

SSH

- -
 -
- -
- `ssh`
- -



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- Astra Linux Special Edition .10015-01 .10015-10 (1.7)
- Astra Linux Special Edition .10015-37 (7.7)
- Astra Linux Special Edition .10152-02 (4.7)
- Astra Linux Special Edition .10015-01 (1.6)
- Astra Linux Special Edition .10015-16 . 1 . 2
- Astra Linux Special Edition .10265-01 (8.1)
- Astra Linux Common Edition 2.12

SSH (— openssh-server — openssh-client) Astra Linux. (openssh-client).

:

- , . openssh-server;
- (. `synaptic`) :

```
sudo apt install ssh
```

ssh .

, .

, :

- Astra Linux Common Edition 2.12.12 Astra Linux Special Edition x.7 SSH ;
- SSH . :

```
sudo systemctl enable ssh
```

SSH :

```
sudo systemctl start ssh
```

ssh

:

```
systemctl status ssh
```

/etc/ssh/sshd_config. :

```
systemctl restart sshd
```



, , :

```
AllowGroups "group name@domain.name"
```

man:

man sshd_config

:

- **Port** - , (22) - ;
- **MaxAuthTries** - (6) - , , 3;
- **LoginGraceTime** - , (2m) - , 30s.

, IP-, , :

- /etc/hosts.deny :



/etc/hosts.deny: list of hosts that are **_not_** allowed to access the system.

See the manual pages hosts_access(5) and hosts_options(5).

#

Example: ALL: [some.host.name](#), .some.domain

ALL EXCEPT in.fingerd: [other.host.name](#), .other.domain

#

If you're going to protect the portmapper use the name "rpcbind" for the
daemon name. See rpcbind(8) and rpc.mountd(8) for further information.

#

The PARANOID wildcard matches any host whose name does not match its
address.

#

You may wish to enable this to ensure any programs that don't
validate looked up hostnames still leave understandable logs. In past
versions of Debian this has been the default.

ALL: PARANOID

SSHD: ALL

- /etc/hosts.allow :



/etc/hosts.allow: list of hosts that are allowed to access the system.

See the manual pages hosts_access(5) and hosts_options(5).

#

Example: ALL: LOCAL @some_netgroup

ALL: [.foobar.edu](#) EXCEPT [terminalserver.foobar.edu](#)

#

If you're going to protect the portmapper use the name "rpcbind" for the
daemon name. See rpcbind(8) and rpc.mountd(8) for further information.

#

SSHD: 192.168.1.1

SSHD: 192.168.0.0/16

, " "

/etc/ssh/ssh_config. "-".

.

(cipher) (mac) :

```
ssh -Q cipher
ssh -Q mac
```

Astra Linux ssh :

3des-cbc
 blowfish-cbc
 cast128-cbc
 arcfour
 arcfour128
 arcfour256
 aes128-cbc
 aes192-cbc
 aes256-cbc
 rijndael-cbc@lysator.liu.se
 aes128-ctr
 aes192-ctr
 aes256-ctr
 grasshopper-cbc (34.13–2015 "")
 grasshopper-ctr (34.13–2015 "")
 aes128-gcm@openssh.com
 aes256-gcm@openssh.com
 chacha20-poly1305@openssh.com

Astra Linux ssh :

hmac-sha1
 hmac-sha1-96
 hmac-sha2-256
 hmac-sha2-512
 hmac-md5
 hmac-md5-96
 hmac-ripemd160
 hmac-ripemd160@openssh.com
 umac-64@openssh.com
 umac-128@openssh.com
 hmac-sha1-etm@openssh.com
 hmac-sha1-96-etm@openssh.com
 hmac-sha2-256-etm@openssh.com
 hmac-sha2-512-etm@openssh.com
 hmac-md5-etm@openssh.com
 hmac-md5-96-etm@openssh.com
 hmac-ripemd160-etm@openssh.com
 umac-64-etm@openssh.com
 umac-128-etm@openssh.com
 hmac-gost2012-256-etm (34.11-2012)

(Ciphers) (MACs), , ():

Ciphers grasshopper-ctr,aes128-ctr,aes192-ctr,aes256-ctr,arcfour256,arcfour128,aes128-cbc,3des-cbc
 # MACs hmac-gost2012-256-etm,hmac-md5,hmac-sha1,umac-64@openssh.com,hmac-ripemd160

/etc/ssh/ssh_config, /etc/ssh/sshd_config.

, , , .

, , , /etc/ssh/ssh_config :

Ciphers aes128-ctr,aes192-ctr,aes256-ctr,arcfour256,arcfour128,aes128-cbc,3des-cbc,grasshopper-ctr
 MACs hmac-md5,hmac-sha1,umac-64@openssh.com,hmac-ripemd160,hmac-gost2012-256-etm

ssh

SSHFS (Secure Shell FileSystem) - , .

SSHFS SSH File Transfer Protocol (SFTP) — , Secure Shell.

, , SSH.

Astra Linux sshfs , :

```
sudo apt install sshfs
```

(.).

:

```
sshfs -o allow_other,IdentityFile=~local_user/.ssh/id_rsa
remote_user@server:/home/remote_user /mnt
```

:

- **-o** `-o`, `-o` `/`;
- **allow_other** `-o allow_other` `(`);
- **IdentityFile** `-o IdentityFile=~local_user/.ssh/id_rsa -o (, - )`;
- **remote_user@server:/home/remote_user** `-o remote_user@server:/home/remote_user -o , ;`;
- `( server remote_user /home/remote_user)`
- **/mnt** `-o /mnt`

/etc/fstab:



```
sshfs#remote_user@server:/home/remote_user/ /mnt fuse defaults,allow_other,IdentityFile=~local_user/.ssh/id_rsa 0 0
```

(.).

umount :

```
umount /mnt
```

:

```
fusermount -u /mnt
```

ssh, Astra Linux, ,
libgost-astra.

:

/etc/ssh/sshd_config SyslogFacility LogLevel, INFO DEBUG



```
# Logging
SyslogFacility AUTH
LogLevel INFO
LogLevel DEBUG
```

:

```
systemctl restart ssh
```

ssh /var/log/auth.log, , , :

```
tail -f | grep cipher /var/log/auth.log
```

:

-v :

```
ssh -v ServerSSH
```

, :



debug1: kex: server->client cipher: grasshopper-ctr MAC: hmac-gost2012-256-etm compression: none
debug1: kex: client->server cipher: grasshopper-ctr MAC: hmac-gost2012-256-etm compression: none