

# Установка и настройка сервера asterisk на ubuntu сервере 20.04

```
UBUNTU
Privilegированный Help sa
Узел linuxserver sa@linuxserver: ~
Панель мониторинга
Обзор
Журналы
Хранилище
Сеть
Учётные записи
Службы
Обновления программного обеспечения
Приложения
Терминал
sa@linuxserver: ~$ sudo apt-get install asterisk -y
Setting up fwupd (1.5.11-0ubuntu1-20.04.2) ...
Installing new version of config file /etc/fwupd/daemon.conf ...
Installing new version of config file /etc/fwupd/remotes.d/lvfs-testing.conf ...
Installing new version of config file /etc/fwupd/remotes.d/lvfs.conf ...
Installing new version of config file /etc/fwupd/thunderbolt.conf ...
fwupd-offline-update.service is a disabled or a static unit not running, not starting it.
fwupd-refresh.service is a disabled or a static unit not running, not starting it.
fwupd.service is a disabled or a static unit not running, not starting it.
Setting up openssh-sftp-server (1:8.2p1-4ubuntu0.3) ...
Setting up openssh-server (1:8.2p1-4ubuntu0.3) ...
rescue-ssh.target is a disabled or a static unit, not starting it.
Setting up fwupd-signed (1:27.1ubuntu5+1.5.11-0ubuntu1-20.04.2) ...
Processing triggers for systemd (245.4-4ubuntu3.11) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for ufw (0.36-6) ...
sa@linuxserver:~$ sudo apt wget https://downloads.asterisk.org/pub/telephony/asterisk/releases/asterisk-18.5.1.tar.gz
E: Invalid operation wget
sa@linuxserver:~$ sudo wget https://downloads.asterisk.org/pub/telephony/asterisk/releases/asterisk-18.5.1.tar.gz
--2021-08-11 12:29:58-- https://downloads.asterisk.org/pub/telephony/asterisk/releases/asterisk-18.5.1.tar.gz
Resolving downloads.asterisk.org (downloads.asterisk.org)... 170.249.154.172
Connecting to downloads.asterisk.org (downloads.asterisk.org)[170.249.154.172]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 27953748 (27M) [application/x-gzip]
Saving to: 'asterisk-18.5.1.tar.gz'

asterisk-18.5.1.tar.gz 100%[=====] 26.66M 233KB/s in 84s

2021-08-11 12:31:23 (326 KB/s) - 'asterisk-18.5.1.tar.gz' saved [27953748/27953748]

sa@linuxserver:~$
```

Скачиваем Asterisks- <https://downloads.asterisk.org/pub/telephony/asterisk/releases/asterisk-18.5.1.tar.gz>

```
sa@linuxserver:~$ sudo tar xzf asterisk-18.5.1.tar.gz
[sudo] password for sa:
sa@linuxserver:~$ ls
asterisk-18.5.1 asterisk-18.5.1.tar.gz nextcloud nextcloud-22.0.0.zip
sa@linuxserver:~$
```

Разархивируем папка asterisk

```
sa@linuxserver:~$ sudo apt-get install asterisk -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  asterisk-config asterisk-core-sounds-en asterisk-core-sounds-en-gsm asterisk-modules asterisk-moh-opsound-gsm asterisk-voicemail
  freetds-common libflac8 libgmime-3.0-0 libgsm1 libical3 libiksemel3 libjack-jackd2-0 liblua5.1-0 libneon27-gnutls libodbc1
  libopencore-amrnb0 libopencore-amrwb0 libportaudio2 libpq5 libradcli4 libresample1 libsamplerate0 libsensors-config libsensors5
  libsndfile1 libsnmp-base libsnmp35 libsox-fmt-alsa libsox-fmt-base libsox3 libspandsp2 libspeex1 libspeexdsp1 libstrtp2-1 libsybdb5
  libunbound8 liburiparser1 libvorbisenc2 libwavpack1 sox
Suggested packages:
  asterisk-dahdi asterisk-dev asterisk-doc asterisk-oooh323 asterisk-opus asterisk-vpb jackd2 libmyodbc odbc-postgresql tdsodbc
  unixodbc-bin lm-sensors snmp-mibs-downloader libsox-fmt-all speex
The following NEW packages will be installed:
  asterisk asterisk-config asterisk-core-sounds-en asterisk-core-sounds-en-gsm asterisk-modules asterisk-moh-opsound-gsm
  asterisk-voicemail freetds-common libflac8 libgmime-3.0-0 libgsm1 libical3 libiksemel3 libjack-jackd2-0 liblua5.1-0 libneon27-gnutls
  libodbc1 libopencore-amrnb0 libopencore-amrwb0 libportaudio2 libpq5 libradcli4 libresample1 libsamplerate0 libsensors-config
  libsensors5 libsndfile1 libsnmp-base libsnmp35 libsox-fmt-alsa libsox-fmt-base libsox3 libspandsp2 libspeex1 libspeexdsp1 libstrtp2-1
  libsybdb5 libunbound8 liburiparser1 libvorbisenc2 libwavpack1 sox
0 upgraded, 42 newly installed, 0 to remove and 0 not upgraded.
Need to get 14.8 MB of archives.
After this operation, 43.5 MB of additional disk space will be used.
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 asterisk-config all 1:16.2.1~dfsg-2ubuntu1 [428 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 asterisk-core-sounds-en-gsm all 1.6.1-1 [2417 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 asterisk-core-sounds-en all 1.6.1-1 [20.6 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 libgmime-3.0-0 amd64 3.2.7-1 [157 kB]
Get:5 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 libgsm1 amd64 1.0.18-2 [24.4 kB]
Get:6 http://ru.archive.ubuntu.com/ubuntu focal/main amd64 libical3 amd64 3.0.8-1 [276 kB]
```

