

Ubuntu 20.04? OpenSSL 1.1.1????? ??????? 3.1.1??????????

?????????? 2023?6??????????

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2023/09/11?????????? OpenSSL 1.1.1?

2023?6??????????? 3.1.1????????????

<https://www.openssl.org/blog/blog/2023/06/15/1.1.1-EOL-Reminder/>

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- OS: Ubuntu 20.04

```
openssl version -a
```

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OpenSSL 1.1.1f 31 Mar 2020
built on: Wed May 24 17:14:51 2023 UTC
platform: debian-amd64
options: bn(64,64) rc4(16x,int) des(int) blowfish(ptr)
compiler: gcc -fPIC -pthread -m64 -Wa,--noexecstack -Wall -Wa,--noexecstack -g -O2 -fdebug-prefix-
map=/build/openssl-mSG92N/openssl-1.1.1f=. -fstack-protector-strong -Wformat -Werror=format-security -
DOPENSSL_TLS_SECURITY_LEVEL=2 -DOPENSSL_USE_NODELETE -DL_ENDIAN -DOPENSSL_PIC -
DOPENSSL_CPUID_OBJ -DOPENSSL_IA32_SSE2 -DOPENSSL_BN_ASM_MONT -DOPENSSL_BN_ASM_MONT5 -
DOPENSSL_BN_ASM_GF2m -DSHA1_ASM -DSHA256_ASM -DSHA512_ASM -DKECCAK1600_ASM -DRC4_ASM -
DMD5_ASM -DAESNI_ASM -DVPAES_ASM -DGHASH_ASM -DECP_NISTZ256_ASM -DX25519_ASM -DPOLY1305_ASM
-DNDEBUG -Wdate-time -D_FORTIFY_SOURCE=2
OPENSSLDIR: "/usr/lib/ssl"
ENGINESDIR: "/usr/lib/x86_64-linux-gnu/engines-1.1"
Seeding source: os-specific
```

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<https://nextgentips.com/2022/03/23/how-to-install-openssl-3-on-ubuntu-20-04/>

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- 1. ??????????
- 2. ?????????????????
- 3. github????????????????????
- 4. ?????????????????
- 5. ?????????????????????
- 6. ??????????????
- 7. ??????????????

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- Web????????????
- ???????????

????AWS Lightsail????????????????????

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sudo aptitude install build-essential checkinstall zlib1g-dev git
```

aptitude?????????apt??????

root??

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sudo su -
```

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- ?????????

```
cd /hoge && pwd
```

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- git clone

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git clone https://github.com/openssl/openssl -b openssl-3.1.1
```

- ???????

```
cd openssl
```

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- ????

```
./config --prefix=/usr/local/ssl --openssldir=/usr/local/ssl shared zlib
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- make

```
make
```

```
make????????????????????????????
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- ????

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make test
```

```
make ????????????
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- ?????

```
make install
```

```
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- ???????

```
cat <<- __EOF__ | tee -a /etc/ld.so.conf.d/openssl-3.1.1.conf
/usr/local/ssl/lib64
__EOF__
```

- ???

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ldconfig -v
```

- ?????????

```
mv /usr/bin/c_rehash /path/to/backup/c_rehash.$(date +%Y%m%d)
```

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```
mv /usr/bin/openssl /path/to/backup/openssl.$(date +%Y%m%d)
```

```
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- ????

```
cat <<- __EOF__ | tee -a /etc/environment
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/usr/local/ssl/bin"
```

__EOF__

- ???????

source /etc/environment

- ????

echo \$PATH

PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/usr/local/ssl/bin"

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openssl version -a

OpenSSL 3.1.1 30 May 2023 (Library: OpenSSL 3.1.1 30 May 2023)
built on: Tue Jun 20 01:47:24 2023 UTC
platform: linux-x86_64
options: bn(64,64)
compiler: gcc -fPIC -pthread -m64 -Wa,--noexecstack -Wall -O3 -DOPENSSL_USE_NODELETE -DL_ENDIAN -
DOPENSSL_PIC -DOPENSSL_BUILDING_OPENSSL -DZLIB -DDEBUG
OPENSSLDIR: "/usr/local/ssl"
ENGINESDIR: "/usr/local/ssl/lib64/engines-3"
MODULESDIR: "/usr/local/ssl/lib64/openssl-modules"
Seeding source: os-specific
CPUINFO: OPENSSL_ia32cap=0x7ffaf3ffffebffff:0x27ab

???Ubuntu20.04??OpenSSL3.1.1????????????????

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- apt ???????

sudo apt-mark hold openssl

- aptitude ???????

```
sudo aptitude hold openssl
```

Revision #5

Created 2 April 2024 10:02:33 by manualmaton

Updated 3 July 2024 10:47:04 by manualmaton