

IBM Bluemix with git

Jerry



What is Git ?

Git [編輯]

Git是一個分散式版本控制軟體，最初由林納斯·托瓦茲（Linus Torvalds）創作，於2005年以**GPL**釋出。最初目的是為更好地管理**Linux**內核開發而設計。應注意的是，這與GNU Interactive Tools^[5]（一個類似**Norton Commander**介面的檔案管理器）有所不同。

Git最初的開發動力來自於**BitKeeper**和**Monotone**^{[6][7]}。Git最初只是作為一個可以被其他前端（比如**Cogito**或**StGIT**^[8]）包裝的後端而開發的，但後來Git內核已經成熟到可以獨立地用作版本控制^[9]。很多著名的軟體都使用Git進行版本控制^[10]，其中包括**Linux**內核、**X.Org**伺服器和**OLPC**內核等專案的開發流程^[11]。

目錄 [隱藏]

- 1 命名來源
- 2 早期歷史

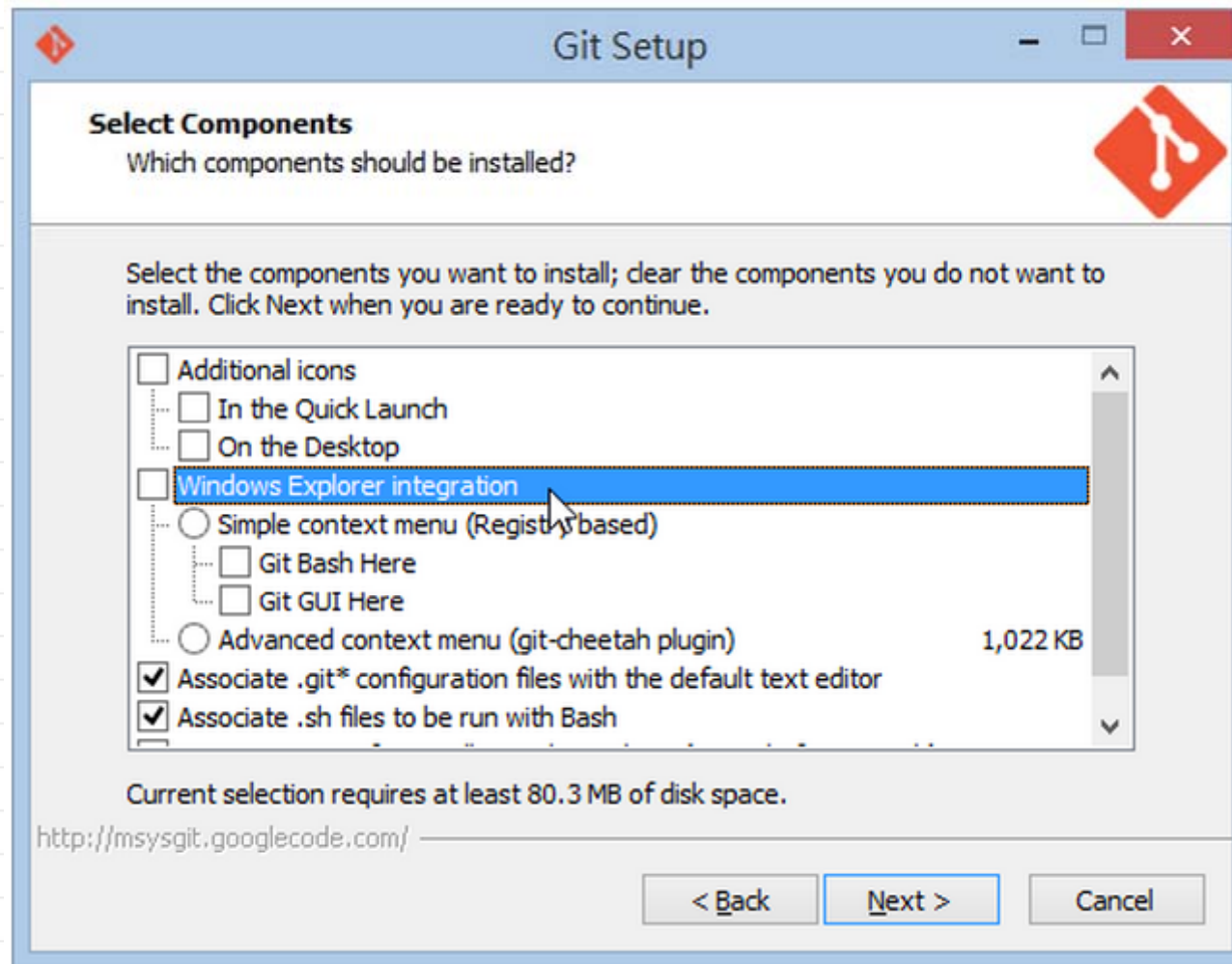


gitweb，Git的一個Web介面。

原作者 林納斯·托瓦茲

開發者 濱野純、林納斯·托瓦茲

Install Git on windows



- 其餘 Default

What is Bluemix

IBM Bluemix is a cloud [platform as a service \(PaaS\)](#) developed by IBM. It supports several [programming languages](#) and services^[1] as well as integrated [DevOps](#) to build, run, deploy and manage applications on the cloud. Bluemix is based on [Cloud Foundry](#) open technology and runs on [SoftLayer](#) infrastructure. Bluemix supports several programming languages^[2] including [Java](#), [Node.js](#), [Go](#), [PHP](#), [Python](#), [Ruby Sinatra](#), [Ruby on Rails](#) and can be extended to support other languages such as [Scala](#)^[3] through the use of buildpacks.^[4]

It took a team of people located in different places only 18 months to build Bluemix from initial concept to public availability.^[5] It was announced as a public beta in February 2014^[6] and generally available in June.

References [\[edit\]](#)


- ^{1.} [^ IBM Bluemix catalog](#)
- ^{2.} [^ What are the languages supported by BlueMix?](#)

IBM Bluemix