Установим Asterisks

## Установка и настройка сервера asterisk на ubuntu сервере 20.04

```
sa@linuxserver:~$ sudo asterisk -r
Asterisk 16.2.1~dfsg-2ubuntu1, Copyright (C) 1999 - 2018, Digium, Inc. and others.
Created by Mark Spencer <markster@digium.com>
Asterisk comes with ABSOLUTELY NO WARRANTY; type 'core show warranty' for details.
This is free software, with components licensed under the GNU General Public
License version 2 and other licenses; you are welcome to redistribute it under
certain conditions. Type 'core show license' for details.
=====
Connected to Asterisk 16.2.1~dfsg-2ubuntu1 currently running on linuxserver (pid = 320042)
linuxserver*CLI> |
```

### Запускаем Asterisk

```
sa@linuxserver:/etc/asterisk$ ls
acl.conf                cdr_mysql.conf          confbridge.conf        iaxprov.conf           pjsip_notify.conf     say.conf
ads_i.conf              cdr_odbc.conf           config_test.conf       indications.conf       pjsip_wizard.conf     sip.conf
agents.conf             cdr_pgsql.conf          console.conf           logger.conf            queuerules.conf       sip_notify.conf
alarmreceiver.conf     cdr_sqlite3_custom.conf dbsep.conf             manager.conf           queues.conf            sla.conf
alsa.conf              cdr_syslog.conf         dnsmgr.conf            manager.d              res_config_mysql.conf smdi.conf
amd.conf               cdr_tds.conf            dsp.conf               meetme.conf           res_config_sqlite.conf sorcery.conf
app_mysql.conf         cel.conf                enum.conf              minivm.conf           res_config_sqlite3.conf ss7.timers
app_skel.conf          cel_banstalkd.conf     extconfig.conf         misd_n.conf           res_corosync.conf     stasis.conf
ari.conf               cel_custom.conf         extensions.ael          modules.conf           res_curl.conf          statsd.conf
ast_debug_tools.conf  cel_odbc.conf           extensions.conf         motif.conf            res_fax.conf          telcordia-1.ads_i
asterisk.ads_i         cel_pgsql.conf          extensions.lua          musiconhold.conf      res_ldap.conf         test_sorcery.conf
asterisk.conf          cel_sqlite3_custom.conf extensions_minivm.conf muted.conf             res_odbc.conf         udptl.conf
calendar.conf          cel_tds.conf            features.conf           ooh323.conf          res_parking.conf      users.conf
ccss.conf              chan_dahdi.conf         festival.conf          osp.conf              res_pgsql.conf        voicemail.conf
cdr.conf               chan_mobile.conf        followme.conf          oss.conf              res_pktccops.conf     vpb.conf
cdr_adaptive_odbc.conf cli.conf                func_odbc.conf         phone.conf            res_snmp.conf         xmpp.conf
cdr_banstalkd.conf    cli_aliases.conf        hep.conf               phoneprov.conf        res_stun_monitor.conf
cdr_custom.conf        cli_permissions.conf    http.conf              pjproject.conf        resolver_unbound.conf
cdr_manager.conf       codecs.conf             iax.conf               pjsip.conf           rtp.conf
```

Нужно сделать бэкап и редактировать файлы sip.conf, extension.conf, voicemail.conf

```
$ /etc/asterisk $ sudo mv sip.conf sip.conf.backup
```

```
$ /etc/asterisk $ sudo mv extension.conf extension.conf.backup
```

```
$ /etc/asterisk $ sudo mv voicemail.conf voicemail.conf.backup
```

```
sa@linuxserver:/etc/asterisk$ ls
acl.conf                cdr_syslog.conf         extensions.ael          muted.conf             res_snmp.conf
ads_i.conf              cdr_tds.conf            extensions.conf         ooh323.conf           res_stun_monitor.conf
agents.conf             cel.conf                extensions.conf.backup osp.conf              resolver_unbound.conf
alarmreceiver.conf     cel_banstalkd.conf     extensions.lua          oss.conf              rtp.conf
alsa.conf              cel_custom.conf         extensions_minivm.conf phone.conf            say.conf
amd.conf               cel_odbc.conf           features.conf           phoneprov.conf        sip.conf
app_mysql.conf         cel_pgsql.conf          festival.conf          pjproject.conf        sip.conf.backup
app_skel.conf          cel_sqlite3_custom.conf followme.conf          pjsip.conf           sip_notify.conf
ari.conf               cel_tds.conf            func_odbc.conf         pjsip_notify.conf    sla.conf
ast_debug_tools.conf  chan_dahdi.conf         hep.conf               pjsip_wizard.conf    smdi.conf
asterisk.ads_i        chan_mobile.conf        http.conf              queuerules.conf      sorcery.conf
asterisk.conf          cli.conf                iax.conf              queues.conf           ss7.timers
calendar.conf          cli_aliases.conf        iaxprov.conf          res_config_mysql.conf stasis.conf
ccss.conf              cli_permissions.conf    indications.conf       res_config_sqlite.conf statsd.conf
cdr.conf               codecs.conf             logger.conf            res_config_sqlite3.conf telcordia-1.ads_i
cdr_adaptive_odbc.conf confbridge.conf         manager.conf           res_corosync.conf    test_sorcery.conf
cdr_banstalkd.conf    config_test.conf        manager.d              res_curl.conf         udptl.conf
cdr_custom.conf        console.conf            meetme.conf           res_fax.conf          users.conf
cdr_manager.conf       dbsep.conf             minivm.conf           res_ldap.conf        voicemail.conf
cdr_mysql.conf         dnsmgr.conf            misd_n.conf           res_odbc.conf        voicemail.conf.backup
cdr_odbc.conf          dsp.conf               modules.conf          res_parking.conf     vpb.conf
cdr_pgsql.conf         enum.conf              motif.conf            res_pgsql.conf       xmpp.conf
cdr_sqlite3_custom.conf extconfig.conf          musiconhold.conf      res_pktccops.conf
```

