SoftLeader

Softleader Technology Corp.

www.softleader.com.tw

Jenkins

01 Jenkins 本機安裝

02 Jenkins 操作教學

03 Jenkins pipline撰寫

Jenkins

Jenkins介紹

Jenkins 是一套的可擴充套件的用於自動化部署的開源 CI/CD 工具。

Jenkins 是用 Java 編寫的，是在 MIT 許可下發布的。它有一組強大的功能，可以將軟體的構建、測試、部署、整合和釋出等相關任務自動化。

這款用於測試的自動化 CI/CD 工具可以在 macOS、Windows 和各種 UNIX 版本（例如 OpenSUSE、Ubuntu、Red Hat 等）系統上使用。

除了通過本地安裝包安裝，它還可以在任何安裝過 Java 執行時環境（Java Runtime Environment，JRE）的機器上單獨安裝或者作為一個 Docker 安裝

Jenkins

安裝教學

以docker 安裝 Jenkins

1. 安裝 Docker

Switch to Linux Containers

https://docs.docker.com/desktop/windows/install/

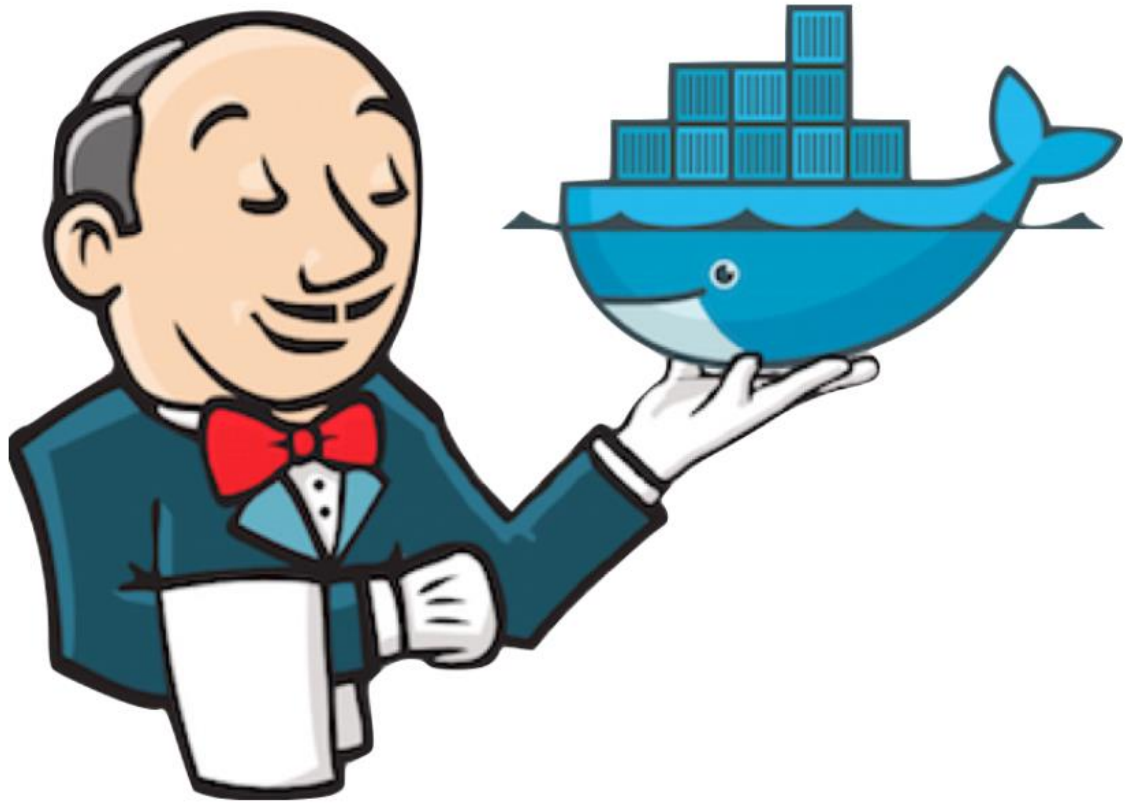
