

# FreeSandal

樹莓派, 樹莓派之學習, 樹莓派之教育

## 【鼎革 · 革鼎】：RASPBIAN STRETCH 《六之 F.1 》

2017-11-08 | 懸鉤子 | 發表迴響

分明 Debian Stretch 上就有

`apt-cache show guacd`

Package: guacd

Source: guacamole-server

Version: 0.9.9-2

Architecture: armhf

Maintainer: Debian Remote Maintainers <pkg-remote-team@lists.alioth.debian.org>

`apt-cache show guacamole`

Package: guacamole

Source: guacamole-client

Version: 0.9.9+dfsg-1

Installed-Size: 6218

Maintainer: Debian Remote Maintainers <pkg-remote-team@lists.alioth.debian.org>

Architecture: all

Provides: guacamole-tomcat

還比 [TUTORIAL] Jetty and Guacamole 教程要新，為何不直接安裝就好了呢？一者所謂酪梨歸屬分際：



# Apache Guacamole (incubating)

## Release Archive

All recent Guacamole releases are listed here, along with several historical releases. Each release below is listed by the version of the overall software bundle and the date on which it was released. Clicking on the version number will take you to the release notes and downloads for that release, including a pre-built `guacamole.war` file and all associated source code.

Please be sure to read the installation instructions in the manual thoroughly. If you do not wish to build things from source, you can also install Guacamole using Docker.

If you are looking for the absolute latest unreleased code (or extremely old code not archived here), please check our git repositories on GitHub.

## Which version should I download?

Unless you already know that you need a very specific version (your custom or third-party extensions use an older version of the Guacamole API, for example), **you should always download the most recent release**. Guacamole development is very active, and recent releases will contain bug fixes and performance improvements that will be absent in older releases.

VERSION	SUMMARY	RELEASE DATE
0.9.13-incubating	CAS single sign-on, fixes for VNC/RDP/SSH/telnet, in-browser playback of screen recordings, automatic connection failover, 256-color console codes.	2017-07-30
0.9.12-incubating	Thumbnails as tab icons, HTTP header authentication, performance improvements, and fixes for printing, file transfer, and terminal emulation.	2017-04-01
0.9.11-incubating	Two-factor authentication, password policies, improvements to Docker and LDAP.	2017-02-02
0.9.10-incubating	Screen sharing, recording, improved file transfer, audio input, Docker support for LDAP.	2016-12-29

## Pre-Apache releases

All releases below are from prior to Guacamole's acceptance into the Incubator. They are not Apache Software Foundation releases, and are licensed under the MIT license.

VERSION	SUMMARY	RELEASE DATE
0.9.9	Dynamic JPEG/WebP, improved LDAP support, central connection history, filterable connection/user lists.	2015-12-18
0.9.8	Multiple auth extensions, file browsing, VNC audio and file transfer, RDP performance flags.	2015-09-09
0.9.7	Simpler installation/configuration, theming support, Docker support, translations, multiple bug fixes.	2015-06-10
0.9.6	PostgreSQL support, database speed improvements, RDP memory fixes, session management.	2015-03-30
0.9.5	Fixes for iOS, regressions from 0.9.4, and printing issues. Scrollbar for SSH and telnet.	2015-02-16
0.9.4	Completely new interface, single-tab layout, WebSockets by default, simultaneous connections.	2015-01-06
0.9.3	Config file for guacd, improved keyboard, HTTP Basic auth, CO control codes, bug fixes.	2014-09-30
0.9.2	Wide character support, automated telnet login, keyboard-interactive auth, bug fixes.	2014-07-21
0.9.1	Performance enhancements, improved UI, better mobile support, telnet, MySQL auth fixes	2014-05-23
0.8.4	MySQL auth fixes	2014-05-23
0.9.0	Adds support for file transfer, RemoteApp, public key auth, and improved error handling.	2014-03-28
0.8.3	LDAP support, connection grouping and balancing, improved performance, SSL support.	2013-08-28

再者樹莓派以 oracle-java8-jdk 為預設：

```
1 pi@raspberrypi:~ $ java -version
2 java version "1.8.0_65"
3 Java(TM) SE Runtime Environment (build 1.8.0_65-b17)
4 Java HotSpot(TM) Client VM (build 25.65-b01, mixed mode)
5 pi@raspberrypi:~ $
6 pi@raspberrypi:~ $ sudo dpkg -l | grep java8-jdk
7 ii oracle-java8-jdk      8u65
8 pi@raspberrypi:~ $
```

又因聽聞 jetty



Eclipse Jetty provides a Web server and javax.servlet container, plus support for HTTP/2, WebSocket, OSGi, JMX, JNDI, JAAS and many other integrations. These components are open source and available for commercial use and distribution.