## Установка и настройка сервера asterisk на ubuntu сервере 20.04

```
GNU nano 4.8 sip.conf

[general]
context=internal
allowguest=no
allowoverlap=no
bindport=5060
bindaddr=0.0.0.0
srvlookup=no
disallow=all
allow=ulaw
alwaysauthreject=yes
canreinvite=no
nat=yes
session-timers=refuse
localnet=128.0.0.0/255.255.0.0
externip=[REDACTED]
```

```
[7001]
type=friend
host=dynamic
secret=[REDACTED]
context=internal

[7002]
type=friend
host=dynamic
secret=[REDACTED]
context=internal

[7003]
type=friend
host=dynamic
secret=[REDACTED]
context=internal
```

Редактируем sip.conf файл. Localnet является диапазоны серый IP и 'subnet mask' в вашей организации. Externsip является ваш белый IP или домен. Я создал 3 'peers' у каждого есть свой ID и пароль который будем использовать для авторизации

```
GNU nano 4.8 extensions.conf

[internal]
exten => 7001,1,Answer()
exten => 7001,2,Dial(SIP/7001,60)
exten => 7001,3,Playback(vm-nobodyavail)
exten => 7001,4,VoiceMail(7001@main)
exten => 7001,5,Hangup()

exten => 7002,1,Answer()
exten => 7002,2,Dial(SIP/7002,60)
exten => 7002,3,Playback(vm-nobodyavail)
exten => 7002,4,VoiceMail(7002@main)
exten => 7002,5,Hangup()

exten => 7003,1,Answer()
exten => 7003,2,Dial(SIP/7003,60)
exten => 7003,3,Playback(vm-nobodyavail)
exten => 7003,4,VoiceMail(7003@main)
exten => 7003,5,Hangup()
```

Редактируем extensions.conf файл

## Установка и настройка сервера asterisk на ubuntu сервере 20.04

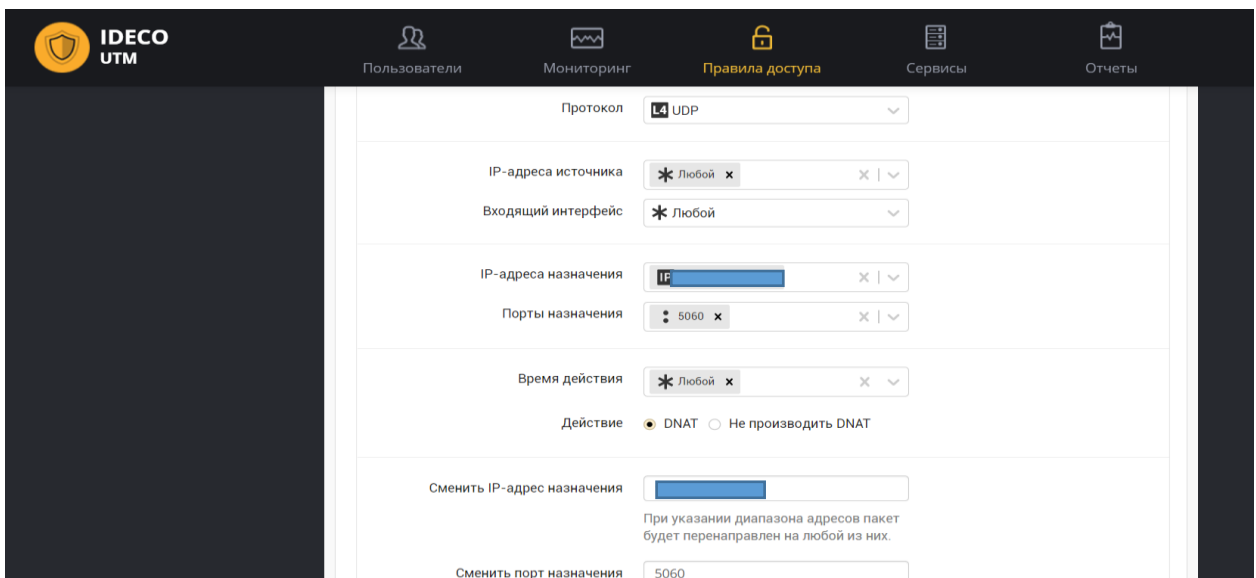
```
GNU nano 4.8                                voicemail.conf
[main]
7001 => 1
7002 => 4
7003 => 1
```