The Bluemix logo.

Developer(s)	IBM
Initial release	30 June 2014; 14 months ago
Development status	active
Written in	Python , Java , PHP
Website	http://www.ibm.com/cloud-computing/bluemix/

 IBM Bluemix

DASHBOARD SOLUTIONS CATALOG PRICING DOCS COMMUNITY 376

ORG: jerry@mail.ntust.ed... ▾

Type to search

+ Create a Space

National Taiwan University ... ▾

CF APPS (1)

SERVICES (2)

CONTAINERS (0)

VIRTUAL MACHINES (0)

CF Cloud Foundry Apps
0 B/8 GB Used

CREATE APP

Containers
0 B/2 GB | 0/2 Public IPs

START CONTAINERS

BETA Virtual Machines
0 B/0 B | 0/0 Public IPs

RUN VIRTUAL MACHINES

100+ Services & APIs
2/40 Used

USE SERVICES OR APIS

Applications

What do you want to start with?



Liberty for Java™



SDK for Node.js™



Go



PHP



Python



Ruby



ASP.NET 5



IBM XPages



Community
buildpacks



I Have Code Already



Browse Boilerplates



Liberty for Java™



SDK for Node.js™



Go



PHP



Python



Ruby



ASP.NET 5



IBM XPages



Community
buildpacks



I Have Code Already



Browse Boilerplates

Python

A simple Python application that will get you up and running quickly.

375 GB-hours free each month

[View Docs](#) | [View Details in Catalog](#)

CONTINUE



CF Command Line Interface

Run your code locally.
Manually push to Bluemix.



GIT

Deploy your app with the Git CLI,
or use Bluemix DevOps Services.

Start coding with Git

You can create a hosted Git repository that deploys to IBM® Bluemix™ automatically. Then, you can modify the code that runs in your app by pushing changes to the Git repository.

