



Как администрировать Asterisk и не сойти с ума



Доброе утро



AC
'22

2009



2009



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2009



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'22

2014



2014



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2014



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Как выбрать сервер по шкале от 1 до 5

	Цена	Мощность	Надежность	Обслуживание
Desktop	3	3	3	4
Server	5	5	5	3
VPS	5	3	4	2
Raspberry PI	1	1	5	2



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Как выбрать сервер asterisk / freepbx



	Asterisk	FreePBX	Asterisk+++
CPU	30Mhz / channel 1 core	100Mhz / channel 2 - 4 core	200Mhz / channel 4 core +
RAM	1GB	4GB	4GB+
HDD	500GB+	500GB+	500GB+
SSD	60GB	250GB	250GB



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Сборка Asterisk



- `install_pererequisite install`
- `make menuselect`
- `make`
- `make install`
- `make samples`
- `make clean`
- `make config`
- `make install-logrotate`
- `make basic-pbx`

<https://wiki.asterisk.org/>

Выбрать модули - modules.conf

- `autoload` - если этот параметр включен, Asterisk будет автоматически загружать все модули из `/usr/lib/asterisk/modules/`
- `preload` - используется для указания модулей загрузки перед инициализацией ядра Asterisk.
- `require` - установить требуемый модуль. Если требуемый модуль не загружается, Asterisk завершает работу.
- `preload-require` - комбинация `preload` и `require`.
- `noload` - не загружать указанный модуль.
- `load` - загрузить указанный модуль. Обычно используется, когда `autoload=no`



- Набор модулей - /usr/src/asterisk-18.11.2/configs/basic-pbx/modules.conf

```
CLI> module unload -f res_pjsip (-f force)
```

[illegible][illegible]

```

[2022-09-19 13:16:44] 18000 [234]: res_sjsys_config:c328 sorcery_config_internal_load: Unable to load config file 'codescm.conf'
Registered handler for name 'opsa'
Registered handler for name 'opsa' from code sjs to ops, table cost, 80000, computational cost 99999
Registered handler for name 'opsa' from code ops to sjs, table cost, 80000, computational cost 99999
codescm_ops => (PSIP Code Decoder)
Loading res_sjsys_resolver.so => (thread listing interface)
res_listing_thread.so => (thread listing interface)
Loading res_listing_thread.so => (thread listing interface)
res_listing_thread.so => (thread listing interface)
Loading res_listing_defmt.so => (CNAME listing interface)
res_listing_defmt.so => (CNAME listing interface)
Loading res_pjsipproject.so
[2022-09-19 13:16:44] 18000 [234]: res_sjsys_config:c328 sorcery_config_internal_load: Unable to load config file 'pjsipproject.conf'
res_pjsipproject.so => (PJSIP00321 ring and utility support)
Loading res_pjsip.so => (PJSIP)
Local IPv4 address determined to be: 192.168.253.136
Local IPv4 address determined to be: 1601.1640.127ff:fe0c:fc8a
Manager registered action P321Pjsipowndomains
Manager registered action P321Pjsipowndomains
Manager registered action P321Pjsipowndomains
Manager registered action P321Pjsipowndomains
[2022-09-19 13:16:44] 18000 [234]: res_pjsip_config_wizard:c1808 object_type_loaded_observers: Unable to load config file 'pjsip.wizard.conf'
[2022-09-19 13:16:44] 18000 [234]: res_pjsip_config_wizard:c1808 object_type_loaded_observers: Unable to load config file 'pjsip.wizard.conf'
[2022-09-19 13:16:44] 18000 [234]: res_pjsip_config_wizard:c1808 object_type_loaded_observers: Unable to load config file 'pjsip.wizard.conf'
[2022-09-19 13:16:44] 18000 [234]: res_pjsip_config_wizard:c1808 object_type_loaded_observers: Unable to load config file 'pjsip.wizard.conf'
"TCP/IP" is not an available SIP transport, disabling resolver support for it
"TCP/IP" is not an available SIP transport, disabling resolver support for it
"UDP/IP" is not an available SIP transport, disabling resolver support for it
"TCP/IP" is not an available SIP transport, disabling resolver support for it
"TCP/IP" is not an available SIP transport, disabling resolver support for it
"TCP/IP" is not an available SIP transport, disabling resolver support for it
Manager registered action P321PjsipQualify
Manager registered action P321PjsipContacts
res_pjsip.so => (Basic SIP resources)
Loading res_sjsys_authenticator_digest.so
res_sjsys_authenticator_digest.so => (PJSIP authentication resources)
Loading res_resolver_unbound.so
Starting unbound resolver with default configuration
Registered MD resolver 'unbound' with priority '100'
res_resolver_unbound.so => (Unbound DNS Resolver support)
Loading res_pjsip_endpoint_identifier.so
dialer-CLD
dialer-CLD
[2022-09-19 13:16:44] 18000 [234]: res_pjsip_config_wizard:c1808 object_type_loaded_observers: Unable to load config file 'pjsip.wizard.conf'
res_pjsip_endpoint_identifier_user.so => (PJSIP ID endpoint identifier)
Loading res_pjsip_endpoint_identifier_user.so
res_pjsip_endpoint_identifier_user.so => (PJSIP username endpoint identifier)
Loading res_pjsip_register.so
Manager registered action P321PjsipRegistrationsUnbound
Manager registered action P321PjsipRegistrationsUnboundContactStatuses
[2022-09-19 13:16:44] 18000 [234]: res_sjsys_config:c328 sorcery_config_internal_load: Unable to load config file 'sjsys_shown.conf'
Loading res_sjsys_shown.conf
[2022-09-19 13:16:44] 18000 [234]: res_sjsys_config:c328 sorcery_config_internal_load: Unable to load config file 'sjsys_shown.conf'
Registered custom function 'BTRX SHARED'
Loading res_sjsysconf.so => (SJSYS SHARED for Asterisk)
Loading res_sjsysconf.so

```

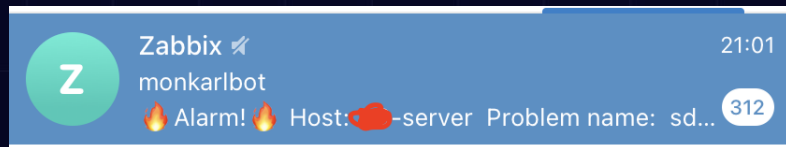


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Кто получает уведомления и как ?

- Директор
- Менеджер
- Админ
- Эникейщик
- Я
- Никто



- Telegram
- Slack
- Email
- Звонок
- Bash
- Printer / fax

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Originate — как использовать

- originate PJSIP/84959898533@new-trunk-endpoint application echo
- originate PJSIP/84959898533@new-trunk-endpoint application Milliwatt
- originate LOCAL/123@new-context extension 717@from-internal
- originate LOCAL/123@new-context extension 84959898533@from-internal

```
#!/bin/bash
```

```
asterisk -rx"originate LOCAL/84959898533@from-internal application echo"  
asterisk -rx"originate LOCAL/88003337533@from-internal application echo"  
asterisk -rx"originate LOCAL/84993468817@from-internal application echo"
```



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Спасибо за внимание!

У кого-нибудь есть вопросы?

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Пожалуйста, дайте оценку
моему докладу прямо сейчас