2. 選擇Jenkins image，並下載

docker pull jenkins/jenkins: 2.325-jdk8

3. 啟動Jenkins

- 以docker指令直接啟動

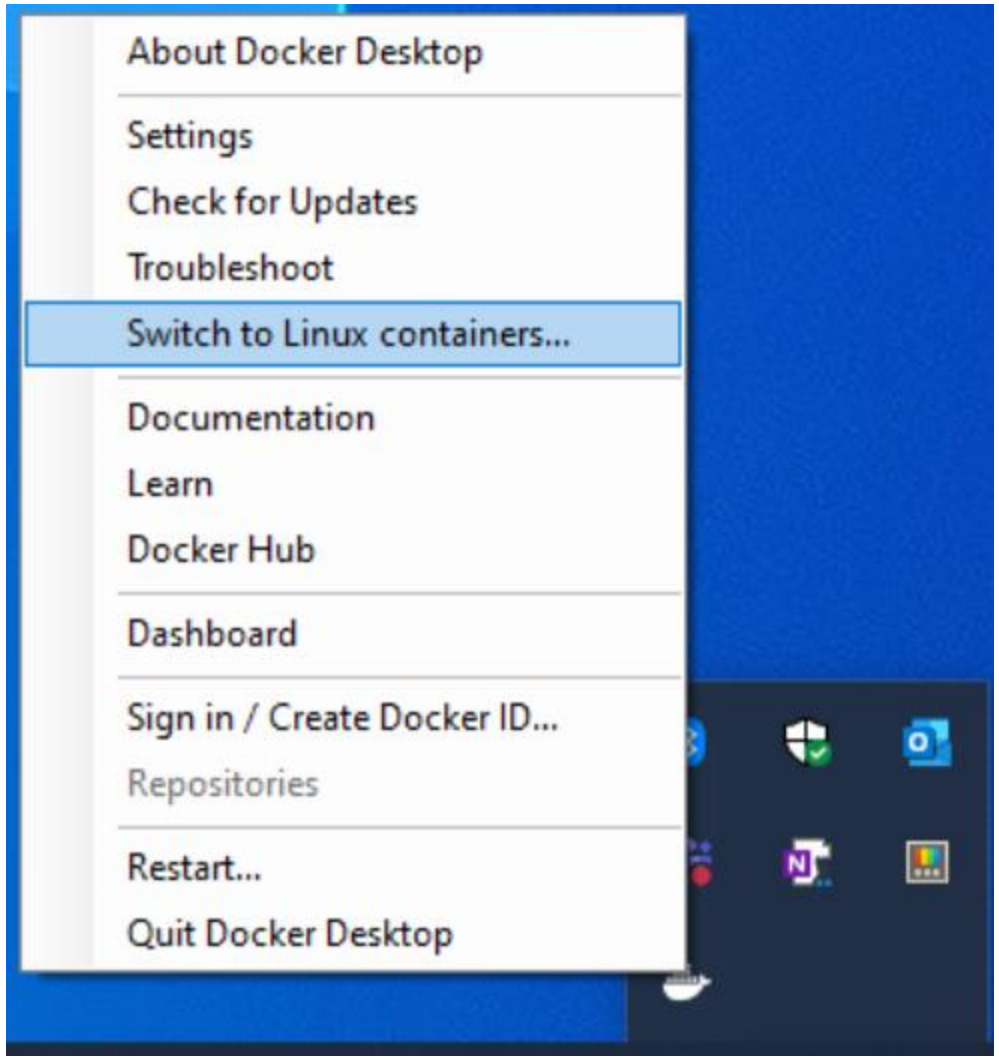
- 以docker-compose 啟動



https://www.jenkins.io/doc/book/installing/

https://hub.docker.com/_/jenkins?tab=tags

切換linux containers



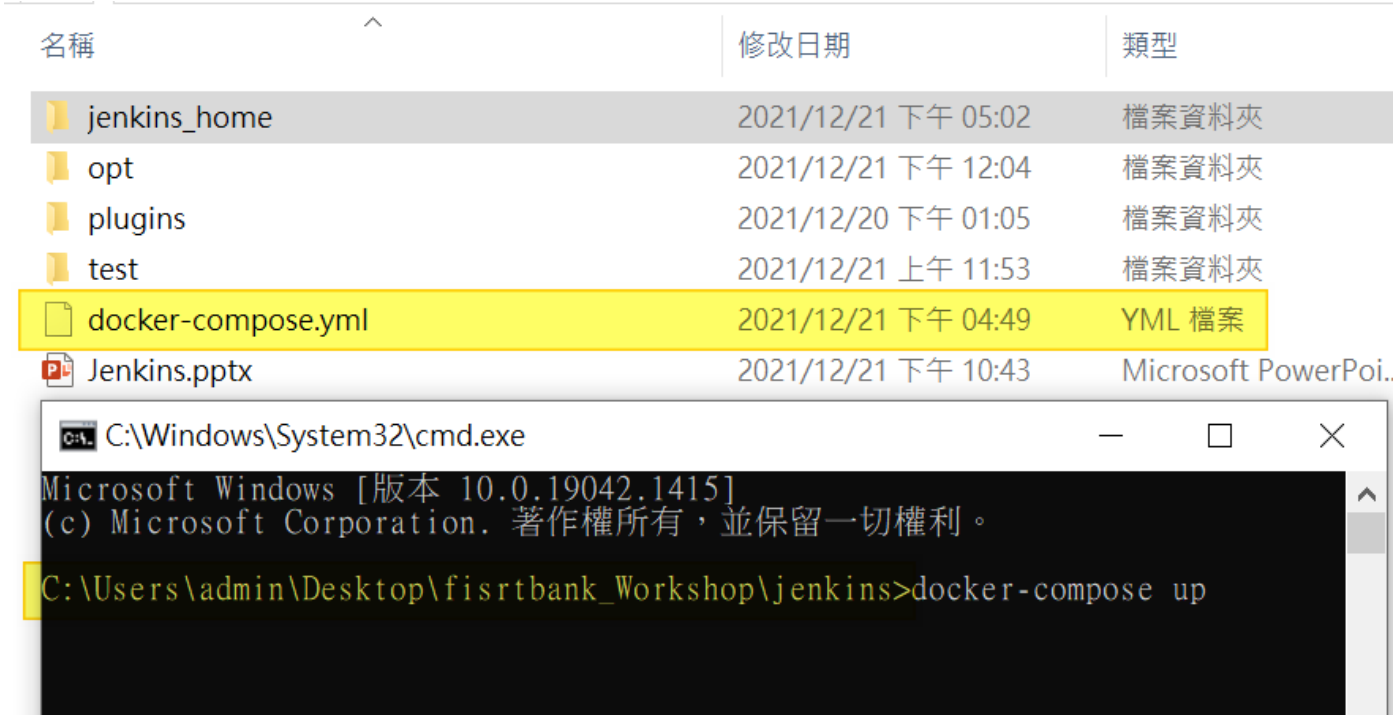
docker-compose.yml

```
version: '3.8'
services:
  jenkins:
    image:  jenkins/jenkins:2.325-jdk8
    restart: always
    ports:
      - 8080:8080
      - 50000:50000
volumes:
     - C:\Users\admin\Desktop\fisrtbank_Workshop\Jenkins\Jenkins_home:/var/jenkins_home
```