- 1 To get started, on the app's Overview page, click **ADD GIT**.
- 2 In the window that opens, make sure that the **Populate the repository with the starter application package and enable Delivery Pipeline (Build & Deploy)** check box is selected. The Git repository is created. If starter code is available, it is loaded into the repository. In addition, the application is deployed by the Delivery Pipeline service running in IBM Bluemix DevOps

a. If you use the command line:

- I. Clone your Git repository from the Git URL on the app's Overview page.
- II. In your favorite editor, update the code.
- III. From the Git command line interface, push your changes.

b. If you use the Web IDE:

- I. On the app's Overview page, click **EDIT CODE** . Your project opens in the Web IDE.
- II. Make changes as needed, and then push by using the built-in Git support.

The updated app is redeployed to Bluemix.

 For step-by-step directions, see [Set up Git integration and auto-deployment](#).

[VIEW DOCS](#)

[VIEW APP OVERVIEW](#)



python-git

Routes: python-git.mybluemix.net

ADD GIT



PYTHON

INSTANCES:

1

MEMORY QUOTA:

128

(MB per Instance)

AVAILABLE MEMORY:

7.875 GB

SAVE

RESET



ADD A SERVICE OR API



BIND A SERVICE OR API

APP HEALTH

Your application is staging.

ACTIVITY LOG

- 9/19/15 3:42 PM jerry@mail.ntust.edu.tw started python-git app
- 9/19/15 3:42 PM jerry@mail.ntust.edu.tw updated python-git app
 - changed routes
- 9/19/15 3:41 PM jerry@mail.ntust.edu.tw created python-git app

Estimate the cost of this app





Create Git Repository



請按 **繼續** 以建立與 **python-git** 應用程式相關聯的 Git 儲存庫。將變更推送至此儲存庫將對應應用程式觸發的自動部署。

☒ 請將入門應用程式套件移入至儲存庫，並啟用 Delivery Pipeline（建置及部署）。

繼續

檔案 編輯 檢視 工具 | python-git (執行中：一般) | EDIT CODE TRACK & PLAN BUILD & DEPLOY

▼ 0830 | python-git

▶ .git
▶ launchConfigurations
▶ static
📄 .cfignore
📄 .gitignore
📄 License.txt
📄 manifest.yml
📄 Procfile
📄 project.json
📄 README.md
📄 README.txt
📄 requirements.txt
📄 server.py

▼ README.md

This README.md file is displayed on your project page. You should edit this file to describe your project, including instructions for building and running the project, pointers to the license under which you are making the project available, and anything else you think would be useful for others to know.

We have created an empty license.txt file for you. Well, actually, it says, "<Replace this text with the license you've chosen for your project.>" We recommend you edit this and include text for license terms under which you're making your code available. A good resource for open source licenses is the [Open Source Initiative](#).

Be sure to update your project's profile with a short description and eye-catching graphic.

Finally, consider defining some sprints and work items in Track & Plan to give interested developers a sense of your cadence and upcoming enhancements.

▼ Git

Git Url	https://hub.jazz.net/git/0830/python-git/
Git Repository	Git Repository

```
C:\Users\rippleblue2002\git>git --version  
git version 2.5.3.windows.1
```

```
C:\Users\rippleblue2002\git>git clone https://hub.jazz.net/git/0830/python-git/  
Cloning into 'python-git'...
```

```
Username for 'https://hub.jazz.net': jerry@mail.ntust.edu.tw
```

```
Password for 'https://jerry@mail.ntust.edu.tw@hub.jazz.net':
```

```
remote: Counting objects: 17, done
```

```
remote: Finding sources: 100% (17/17)
```

```
remote: Total 17 (delta 0), reused 17 (delta 0)
```

```
Unpacking objects: 100% (17/17), done.
```

```
Checking connectivity... done.
```

```
C:\Users\rippleblue2002\git>dir
```

```
磁碟區 C 中的磁碟是 OS
```

```
磁碟區序號: 56CE-0C16
```

```
C:\Users\rippleblue2002\git 的目錄
```