Редактируем voicemail.conf файл каждый peer => свой secret

```
sa@linuxserver:/etc/asterisk$ sudo asterisk -r
Asterisk 16.2.1~dfsg-2ubuntu1, Copyright (C) 1999 - 2018, Digium, Inc. and others.
Created by Mark Spencer <markster@digium.com>
Asterisk comes with ABSOLUTELY NO WARRANTY; type 'core show warranty' for details.
This is free software, with components licensed under the GNU General Public
License version 2 and other licenses; you are welcome to redistribute it under
certain conditions. Type 'core show license' for details.
=====
Connected to Asterisk 16.2.1~dfsg-2ubuntu1 currently running on linuxserver (pid = 320042)
linuxserver*CLI> reload
[Aug 11 14:24:49] NOTICE[338124]: res_config_ldap.c:1830 parse_config: No directory user found, anonymous binding as default.
[Aug 11 14:24:49] ERROR[338124]: res_config_ldap.c:1856 parse_config: No directory URL or host found.
[Aug 11 14:24:49] NOTICE[338124]: res_config_ldap.c:1774 reload: Cannot reload LDAP RealTime driver.
[Aug 11 14:24:49] NOTICE[338124]: cdr.c:4485 cdr_toggle_runtime_options: CDR simple logging enabled.
[Aug 11 14:24:49] NOTICE[338151]: sorcery.c:1266 sorcery_object_load: Type 'system' is not reloadable, maintaining previous values
[Aug 11 14:24:49] WARNING[338124]: res_phoneprov.c:1230 get_defaults: Unable to find a valid server address or name.
[Aug 11 14:24:49] WARNING[338124]: config.c:1944 process_text_line: parse error: No category context for line 1 of /etc/asterisk/sip.conf
[Aug 11 14:24:49] WARNING[320111]: config.c:1944 process_text_line: parse error: No category context for line 1 of /etc/asterisk/sip.conf
[Aug 11 14:24:49] ERROR[320111]: chan_sip.c:32464 reload_config: Contents of sip.conf are invalid and cannot be parsed
[Aug 11 14:24:49] NOTICE[320109]: chan_mgcp.c:4707 reload_config: Unable to load config mgcp.conf, MGCP disabled
[Aug 11 14:24:49] ERROR[338124]: ari/config.c:312 process_config: No configured users for ARI
[Aug 11 14:24:49] NOTICE[338124]: cel_custom.c:95 load_config: No mappings found in cel_custom.conf. Not logging CEL to custom CSVs.
[Aug 11 14:24:49] WARNING[338124]: config.c:1944 process_text_line: parse error: No category context for line 1 of /etc/asterisk/voicemail.conf
[Aug 11 14:24:49] ERROR[338124]: app_voicemail.c:13756 load_config: Config file voicemail.conf is in an invalid format. Aborting.
[Aug 11 14:24:49] WARNING[338124]: config.c:1944 process_text_line: parse error: No category context for line 1 of /etc/asterisk/extensions.conf
[Aug 11 14:24:49] NOTICE[338124]: app_queue.c:9096 reload_queue_rules: queuerules.conf has not changed since it was last loaded. Not taking any action.
linuxserver*CLI>
```

Надо запустить asterisk сервер и сделать reload

```
sa@linuxserver:/etc/asterisk$ sudo ufw allow 5060/udp
Rules updated
Rules updated (v6)
```



## Установка и настройка сервера asterisk на ubuntu сервере 20.04

Открываем UDP-порт 5060 в сервере где установлен asterisk тоже самое надо сделать в роутере в моем случае я открыл порт в Ideco-UTM. В поле IP адреса назначения пишем белый IP в поле сменить IP адрес назначения пишем серый IP адрес сервер где установлен asterisk

```
sa@linuxserver:/etc/asterisk$ sudo asterisk -r
[sudo] password for sa:
Asterisk 16.2.1~dfsg-2ubuntu1, Copyright (C) 1999 - 2018, Digium, Inc. and others.
Created by Mark Spencer <markster@digium.com>
Asterisk comes with ABSOLUTELY NO WARRANTY; type 'core show warranty' for details.
This is free software, with components licensed under the GNU General Public
License version 2 and other licenses; you are welcome to redistribute it under
certain conditions. Type 'core show license' for details.
=====
Connected to Asterisk 16.2.1~dfsg-2ubuntu1 currently running on linuxserver (pid = 912)
linuxserver*CLI> sip show peers
No such command 'sip show peers' (type 'core show help sip show' for other possible commands)
linuxserver*CLI>
```

Надо запустить и восстановить asterisk сервер чтобы исправить ошибка - [No such command 'sip show peers'](#)

```
sa@linuxserver:/usr/src/asterisk-18.6.0$ sudo ./configure
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking how to run the C preprocessor... gcc -E
checking for grep that handles long lines and -e... /usr/bin/grep
checking for egrep... /usr/bin/grep -E
```

```
..7$ .?. $$$$ .?. 7$$$
$.$. .$$$7. $$$7 .7$$$ .$$$
.777. .$$$$77$$$$77$$$$7. $$$
$$$~ .7$$$$$$$$7. $$$
.77 .7$$$$7: ?$$$
$$$ ?7$$$$$$$I .$$$7
$$$ .7$$$$$$$$$$$ :$$$
$$$ $$$$$7$$$$$$$$$$$ .$$$
$$$ $$$ 7$$$7 .$$$ .$$$
$$$$ $$$7 .$$$
7$$$7 7$$$ 7$$$
$$$$ $$$
$$$7. $$$ (TM)
$$$$$. .7$$$$ $
$$$$$$$$7$$$$$$$$. $$$
$$$$$$$$$.
```

```
configure: Package configured for:
configure: OS type : linux-gnu
configure: Host CPU : x86_64
configure: build-cpu:vendor:os: x86_64 : pc : linux-gnu :
configure: host-cpu:vendor:os: x86_64 : pc : linux-gnu :
sa@linuxserver:/usr/src/asterisk-18.6.0$
```



