

Continued Setup (Installed Repos)

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ACME CORP

Repository Overview 🙄

A Linux repository is a storage location from which your system retrieves and installs OS updates and applications. Each repository is a collection of software hosted on a remote server and intended to be used for installing and updating software packages on Linux systems

Objectives 🎯

This PDF lists all the installed repositories.


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Updating CentOS ✓

It is always a good idea to check for updates before installing repos.

 `sudo yum update`

- This command will update installed software

```
[dave@localhost ~]$ sudo yum update
[sudo] password for dave:
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: mirror.umd.edu
 * extras: mirror.centos.iad1.serverforge.org
 * updates: mirrors.greenmountainaccess.net
base                               | 3.6 kB  00:00:00
extras                             | 2.9 kB  00:00:00
updates                           | 2.9 kB  00:00:00
No packages marked for update
[dave@localhost ~]$ _
```

Updating Ubuntu ✓

It is always a good idea to check for updates before installing repos.

❏ `sudo apt-get update`

- This command will update installed software

```
dave@acme:~$ sudo apt-get update
E: Invalid operation update
dave@acme:~$ sudo apt-get update
Hit:1 http://us.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1,750 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [325 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [15.0 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [947 kB]
Get:9 http://us.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [135 kB]
Get:10 http://us.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [528 B]
Get:11 http://us.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [920 kB]
Get:12 http://us.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [206 kB]
Get:13 http://us.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [20.6 kB]
Get:14 http://us.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [24.4 kB]
Get:15 http://us.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7,336 B]
Get:16 http://us.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [592 B]
Get:17 http://us.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [42.2 kB]
Get:18 http://us.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [10.1 kB]
Get:19 http://us.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [864 B]
Get:20 http://us.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [22.7 kB]
Get:21 http://us.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [15.5 kB]
Get:22 http://us.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [804 B]
Get:23 http://us.archive.ubuntu.com/ubuntu focal-security/main amd64 Packages [1,422 kB]
Get:24 http://us.archive.ubuntu.com/ubuntu focal-security/main Translation-en [246 kB]
Get:25 http://us.archive.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [10.1 kB]
Get:26 http://us.archive.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [886 kB]
Get:27 http://us.archive.ubuntu.com/ubuntu focal-security/restricted Translation-en [126 kB]
Get:28 http://us.archive.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [532 B]
Get:29 http://us.archive.ubuntu.com/ubuntu focal-security/universe amd64 Packages [700 kB]
Get:30 http://us.archive.ubuntu.com/ubuntu focal-security/universe Translation-en [124 kB]
Get:31 http://us.archive.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [14.4 kB]
Fetched 8,309 kB in 2s (3,364 kB/s)
Reading package lists... Done
dave@acme:~$
```

CentOS Repo Installations ✓

Tmux

tmux is an open-source terminal multiplexer for Unix-like operating systems. It allows multiple terminal sessions to be accessed simultaneously in a single window. It is useful for running more than one command-line program at the same time. It can also be used to detach processes from their controlling terminals, allowing remote sessions to remain active without being visible.

emacs

Emacs is a text editor designed for **POSIX** operating systems and available on Linux, BSD, macOS, Windows, and more. Users love Emacs because it features efficient commands for common but complex actions and for the plugins and configuration hacks that have developed around it for nearly 40 years.

Fail2Ban

Fail2ban scans log files (e.g. /var/log/apache/error_log) and bans IPs that show the malicious signs -- too many password failures, seeking for exploits, etc. Generally Fail2Ban is then used to update firewall rules to reject the IP addresses for a specified amount of time, although any arbitrary other action (e.g. sending an email) could also be configured. Out of the box Fail2Ban comes with filters for various services (apache, courier, ssh, etc).

Fail2Ban is able to reduce the rate of incorrect authentications attempts however it cannot eliminate the risk that weak authentication presents. Configure services to use only two factor or public/private authentication mechanisms if you really want to protect services.

lolcat

A lolcat (pronounced /'lɒlkæt/ LOL-kat), or LOLcat, is **an image macro of one or more cats**. The image's text is often idiosyncratic and intentionally grammatically incorrect, and is known as lolspeak.

snap

A snap is **a bundle of an app and its dependencies that works without modification across many different Linux distributions**. Snaps are discoverable and installable from the Snap Store, an app store with an audience of millions. Snapcraft is a powerful and easy to use command line tool for building snaps.

Ubuntu Repo Installations✓

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ruby

Ruby is one of the most popular programming languages today. It has an elegant syntax and focuses on simplicity and productivity. Ruby is the language behind the powerful Ruby on Rails framework

Citations

Repository Overview

<https://www.networkworld.com/article/3305810/how-to-list-repositories-on-linux.html>

Tmux Description

<https://en.wikipedia.org/wiki/Tmux>

Emacs Description

<https://opensource.com/resources/what-emacs>

Fail2Ban Description

https://www.fail2ban.org/wiki/index.php/Main_Page

lolcat Description

<https://en.wikipedia.org/wiki/Lolcat>

snap Description

<https://ubuntu.com/tutorials/create-your-first-snap#1-overview>

Ruby Description

<https://linuxize.com/post/how-to-install-ruby-on-ubuntu-20-04/>

PDF Template

slite.com

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