Install Opencv in CentOS

Roopendra August 4, 2015 Linux 3 Comments

Install opencv in CentOS

Opencv can be install in CentOS in two ways:

1) Install from available yum repository.
But till the time of writing this post opencv-2.0.0 repository are available. If you need latest version of opencv then go for 2. option.
2) Opencv installation from source.

1) Install opencv from yum repo

Before installation of opencv-python from yum repository we have to install require library numpy.

```
$ sudo yum install python-devel python-nose
python-setuptools gcc gcc-gfortran gcc-c++
blas-devel lapack-devel atlas-devel
$ sudo easy_install pip
$ sudo pip install numpy==1.6.1
```

If you haven't installed opencv rpm then you can download from here and install it first . After installation of rpm now opencv will be available for installation.

```
$ yum install opencv
```

2) Installing Opencv from Source:

To install opencv from we need to install require and optional dependencies.

- **CMake** : For configure the opencv installation.
- **Python-devel** and **Numpy** : For Creating python extension.
- **GCC**: For compilation.

```
$ yum install cmake
$ yum install python-devel numpy
$ yum install gcc gcc-c++
```

Install GTK To support GUI features, Camera support (libdc1394, libv4l), Media Support (ffmpeg, gstreamer) etc.

```
$ yum install gtk2-devel
$ yum install libdc1394-devel
$ yum install libv4l-devel
$ yum install ffmpeg-devel
$ yum install gstreamer-plugins-base-devel
```

Optional Dependencies:

Install below pakcages if you need latest libraries of **PNG, JPEG, JPEG2000, TIFF, WebP**.

Popular Posts

How to Book Freedom 251 Smartphone Online
Run Jenkins Build From Command Line
Install Opencv in CentOS
Add New Node in Elasticsearch Cluster
How to create empty file in ansible playbook
Installing WAMP Server in Windows 7 & 8
Index mysql table into elasticsearch
Writing custom module in ansible
Ansible Playbook validations
Variable of variable in ansible playbook

Recent Posts

How to install Curl on Windows 10
How to Install Maven on Linux
How DevOps Tools Work Together?
Continuous Integration vs Continuous Delivery vs Continuous Deployment

Install Elasticsearch 5.0 on RHEL / CentOS

Tags

ab Ansible ansible-1.6 ansible-module ansible-playbook apache-bench array array_merge_recursive benchmarking build-tools centos CI CI/CD curl-proxy DevOps Elastic Elasticsearch elasticsearch-jdbc-river Elasticsearch-Query-DSL ELK fuelphp Html java jenkins linux load testing Logstash mysql PHP php-curl php-oops php5.6 proxy python Query DSL rpm shell shell script smartphone testing url-validation validations wamp webserver windows

Archives

March 2017
February 2017
January 2017
November 2016
October 2016
September 2016
April 2016
February 2016
January 2016
October 2015
September 2015
August 2015
July 2015


```
$ yum install libpng-devel libjpeg-turbo-devel
jasper-devel openexr-devel libtiff-devel
libwebp-devel
```

Now we have finish the first step of opencv installation. In next step download the opencv source from git repository.

```
$ yum install git
$ mkdir opencv-build
$ cd opencv-build
$ git clone
https://github.com/Itseez/opencv.git
$ cd opencv
$ git checkout tags/2.4.8.2
```

Create a new directory build to compile opencv from source.

```
$ mkdir build
$ cd build
$ cmake -D CMAKE_BUILD_TYPE=RELEASE -D
CMAKE_INSTALL_PREFIX=/usr/local ..
$ make
$ sudo make install
```

Above installation will install package in **/usr/local/lib** . To use this we need to copy site-packages from **/usr/local/lib** to **/usr/lib.**
Move opencv module from in defult python path:

```
$ cp /usr/local/lib/python2.7/site-
packages/cv2.so /usr/lib/python2.7/site-
packages
```

Verify Installation:

```
$ python
>>> import cv2
>>> print cv2.__version__
```