## Установка и настройка сервера asterisk на ubuntu сервере 20.04

После этого проверим если asterisk запущен

```
sa@linuxserver:/usr/src/asterisk-18.6.0$ sudo service asterisk status
● asterisk.service - Asterisk PBX
   Loaded: loaded (/lib/systemd/system/asterisk.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2021-08-13 12:58:49 MSK; 3h 34min ago
     Docs: man:asterisk(8)
   Main PID: 21463 (asterisk)
    Tasks: 64 (limit: 9448)
   Memory: 55.8M
   CGroup: /system.slice/asterisk.service
           └─21463 /usr/sbin/asterisk -g -f -p -U asterisk
             └─21471 astcanary /var/run/asterisk/alt.asterisk.canary.tweet.tweet.tweet 21463

Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] ERROR[23633]: res_config_ldap.c:1856>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] NOTICE[23633]: res_config_ldap.c:177>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] NOTICE[23633]: cdr.c:4485 cdr_toggle>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] NOTICE[23641]: sorcery.c:1266 sorcer>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] WARNING[23633]: res_phoneprov.c:1230>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] WARNING[23633]: config.c:1944 proces>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] NOTICE[21518]: chan_mgcp.c:4707 relo>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] ERROR[23633]: ari/config.c:312 proce>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] NOTICE[23633]: cel_custom.c:95 load_>
Aug 13 13:12:04 linuxserver asterisk[21463]: [Aug 13 13:12:04] NOTICE[23633]: app_queue.c:9096 relo>
```

Надо запустить asterisk сервер и сделать reload

```
sa@linuxserver:/etc/asterisk$ sudo asterisk -rv
Asterisk 16.2.1~dfsg-2ubuntu1, Copyright (C) 1999 - 2018, Digium, Inc. and others.
Created by Mark Spencer <markster@digium.com>
Asterisk comes with ABSOLUTELY NO WARRANTY; type 'core show warranty' for details.
This is free software, with components licensed under the GNU General Public
License version 2 and other licenses; you are welcome to redistribute it under
certain conditions. Type 'core show license' for details.
=====
Connected to Asterisk 16.2.1~dfsg-2ubuntu1 currently running on linuxserver (pid = 768953)
linuxserver*CLI> module load chan_sip.so
Unable to load module chan_sip.so
Command 'module load chan_sip.so' failed.
[Aug 25 01:23:42] WARNING[769244]: loader.c:1631 load_resource: Module 'chan_sip.so' already loaded
and running.
linuxserver*CLI> reload
Asterisk Queue Logger restarted
[Aug 25 01:24:22] NOTICE[769244]: res_config_ldap.c:1830 parse_config: No directory user found, anon
ymous binding as default.
[Aug 25 01:24:22] ERROR[769244]: res_config_ldap.c:1856 parse_config: No directory URL or host found
.
[Aug 25 01:24:22] NOTICE[769244]: res_config_ldap.c:1774 reload: Cannot reload LDAP RealTime driver.
[Aug 25 01:24:22] NOTICE[769244]: cdr.c:4485 cdr_toggle_runtime_options: CDR simple logging enabled.
[Aug 25 01:24:22] NOTICE[769295]: sorcery.c:1266 sorcery_object_load: Type 'system' is not reloadabl
```

```
[Aug 25 01:24:22] NOTICE[769244]: app_queue.c:9096 reload_queue_rules: queuerules.conf has not chang
ed since it was last loaded. Not taking any action.
linuxserver*CLI> sip show peers
Name/username      Host                               Dyn Forcerport Comedia  ACL Port
Status            Description
7001                (Unspecified)                    D Yes         Yes      0
Unmonitored
7002                (Unspecified)                    D Yes         Yes      0
Unmonitored
2 sip peers [Monitored: 0 online, 0 offline Unmonitored: 0 online, 2 offline]
linuxserver*CLI> █
```

Теперь 'sip show peers' работает осталось только подключить устройств

## Установка и настройка сервера asterisk на ubuntu сервере 20.04

```
asterisk.org/wiki/display/AST/SIP+Retransmissions
Packet timed out after 32000ms with no response
[Aug 25 14:50:24] NOTICE[840656][C-0000030a]: chan_sip.c:26601 handle_request_invite: Failed to authenticate device <sip:1001@128.1.13.100:5060>;tag=223958405
linuxserver*CLI> sip show peers
Name/username      Host                Dyn Forcerport Comedia   ACL Port
Status            Description
7001/7001          128.1.10.222       D Yes      Yes      6343
0 Unmonitored
7002/7002          128.1.10.116       D Yes      Yes      5477
7 Unmonitored
7003/7003          176.59.38.253      D Yes      Yes      3276
1 Unmonitored
3 sip peers [Monitored: 0 online, 0 offline Unmonitored: 3 online, 0 offline]
[Aug 25 14:50:26] WARNING[840656]: chan_sip.c:4119 retrans_pkt: Retransmission timeout reached on transmission 169064673-287972997-605913117 for seqno 2 (Critical Response) -- See https://wiki.asterisk.org/wiki/display/AST/SIP+Retransmissions
Packet timed out after 32000ms with no response
linuxserver*CLI> █
```