在docker-compose.yml 相同路徑中，下指令

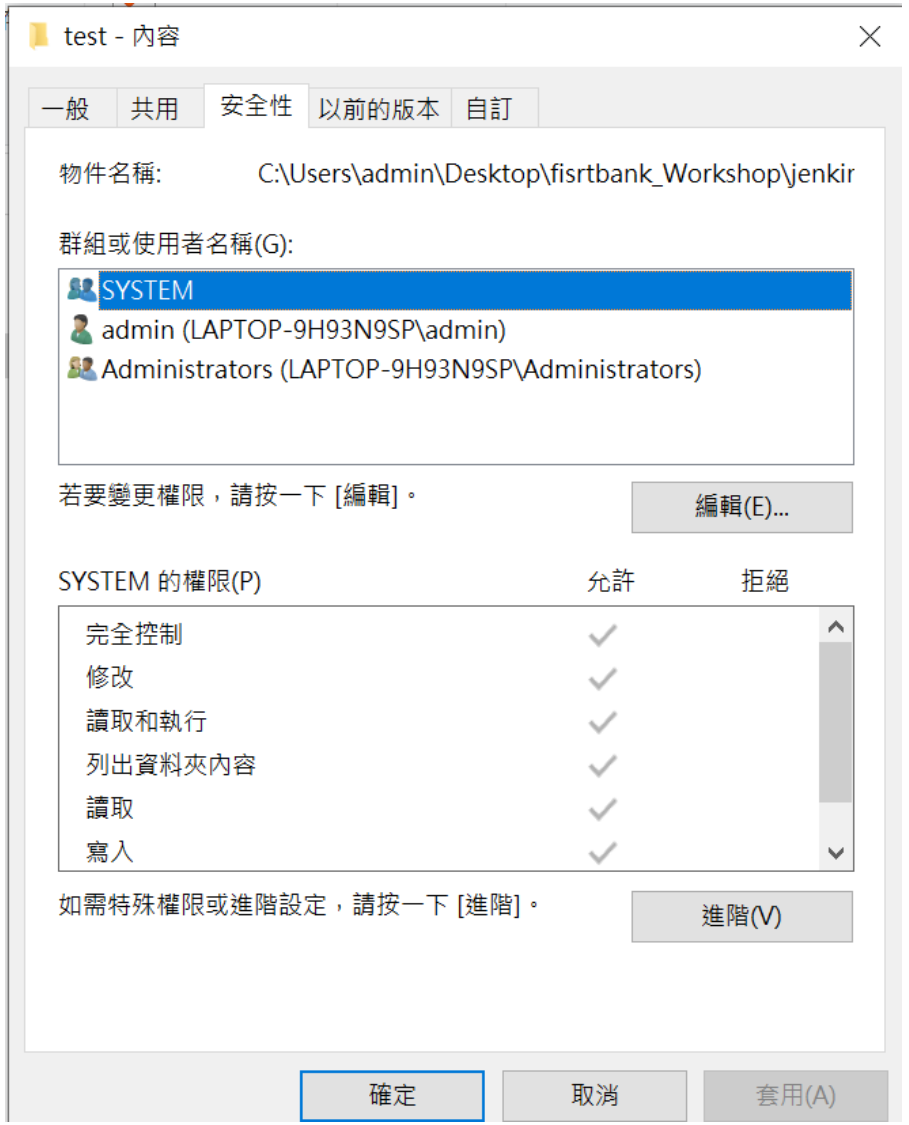
開啟container
docker-compose up –d

移除container
docker-compose down

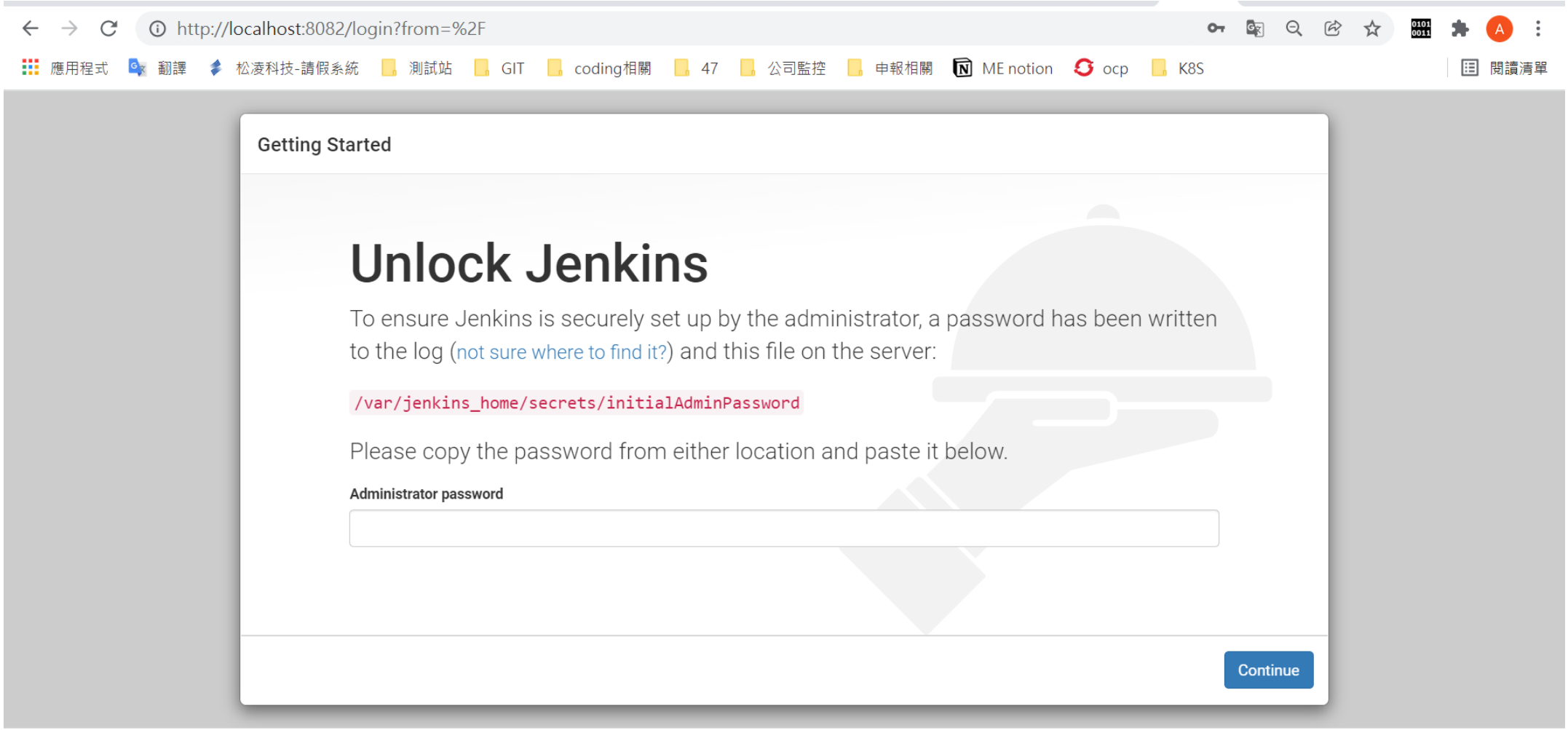


資料夾權限問題

Music Info
Music
62 KB
Modified: July 23, 2019 at 1:34 PM
Add Tags...
General:
More Info:
Name & Extension:
Comments:
Preview:
Sharing & Permissions:
You can read and write
Name
Privilege
michaelcavann...
Read & Write
staff
Read only
everyone
Read only


