



SSH命令用法速查手册

本文汇集了常用的SSH命令用法，以及SSH-Keygen, SSH agents等等我经常用到的相关操作。

SSH-Keygen

目前大多数平台都推荐使用ed25519算法来生产 keys 。

如果因为兼容的原因而更喜欢 RSA 算法的话，请使用下面的命令：

这个 `-C` 参数仅是在公钥上添加一个注释，所以，就像后文介绍的[Authorized_Keys](#)那样，可以简单的注明这个 公钥属于某个email。

注意：生成 SSH 秘钥时，使用密码串来保护你的私钥。

SSH with Keys

使用私钥登录服务器：

除了手动使用 `-i` 指定私钥外，我们还可以使用 [SSH-Agent](#) 简化操作。

Authorized_Keys

对于任何的远程主机或服务，比如GitHub，如果你想使用你的SSH秘钥登录，相对对应

是公钥也是必须的。

在服务器上，你可以把自己的公钥写入 `~/.ssh/authorized_keys` 文件。

用下面的命令实现：

- `cat ~/.ssh/id_rsa.pub | ssh USER@HOST "mkdir -p ~/.ssh && cat >> ~/.ssh/authorized_keys"` – <https://askubuntu.com/a/262074>
- `ssh-copy-id user@host` – <https://askubuntu.com/a/46427>

对一些像GitHub, AWS等这样的服务，我们需要上传公钥，通过提供的界面，或者直接使用命令行工具。

SCP

上传文件至远程服务器：

将整个目录上传至远程服务器：

从远程服务器下载文件：

从远程服务器下载目录：

SSH-Agent

如果已经运行着 OpenSSH agent (大多数Linux平台和macOS上都是标配的)，只需要：

在Windows运行 OpenSSH agent，你需要[执行这些命令](#)：

```
# By default the ssh-agent service is disabled. Allow it to be manually star
# Make sure you're running as an Administrator.
Get-Service ssh-agent | Set-Service -StartupType Automatic

# Start the service
```

A terminal window with a title bar that says "Start-Service ssh-agent". The window has a scroll bar on the right side, which is currently at the beginning.

Note: On Windows/Linux adding a key to your ssh-agent once, even with a password, will make sure that the key gets associated with your 'login' . Meaning: When you restart your PC and log in again, you' ll have your identity automatically available again.

To get the same behavior on macOS, you' ll need to follow these instructions [on StackExchange](#).

SSH Config

Create a file `~/.ssh/config` to manage your SSH hosts. Example:

Note:

The Host directive can either

- be a pattern (matching multiple follow-up Hosts)
- refer to a made-up hostname (dev-facebook)
- be a real hostname.

If it' s a made-up hostname, you' ll need to specify an additional Hostname directive, otherwise, you can leave it out. And to add to the overall confusion, a Host line can actually contain multiple patterns.

With the config file above, you could do a:

Which would effectively do a `ssh -i ~/.ssh/johnsnow.pem ec2-user@192.168.178.1` for you.

For a full overview of all available options, look at [this article](#).

Git & Windows OpenSSH

To make Git use Windows' s OpenSSH (and not the one it bundles), execute the following command:

Exit Dead SSH Sessions

To kill an unresponsive SSH session, hit, subsequently.

Multiple GitHub Keypairs

Trying to clone different private GitHub repositories, which have different SSH keypairs associated with them, doesn' t work out of the box.

Add this to your `.ssh/config` (this example assumes you have two GitHub keypairs, one for your work account and one for your personal account)

Then instead of cloning from `github.com`.

Clone from either `github-work.com` or `github-personal.com`.

SSH Agent Forwarding

Ever wanted to use your local SSH keys on a remote server, without copying your keys to that server? For example to `git clone` a private repository via SSH on a remote server?

Agent forwarding to the rescue. Edit your local `.ssh/config` file like so:

Then simply `ssh` to your server and execute an `_ssh-add -L`. The server' s SSH agent should have all local SSH identities available and you can start cloning away!

SSH Agent Forwarding: Windows to WSL

If you want to use the Windows OpenSSH agent with all its identities from WSL, do the following:

1. Install socat, e.g. on your WSL Distribution: e.g. apt install socat for Ubuntu/Debian.
2. Download a build of [npiperelay](#) and put it somewhere on your (Windows) PATH.
3. Put the following into your WSL ~/.bash_profile or ~/.bashrc.

Enjoy!

Major thanks to Stuart Leeks, who I blatantly stole this code from – he did all the work @ <https://stuartleeks.com/posts/wsl-ssh-key-forward-to-windows/>.

Check out his [WSL Book](#) for more such tricks!

SSH Tunnels

Want to connect to a server that is hidden from the outside world, but accessible from a box you have SSH access to? Like an Amazon RDS database, which is only reachable from inside an AWS network?

Use SSH forwarding

The following command establishes an SSH tunnel between my local machine (@port 3307) and an RDS database (@port 3306), via an EC2 jump host (18.11.11.11).

You could now, for example, use the mysql client to connect to localhost:3307, which will be transparently tunneled to RDS for you.

Note: A lot of tools/IDEs like [IntelliJ IDEA](#), support opening up SSH tunnels by just clicking a checkbox in the UI.

Password Managers & SSH Agents

Password Managers like [1Password](#) or [Keepass](#) can not only store your SSH keys, but they also come with their own `ssh-agent`, replacing your system's `ssh-agent`.

This means, whenever you unlock your password manager on any machine that you have it installed on, you'll have all your SSH identities instantly available.

Super useful!

参考: <https://www.marcobehler.com/guides/ssh-cheat-sheet>

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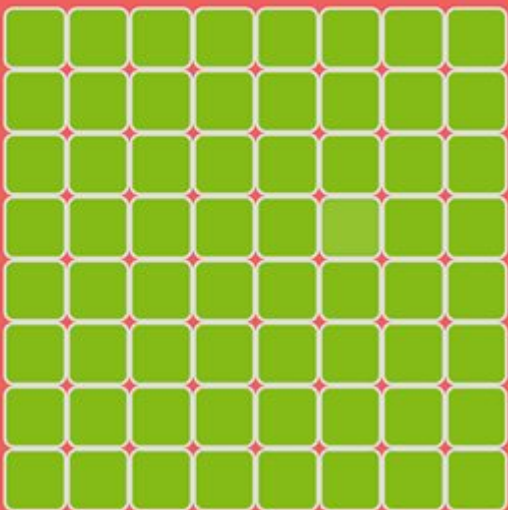
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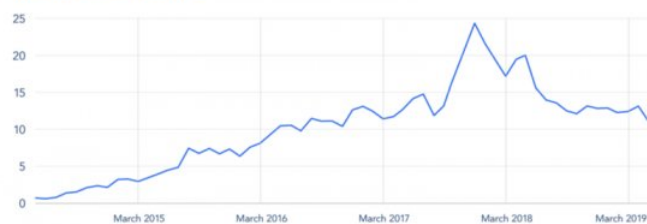
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Searches per million on Indeed



*Methodology: Job site Indeed analyzed the percentage change in the share of job searches per million that included docker from March 2014 to March 2019.

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