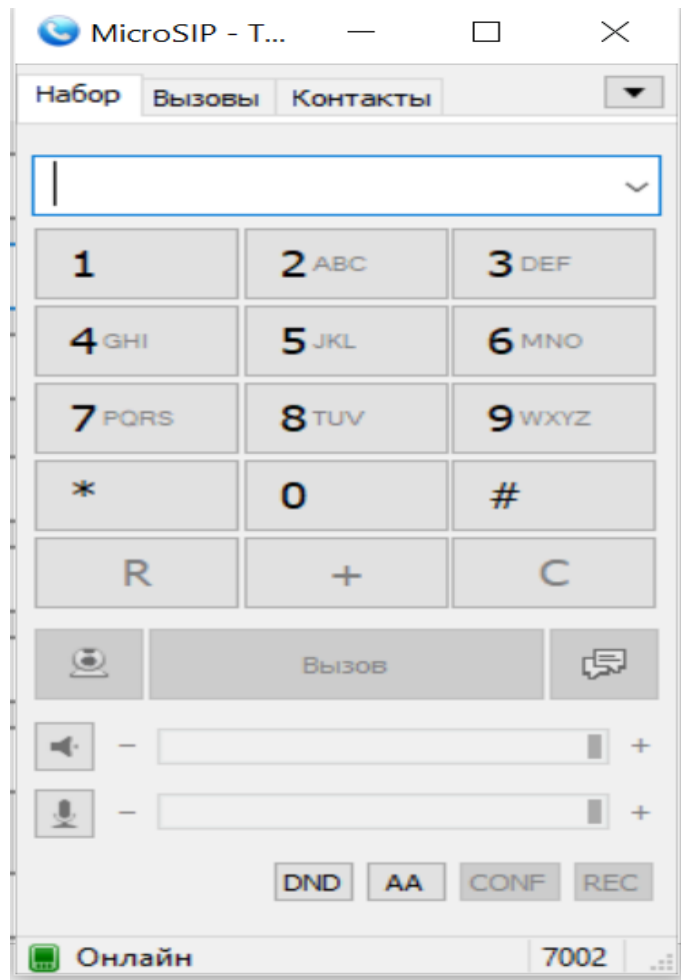
Все peer подключены. Я подключил peer 7001 (sa) и 7002 (THC) на компьютере с помощью программа [MicroSIP](#). Peer 7003 подключил к мобильным телефонам с помощью программы [Zoiper](#) и [MizuDroid](#)

Аккаунт ✕

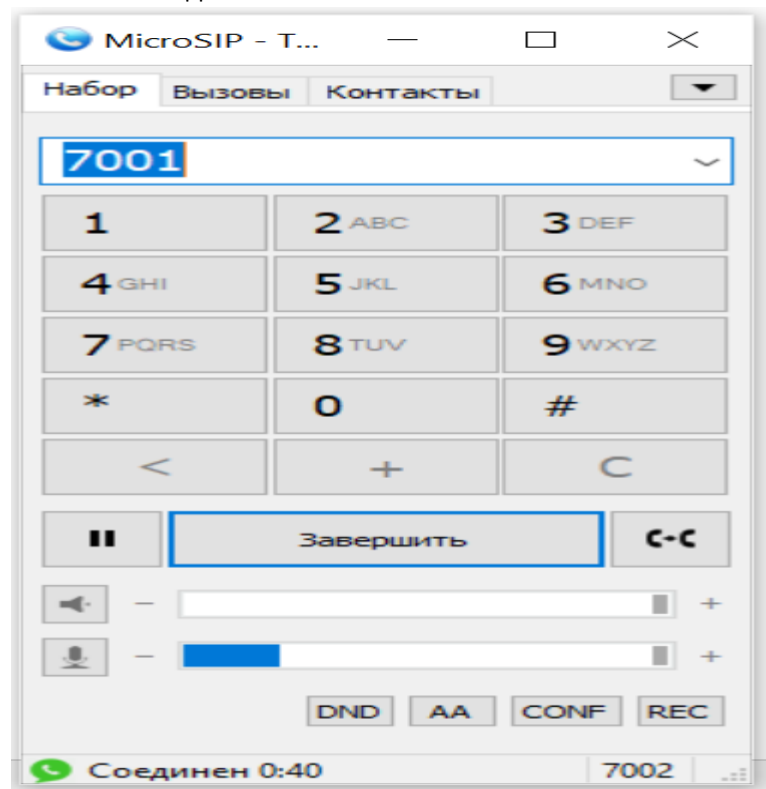
Название аккаунта	<input type="text" value="THC"/>	
SIP сервер	<input type="text"/>	<a href="#">?</a>
SIP прокси	<input type="text"/>	<a href="#">?</a>
Имя пользователя *	<input type="text" value="7002"/>	<a href="#">?</a>
Домен *	<input type="text"/>	<a href="#">?</a>
Логин	<input type="text"/>	<a href="#">?</a>
Пароль	<input type="password" value="***"/>	<a href="#">?</a>
Ваше имя	<input type="text" value="THC"/>	<a href="#">?</a>
Голосовая почта	<input type="text"/>	<a href="#">?</a>
Префикс набора	<input type="text"/>	<a href="#">?</a>
План набора	<input type="text"/>	<a href="#">?</a>
	<input type="checkbox"/> Hide Caller ID	<a href="#">?</a>
Шифрование медиа	<input type="text" value="Отключено"/>	<a href="#">?</a>
Транспорт	<input type="text" value="UDP"/>	<a href="#">?</a>
Публичный адрес	<input type="text" value="Авто"/>	<a href="#">?</a>
Обновление регис...	<input type="text" value="300"/> Keep-Alive <input type="text" value="15"/>	
	<input type="checkbox"/> Публиковать присутствие	<a href="#">?</a>
	<input type="checkbox"/> Разрешить перезапись IP	<a href="#">?</a>
	<input type="checkbox"/> ICE	<a href="#">?</a>
	<input type="checkbox"/> Отключить таймеры сессии	<a href="#">?</a>

SIP сервер является сервер где asterisk установлен. Домен является белый IP адрес, а пароль является secret peer