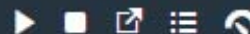
```
2015/09/19 下午 05:15 <DIR> .  
2015/09/19 下午 05:15 <DIR> ..  
2015/09/19 下午 05:15 <DIR> python-git  
0 個檔案 0 位元組  
3 個目錄 92,725,108,736 位元組可用
```

- git log
- git add .
- git commit -m “new file” (-m 版本訊息)
- git push



檔案 編輯 檢視 工具

python-git (執行中 : 一般)



▼ 0830 | python-git

0830 | python-git

▶ .git

▶ launchConfigurations

▶ static

.cignore

.gitignore

1.txt

License.txt

manifest.yml

Procfile

project.json

README.md

README.txt

requirements.txt

server.py

▼ README.md

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Finally, consider defining some sprints and work items in Track & Plan to give interest in your project.

▼ Git

Git Url <https://hub.jazz.net/git/0830/python-git/>

Git Repository [Git Repository](#)

作用中的分支 (master)

 工作目錄變更
3 個檔案已變更。0 個檔案已備妥可確定。

▼ 送出 (0)

無變更

推送 ▼

▼ 送入 (1)

   提取 ▼

 Something files

jerry 於 2015/9/19 下午 5:25:51
確定者 jerry <jerry@mail.ntust.edu.tw>

確定：01b2094fc38e8e621f8ffd4670c63e1c933a90dd

分支：origin/master

更少 ...

▼ 歷程

確定 (01b209)

1 個檔案已變更

▼  2.txt





儲存庫：

0830 | python-git ▼

參照：

master => origin/master ▼



作用中的分支 (master)



同步



工作目錄變更

3 個檔案已變更 · 0 個檔案已備妥可確定。

▼ 送出 (0)

推送 ▼

無變更

▼ 送入 (1)



提取 ▼



Something files

jerry 於 2015/9/19 下午 5:25:51
確定者 jerry <jerry@mail.ntust.edu.tw>

確定： 01b2094fc38e8e621f8ffd4670c63e1c933a90dd

分支： origin/master

更少 ...

確定 (01b209)

1 個檔案已變更

▼ + 2.txt



將分支的內容合併到作用中分支

.gitignore

1.txt

2.txt

License.txt

manifest.yml

Procfile

project.json

README.md

README.txt

requirements.txt

server.py

▼ 0830 | python-git

.git

2015/9/19 下午5:28:01

launchConfigurations

2015/9/19 下午3:46:28

static

2015/9/19 下午3:46:25

.cfignore

2015/9/19 下午3:46:28

1 KB

.gitignore

2015/9/19 下午3:46:26

1 KB

1.txt

2015/9/19 下午5:23:15

0 KB

2.txt

2015/9/19 下午5:27:38

0 KB

License.txt

2015/9/19 下午3:46:25

1 KB

manifest.yml

2015/9/19 下午3:46:25

1 KB

Procfile

2015/9/19 下午3:46:25

1 KB

Branch with bluemix

- `git branch`
- `git branch v1`
- `git checkout v1`
- `git add .`
- `git commit -m "v1 branch"`
- `git push origin v1`
- `git checkout master`
- `git merge new1`
- `git push`

作用中的分支 (v1)

同步

工作目錄變更

3 個檔案已變更。0 個檔案已備妥可確定。

▼ 送出 (0)

推送

無變更

▼ 送入 (1)

提取

v1 branch2

jerry 於 2015/9/19 下午6:23:53
確定者 jerry <jerry@mail.ntust.edu.tw>

確定：9bf5cc90c587eca5891e4ee647c83d6badb08f4a

分支：origin/v1

[更少 ...](#)

▼ 歷程

工作目錄變更

輸入確定訊息

☐ 修正前一個確定

☐ 全選 已選取 0 個檔案

☐ .cignore

☐ .gitignore

☐ project.json

Exercise

- Try to commit to repository with bluemix
- Try to push files to repository with bluemix