



ShadowSocks 是一款科学上网工具，相对 OpenVPN 更加不容易被解密。

shadowsocks-libev-3.2.0.tar.gz	https://www.openldap.org/project/
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安装 * 依赖较多，请依次安装

```
# 安装 依赖
```

```
yum install c-ares-devel.x86_64 c-ares.x86_64
```

```
yum install libtool asciidoc libffi-devel
```

```
# 安装 openssl
```

```
tar zxf openssl-1.1.1.tar.gz
```

```
cd openssl-1.1.1
```

```
./config -fPIC --prefix=/usr/local/ssl enable-shared
```

```
make
```

```
make install
```

```
-- 加载
```

```
echo /usr/local/ssl/lib >>/etc/ld.so.conf
```

```
ldconfig
```

```
# 安装 zlib : 需增加环境变量 CFLAGS="-O3 -fPIC"
```

```
CFLAGS="-O3 -fPIC"
```

```
tar zxf zlib-1.2.11.tar.gz
```

```
cd zlib-1.2.11
```

```
./configure --static --shared
```

```
make
```

```
make install
```

```
# 安装 pcre
```

```
tar zxf pcre-8.42.tar.gz
```

```
cd pcre-8.42
```

```
./configure --enable-utf8 --enable-shared --enable-static
```

```
make
```

```
make install
```

```
# 安装 autoconf

tar zxf autoconf-2.69.tar.gz
cd autoconf-2.69
./configure --prefix=/usr
make
make install

# 安装 automake

tar zxf automake-1.16.tar.gz
cd automake-1.16
./configure --prefix=/usr
make
make install

# 安装 Python

tar zxf Python-3.7.0.tgz
cd Python-3.7.0
./configure --prefix=/usr --enable-optimizations --with-openssl=/usr/local/ssl
make
make install

cd /usr/bin
ln -s python3 python

# 安装 mbedtls

tar zxf mbedtls-2.13.0-apache.tgz
cd mbedtls-2.13.0
cmake -DUSE_SHARED_MBEDTLS_LIBRARY=On .
make
make install

# 安装 libsodium

tar zxf libsodium-1.0.16.tar.gz
cd libsodium-1.0.16
./configure --enable-shared --enable-static
make
make install

# 安装 libev

tar zxf libev-4.24.tar.gz
cd libev-4.24
./configure --enable-shared --enable-static
make
make install
```

```
# 安装 xmlto
tar jxf xmlto-0.0.28.tar.bz2
cd xmlto-0.0.28
./configure --prefix=/usr
make
make install

# 安装 shadowsocks
tar zxf shadowsocks-libev-3.2.0.tar.gz
cd shadowsocks-libev-3.2.0
./configure --prefix=/usr/local/shadowsocks --disable-documentation
make
make install
```

配置 * 加密方式 aes-128-gcm/aes-128-cfb/chacha20-ietf-poly1305

```
# 配置文件: /usr/local/shadowsocks/config.json

{
  "server": "139.162.23.46",
  "server_port": 443,
  "password": "10086",
  "method": "aes-256-cfb",
  "timeout": 60
}

# 启动服务端

/usr/local/shadowsocks/bin/ss-server -c /usr/local/shadowsocks/config.json -u
```

优化

```
# Fast TCP -- 内核版本 ≥ 3.7 shadowsocks-libev ≥ 3.0.4

echo 3 >/proc/sys/net/ipv4/tcp_fastopen

# hybla 流控

sysctl -e net.ipv4.tcp_congestion_control=hybla

# 也可修改内核配置文件 /etc/sysctl.conf 修改
#
# net.ipv4.tcp_fastopen = 3
# net.ipv4.tcp_congestion_control = hybla
```

```
# bbr 流控 -- 内核版本 ≥ 4.9

# 加载 tcp_bbr

modprobe tcp_bbr
echo "tcp_bbr" >/etc/modprobe.d/modules.conf

# 配置 tcp_bbr
```

```
sysctl -e net.core.default_qdisc=fq
sysctl -e net.ipv4.tcp_congestion_control=bbr

# 生效
sysctl -p

— 确认支持 bbr
sysctl net.ipv4.tcp_available_congestion_control
sysctl net.ipv4.tcp_congestion_control

— 确认加载内核模块
lsmod |grep bbr
```

客户端