## Установка и настройка сервера asterisk на ubuntu сервере 20.04



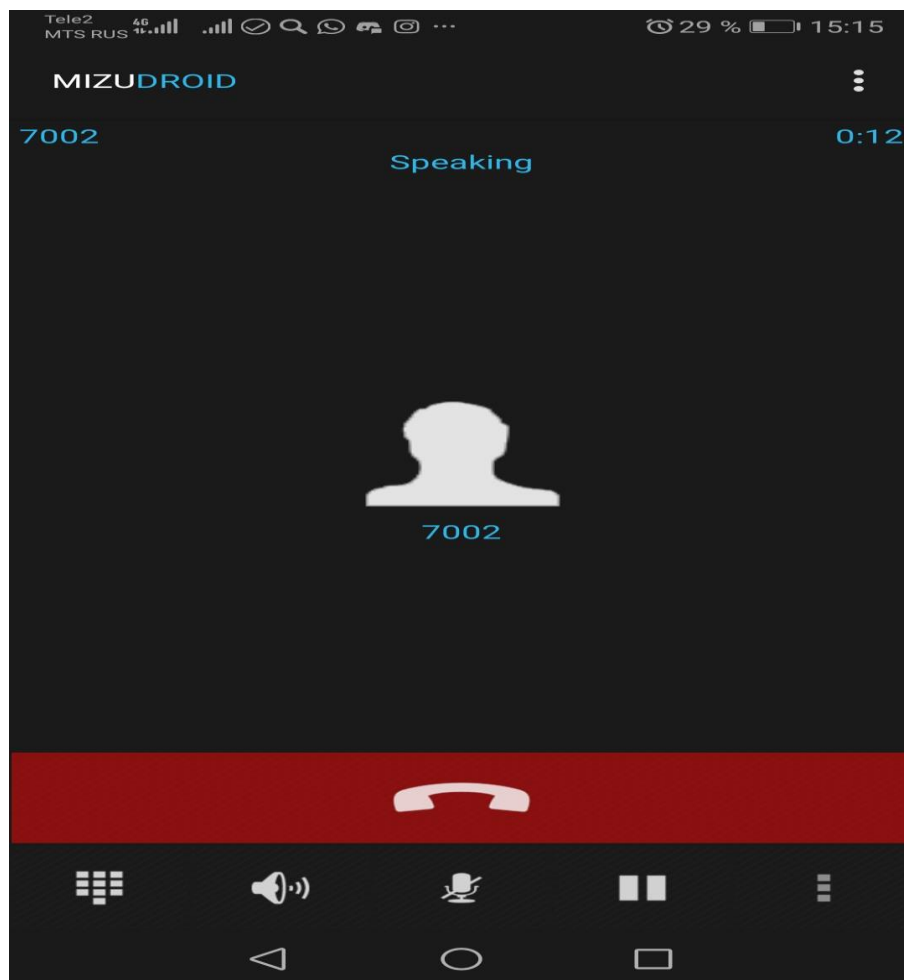
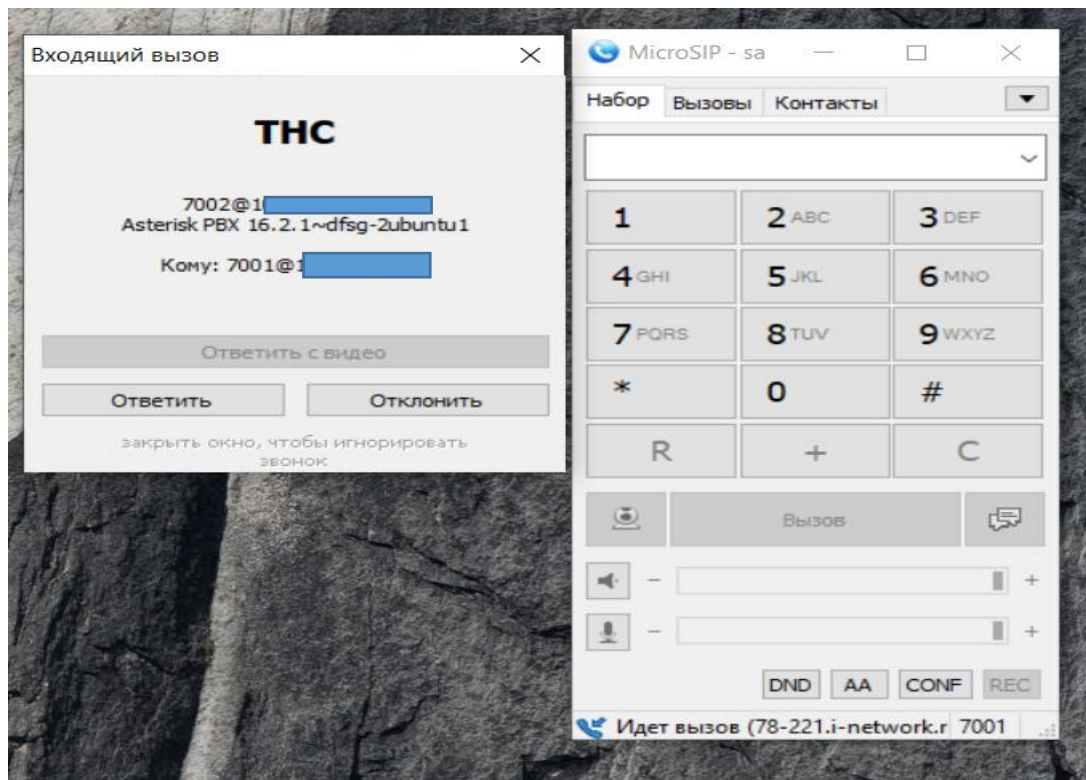
После подключения показывает состояние- онлайн