test - 內容
一般
共用
安全性
以前的版本
自訂
物件名稱:
C:\Users\admin\Desktop\fisrtbank_Workshop\jenkir
群組或使用者名稱(G):
SYSTEM
admin (LAPTOP-9H93N9SP\admin)
Administrators (LAPTOP-9H93N9SP\Administrators)
若要變更權限，請按一下 [編輯]。
編輯(E)...
SYSTEM 的權限(P)
允許
拒絕
完全控制
修改
讀取和執行
列出資料夾內容
讀取
寫入
如需特殊權限或進階設定，請按一下 [進階]。
進階(V)
確定
取消
套用(A)

密碼可在log或者/var/jenkins_home/secrets/initialAdminPassword找到



 / © 2019 SoftLeader Technology Corp.

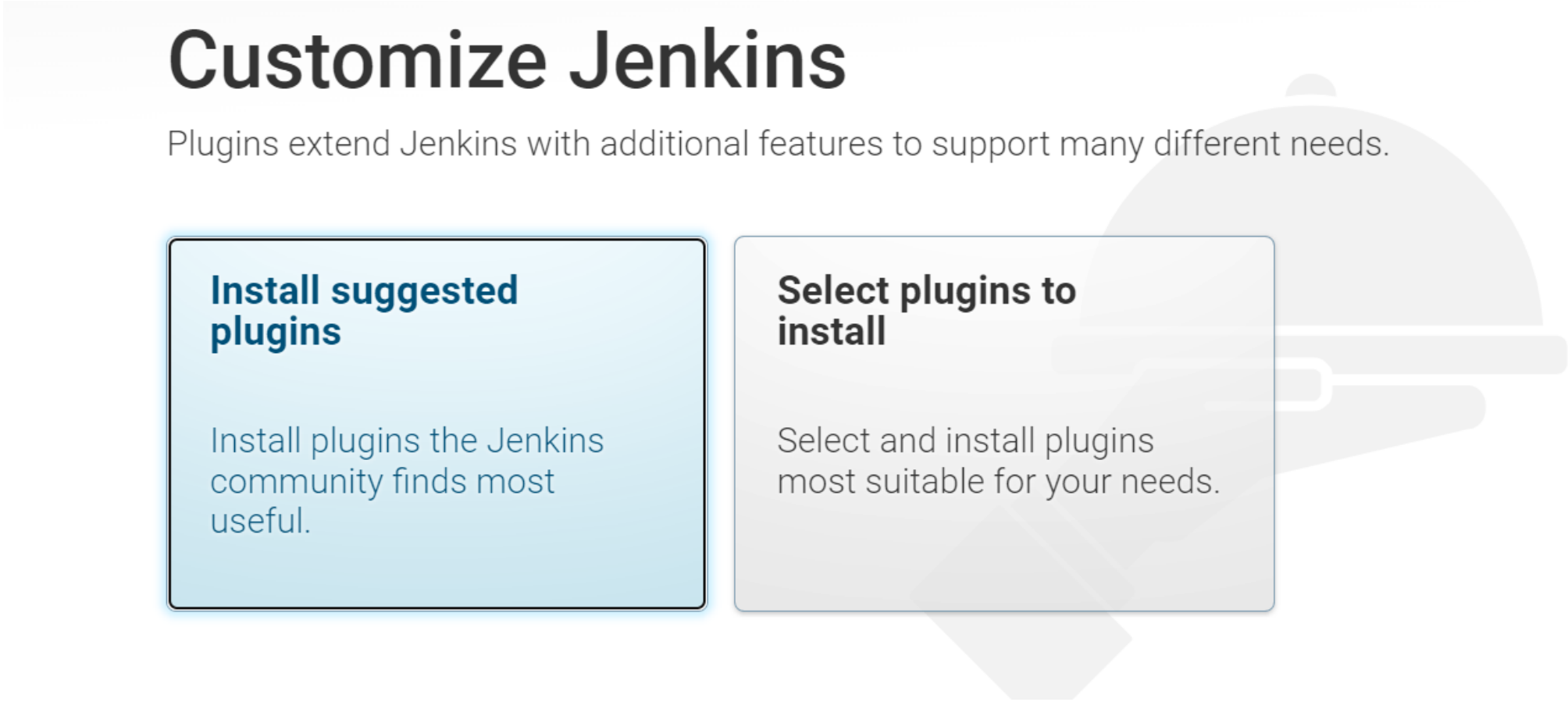
查看containe的log

docker logs –f ${container ID}

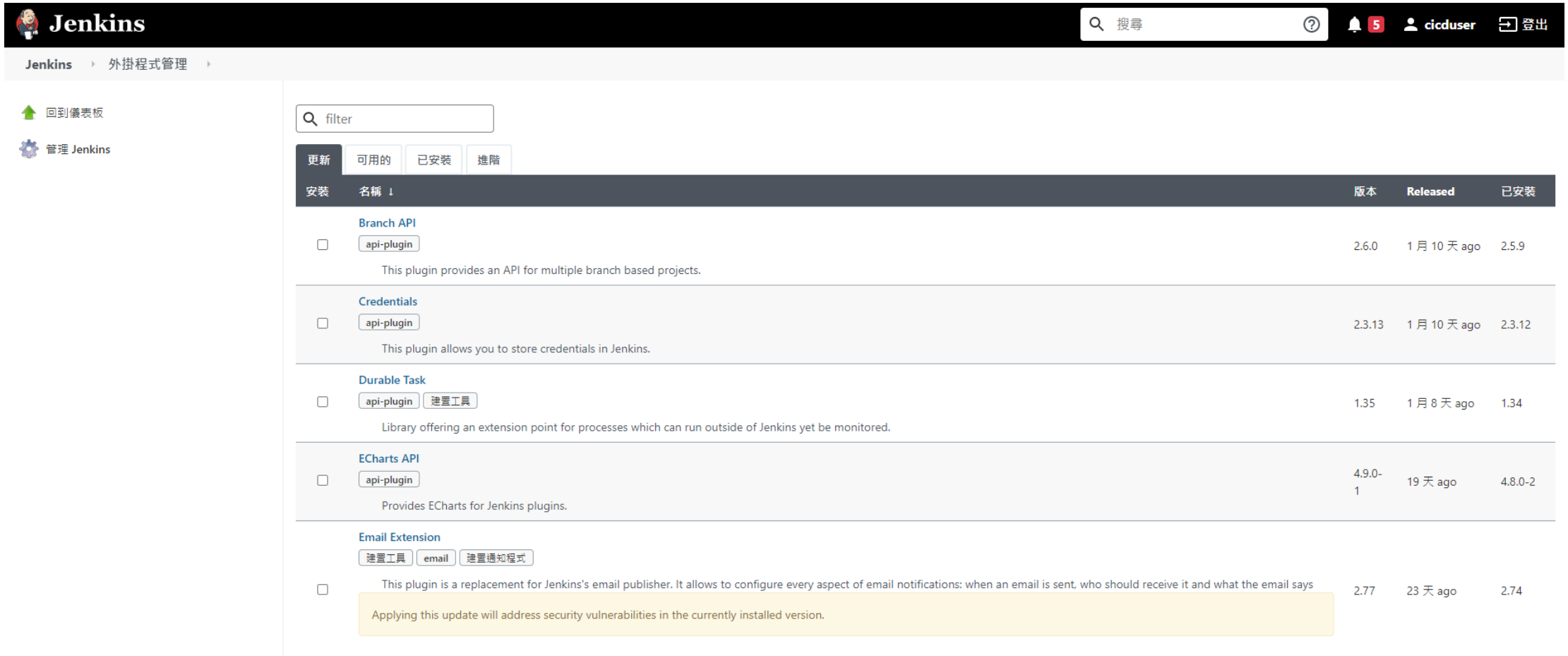
```
C:\Users\admin\Desktop\fisrtbank_Workshop\jenkins>docker ps
CONTAINER ID   IMAGE                          COMMAND                  CREATED          STATUS          PORTS
                  NAMES
8ec225875b61   jenkins/jenkins:2.325-jdk8   "/sbin/tini -- /usr/…"   37 seconds ago   Up 34 seconds   0.0.0.0:8082->8080/tcp, :::8082->8080/tcp, 0.0.0.0:50002->50000/tc
:::50002->50000/tcp   jenkins_jenkins_1

C:\Users\admin\Desktop\fisrtbank_Workshop\jenkins>docker logs -f 8ec225875b61
Running from: /usr/share/jenkins/jenkins.war
webroot: EnvVars.masterEnvVars.get("JENKINS_HOME")
