly IBM Cloud invoice
 - charges are based on your use of IBM Cloud compute and services
- Subscription:
 - get a monthly discount based on a minimum monthly spending
 - commitment, negotiated pricing

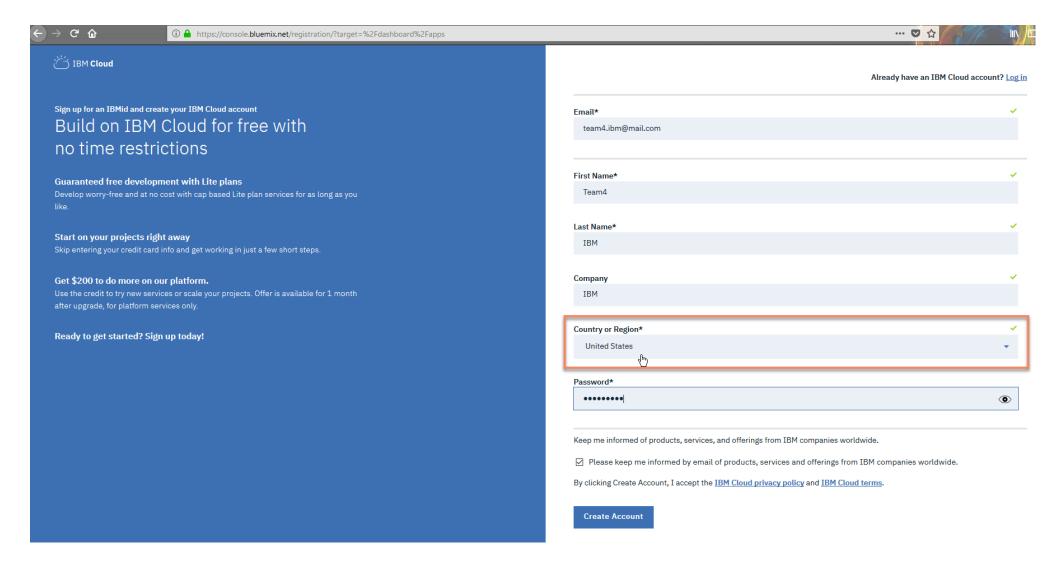
Account Structure



- An IBM Cloud account is organized into
 - Resource groups
 - Cloud Foundry organizations and spaces
 - Regions
- Cloud foundry
 - services and applications are assigned to a space
 - a cloud foundry space is assigned to one organization and one region
 - a cloud foundry organization can have multiple spaces in multiple regions
- Resource groups
 - Independent of cloud foundry spaces
 - Organize your account resources in customizable groups

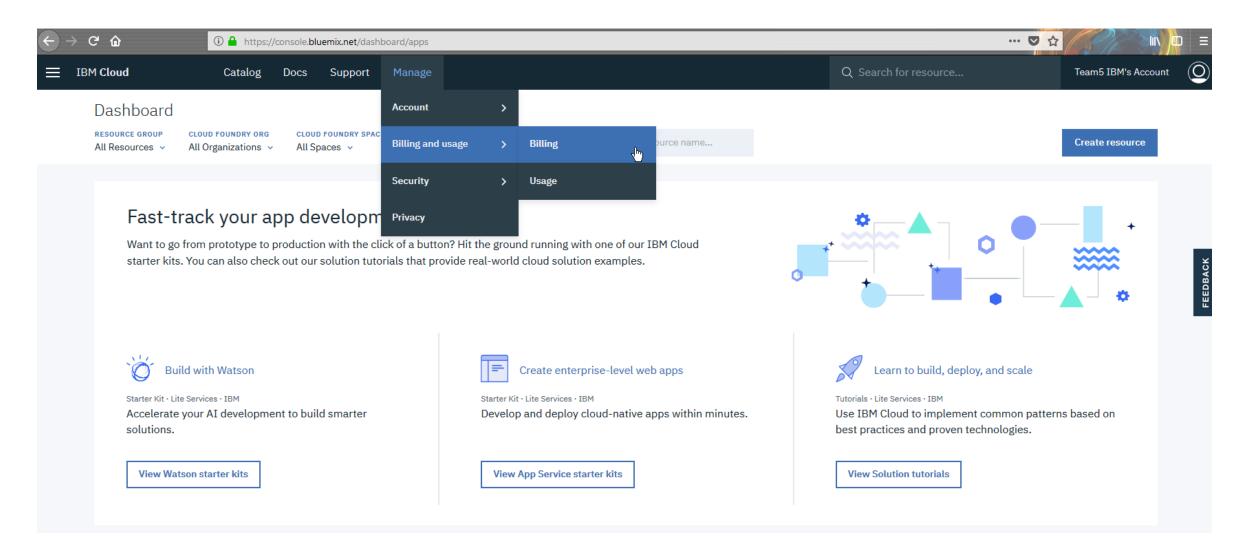
Create your IBM Cloud Account (US South Region)





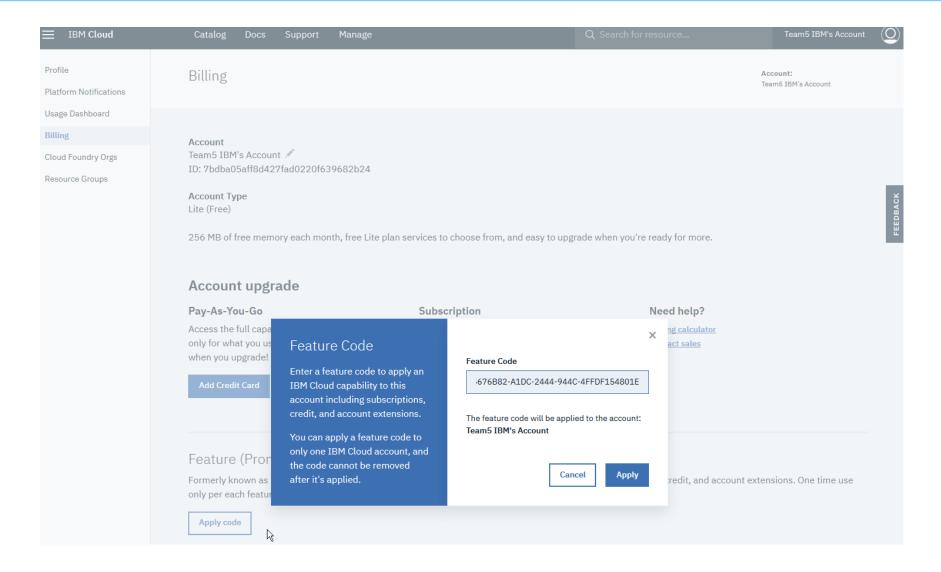
Add promo code





Add promo code





Add promo code



Feature Code

Applied: 35676B82-A1DC-2444-944C-4FFDF154801E The following changes have been applied to the account, Team5 IBM's Account.

- Converted Lite account to trial account.
- This trial account is valid for 185 days.
- Updated Cloud Foundry org quota to 16GB.

Enter another code

Close