Позвоним peer 7001 (sa), все работает

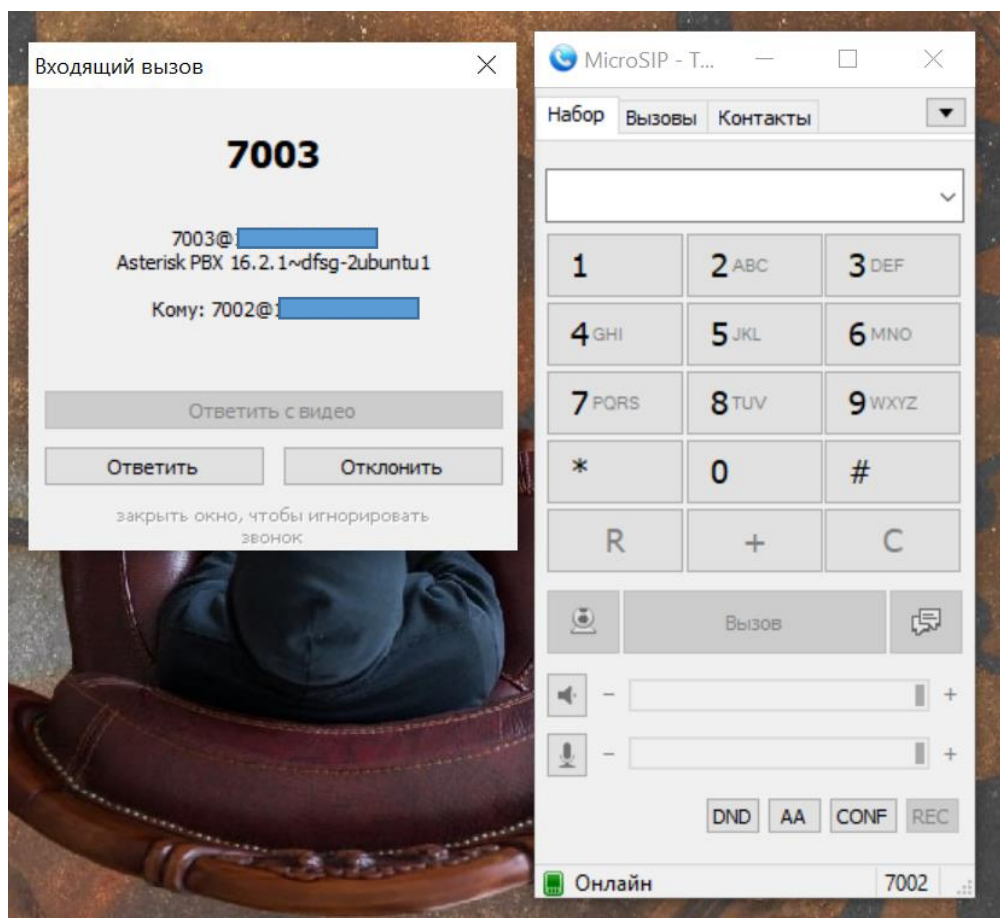
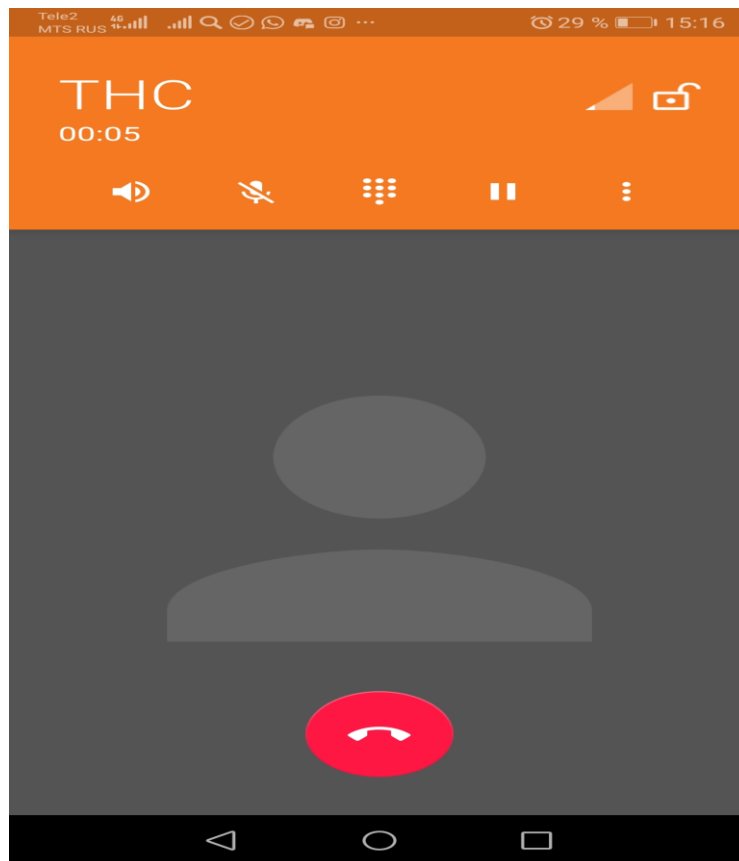


## Установка и настройка сервера asterisk на ubuntu сервере 20.04



На мобилный телефоне тоже все работает в приложении [MizuDroid](#)

## Установка и настройка сервера asterisk на ubuntu сервере 20.04



Также все работает в приложении [Zoiper](#)