2021-12-21 08:58:13.448+0000 [id=1]     INFO    org.eclipse.jetty.util.log.Log#initialized: Logging initialized @1641ms to org.eclipse.jetty.util.log.JavaUtilLog
2021-12-21 08:58:13.977+0000 [id=1]     INFO    winstone.Logger#logInternal: Beginning extraction from war file
2021-12-21 08:58:14.062+0000 [id=1]     WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2021-12-21 08:58:14.222+0000 [id=1]     INFO    org.eclipse.jetty.server.Server#doStart: jetty-9.4.43.v20210629; built: 2021-06-30T11:07:22.254Z; git: 526006ecfa3af7f1a2
3a288e2bef7ea9dd7e8; jvm 1.8.0_312-b07
2021-12-21 08:58:19.019+0000 [id=1]     INFO    o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServle
2021-12-21 08:58:19.177+0000 [id=1]     INFO    o.e.j.s.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager workerName=node0
2021-12-21 08:58:19.177+0000 [id=1]     INFO    o.e.j.s.s.DefaultSessionIdManager#doStart: No SessionScavenger set, using defaults
2021-12-21 08:58:19.179+0000 [id=1]     INFO    o.e.j.server.session.HouseKeeper#startScavenging: node0 Scavenging every 660000ms
2021-12-21 08:58:21.144+0000 [id=1]     INFO    hudson.WebAppMain#contextInitialized: Jenkins home directory: /var/jenkins_home found at: EnvVars.masterEnvVars.get("JENK
 HOME")
```