Eclipse Jetty is used in a wide variety of projects and products, both in development and production. Jetty can be easily embedded in devices, tools, frameworks, application servers, and clusters. See the Jetty Powered page for more uses of Jetty.

The current recommended version for use is Jetty 9 which can be obtained on the Jetty Downloads page. Also available are the latest maintenance releases of Jetty 8 and Jetty 7,

The Jetty project has been hosted at the Eclipse Foundation since 2009. Prior releases of Jetty have existed in part or completely under the Jetty project at the The Codehaus and Sourceforge before that. See the About page for more information about the history of Jetty.

## ※ 註 Jetty (web server)

**Eclipse Jetty** is a Java HTTP (Web) server and Java Servlet container. While Web Servers are usually associated with serving documents to people, Jetty is now often used for machine to

machine communications, usually within larger software frameworks. Jetty is developed as a free and open source project as part of the Eclipse Foundation. The web server is used in products such as Apache ActiveMQ,<sup>[2]</sup> Alfresco,<sup>[3]</sup> Apache Geronimo,<sup>[4]</sup> Apache Maven, Apache Spark, Google App Engine,<sup>[5]</sup> Eclipse,<sup>[6]</sup> FUSE,<sup>[7]</sup> iDempiere,<sup>[8]</sup> Twitter's Streaming API<sup>[9]</sup> and Zimbra.<sup>[10]</sup> Jetty is also the server in open source projects such as Lift, Eucalyptus, Red5, Hadoop and I2P.<sup>[11]</sup> Jetty supports the latest Java Servlet API (with JSP support) as well as protocols HTTP/2 and WebSocket.

較湯姆貓

## Apache Tomcat®

### Apache Tomcat

The Apache Tomcat® software is an open source implementation of the Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket technologies. The Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket specifications are developed under the Java Community Process.

The Apache Tomcat software is developed in an open and participatory environment and released under the Apache License version 2. The Apache Tomcat project is intended to be a collaboration of the best-of-breed developers from around the world. We invite you to participate in this open development project. To learn more about getting involved, [click here](#).

Apache Tomcat software powers numerous large-scale, mission-critical web applications across a diverse range of industries and organizations. Some of these users and their stories are listed on the [PoweredBy wiki page](#).

Apache Tomcat, Tomcat, Apache, the Apache feather, and the Apache Tomcat project logo are trademarks of the Apache Software Foundation.

※ 註 Apache Tomcat

**Tomcat**是由Apache軟體基金會下屬的Jakarta專案開發的一個Servlet容器，按照Sun Microsystems提供的技術規範，實現了對Servlet和JavaServer Page (JSP) 的支援，並提供了作為Web伺服器的一些特有功能，如Tomcat管理和控制平台、安全域管理和Tomcat閥等。由於Tomcat本身也內含了一個HTTP伺服器，它也可以被視作一個單獨的Web伺服器。但是，不能將Tomcat和Apache HTTP伺服器混淆，Apache HTTP伺服器是一個用C語言實現的HTTPWeb伺服器；這兩個HTTP web server不是捆綁在一起的。Apache Tomcat包含了一個配置管理工具，也可以通過編輯XML格式的設定檔來進行配置。

需耗資源少，故而讀

## Chapter 2. Installing Guacamole natively

### Table of Contents

**Building guacamole-server**

**Required dependencies**

**Optional dependencies**

**Obtaining the source code**

**The build process**

**Installation**

**guacamole-client**

**Deploying Guacamole**

**What about WebSocket?**

Guacamole is separated into two pieces: `guacamole-server`, which provides the `guacd` proxy and related libraries, and `guacamole-client`, which provides the client to be served by your servlet container, usually Tomcat.

`guacamole-client` is available in binary form, but `guacamole-server` must be built from source. Don't be discouraged: building the components of Guacamole from source is *not* as difficult as it sounds, and the build process is automated. You just need to be sure you have the necessary tools installed ahead of time. With the necessary dependencies in place, building Guacamole

only takes a few minutes.

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