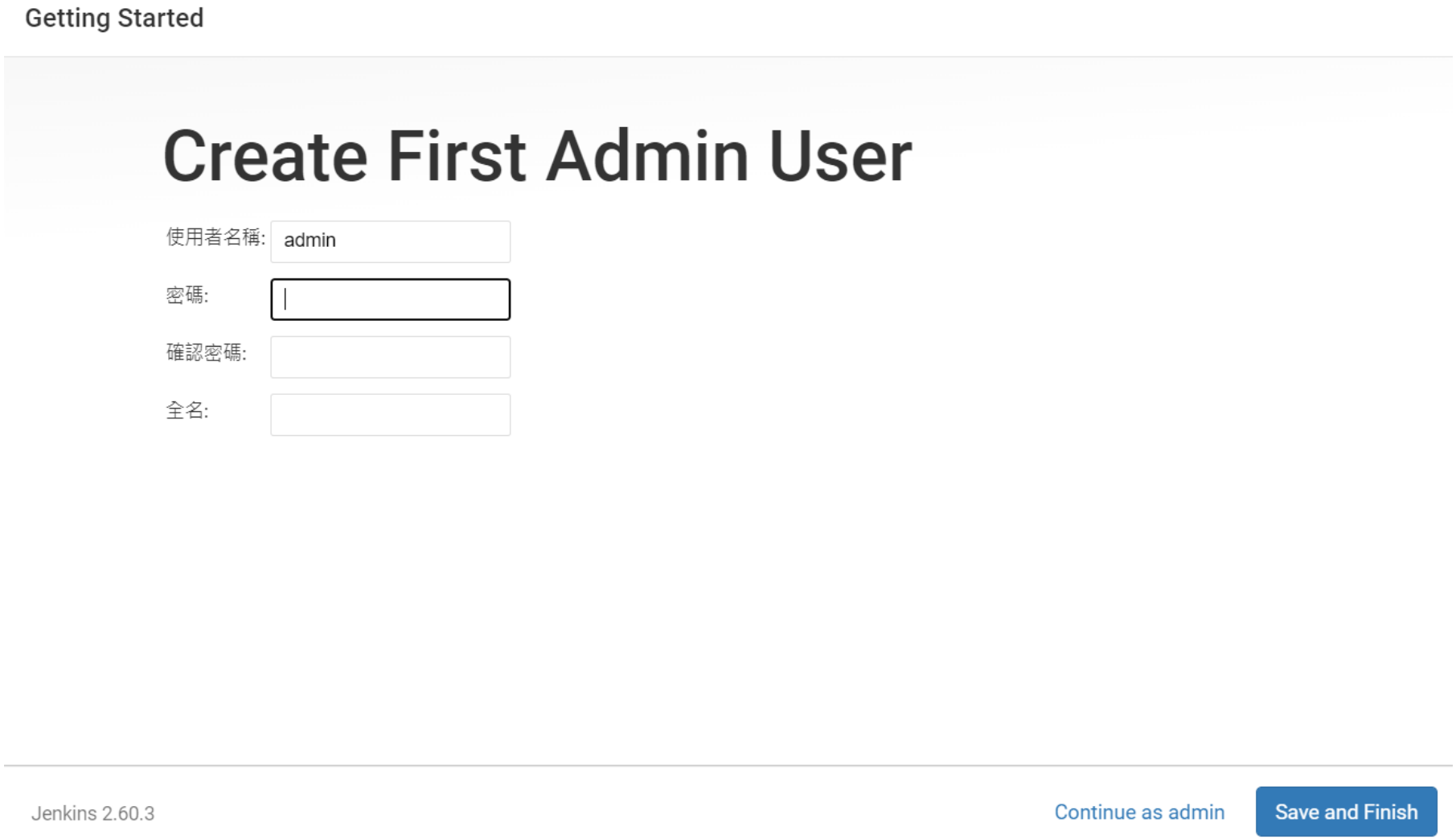
plugin 安裝


Customize Jenkins
Plugins extend Jenkins with additional features to support many different needs.
Install suggested plugins
Install plugins the Jenkins community finds most useful.
Select plugins to install
Select and install plugins most suitable for your needs.

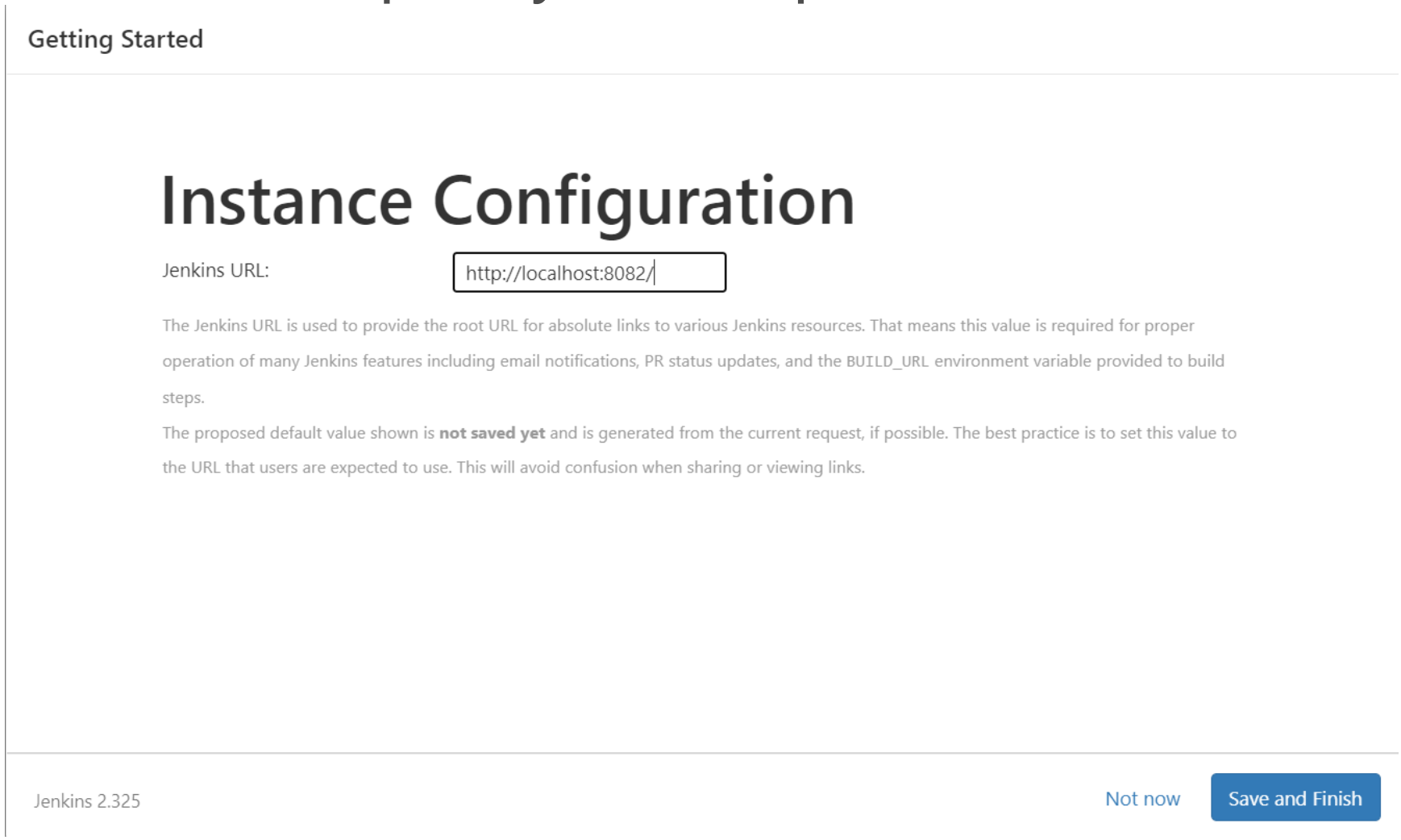
若離線安裝 可以將plugin 放在: /jenkins_home/plugins/內，完成插鍵離線安裝。



設定Admin User



設定連線jenkins的介面的URL
要跟剛剛docker-compose.yml 對外port號相同



安裝成功後，大家可以先玩玩看介面