

# SSH, Telnet

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## ip ftp client password

FTP.

(no) .

```
ip ftp client password { <CLEAR-TEXT> | encrypted <ENCRYPTED-TEXT> }
```

```
[no] ftp client password
```

<CLEAR-TEXT> – , [1 .. 16] , [0-9a-fA-F];

<ENCRYPTED-TEXT> – , [2..32] .

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CONFIG

```
esr(config)# ip ftp client password test
```

## ip ftp client username

FTP.

(no) .

```
ip ftp client username <NAME>
```

```
no ftp client username
```

<NAME> – , 31.

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CONFIG

```
esr(config)# ip ftp client username test
```

## ip ftp source-ip

, FTP-.

(no) .

```
ip ftp source-ip <ADDR>
```

```
[no] ip ftp source-ip
```

<ADDR> – IP-, AAA.BBB.CCC.DDD, [0..255]

IP-, FTP-.

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CONFIG

```
esr(config)# ip ftp source-ip 192.168.1.57
```

## ip sftp client password

SFTP.

(no) SFTP.

```
ip sftp client password { <TEXT> | encrypted < ENCRYPTED-TEXT > }
```

```
no ip sftp client password
```

<TEXT> – [1..16] ASCII-;

<ENCRYPTED-TEXT> – , [8..16] , [16..32]

.

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CONFIG

```
esr(config)# ip sftp client password 123456789
```

## ip sftp client username

SFTP.

(no) SFTP.

```
ip sftp client username <USERNAME>
```

```
no ip sftp client username
```

<USERNAME> – , 31.

.

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CONFIG

```
esr(config)# ip sftp client username esruser
```

## ip ssh authentication algorithm disable

SSH.

(no) SSH.

```
[no] ip ssh authentication algorithm <ALGORITHM> disable
```

<ALGORITHM> – , [md5, md5-96, sha1, sha1-96, sha2-256, sha2-512, ripemd160].

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.

## CONFIG

```
esr(config)# no ip ssh authentication algorithm md5 disable
```

### ip ssh authentication retries

SSH-.

(no) SSH- .

ip ssh authentication retries <NUM>

no ip ssh authentication retries

<NUM> – SSH- [1..10].

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## CONFIG

```
esr(config)# ip ssh authentication retries 5
```

### ip ssh authentication timeout

, ssh- , SSH-.

(no) SSH- .

ip ssh authentication timeout <SEC>

no ip ssh authentication timeout

<SEC> – , [30..360].

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## CONFIG

```
esr(config)# ip ssh authentication timeout 60
```

## ip ssh client password

SCP.

(no) .

```
ip ssh client password { <CLEAR-TEXT> | encrypted <ENCRYPTED-TEXT> }  
no ssh client password
```

<CLEAR-TEXT> – , [1..16], [0-9a-fA-F];

<ENCRYPTED-TEXT> – , [2..32].

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CONFIG

```
esr(config)# ip ssh client password test132
```

## ip ssh client source-ip

IP- , SSH- .

(no) .

```
ip ssh client source-ip <ADDR>  
no ssh client source-ip
```

<ADDR> – IP- , AAA.BBB.CCC.DDD, [0..255]. IP- -/.

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CONFIG

```
esr(config)# ip ssh client source-ip 192.168.22.78
```

## ip ssh client username

SCP.

(no) .

```
ip ssh client username <NAME>
no ssh client username
```

<NAME> – , 31.

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CONFIG

```
esr(config)# ip ssh client username tester
```

## ip ssh dscp

DSCP IP- SSH-.

(no) DSCP .

```
ip ssh dscp <DSCP>
no ip ssh dscp
```

<DSCP> – DSCP, [0..63].

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CONFIG

```
esr(config)# ip ssh dscp 40
```

## ip ssh encryption algorithm disable

SSH-.

(no) SSH-.

```
[no] ip ssh encryption algorithm <ALGORITHM> disable
```

<ALGORITHM> – , [aes128, aes192, aes256, aes128ctr, aes192ctr, aes256ctr, arcfour, arcfour128, arcfour256, blowfish, cast128, 3des].

.

## CONFIG

```
esr(config)# ip ssh encryption algorithm aes128 disable
```

**ip ssh host-key algorithm**

Host-Key SSH-.

(no) Host-Key SSH-.

```
[no] ip ssh host-key algorithm <ALGORITHM> disable
```

<ALGORITHM> – , [dsa, ecdsa256, ecdsa384, ecdsa521, ed25519, rsa ].

.

## CONFIG

```
esr(config)# ip ssh host-key algorithm dsa disable
```

**ip ssh key-exchange algorithm disable**

SSH-.

(no) SSH-.

```
[no] ip ssh key-exchange algorithm <ALGORITHM> disable
```

<ALGORITHM> – , [dh-group1-sha1, dh-group14-sha1, dh-group-exchange-sha1, dh-group-exchange-sha256, ecdh-sha2-nistp256, ecdh-sha2-nistp384, ecdh-sha2-nistp521].

.

CONFIG

```
esr(config)# ip ssh key-exchange algorithm dh-group-exchange-sha1 disable
```

## ip ssh key-exchange time

SSH-.

(no) SSH- .

ip ssh key-exchange time <SEC>

no ip ssh key-exchange time

<SEC> – , [1..72].

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CONFIG

```
esr(config)# ip ssh key-exchange time 24
```

## ip ssh key-exchange volume

, SSH-.

(no) , SSH- .

ip ssh key-exchange volume <DATA>

no ip ssh key-exchange volume

<DATA> – , [1..4096].

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1000

CONFIG



```
esr(config)# ip ssh key-exchange volume 512
```

## ip ssh port

SSH- .

(no) .

```
ip ssh port <PORT>
```

```
no ip ssh port
```

<PORT> – , [1..65535].

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CONFIG

```
esr(config)# ip ssh port 3001
```

## ip ssh server

SSH- .

(no) SSH-.

```
[no] ip ssh server [ vrf <VRF>]
```

<VRF> – VRF, 31, SSH-.

SSH- .

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CONFIG

```
esr(config)# no ip ssh server
```

## ip telnet dscp

DSCP IP- Telnet-.

(no) DSCP .

```
ip telnet dscp <DSCP>
```

```
no ip telnet dscp
```

<DSCP> – DSCP, [0..63].

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CONFIG

```
esr(config)# ip telnet dscp 40
```

## ip telnet port

Telnet- .

(no) .

```
ip telnet port <PORT>
```

```
no ip telnet port
```

<PORT> – , [1..65535].

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CONFIG

```
esr(config)# ip telnet port 2001
```

## ip telnet server

Telnet- .

(no) Telnet-.

```
[no] ip telnet server [vrf <VRF>]
```

<VRF> – VRF, 31, Telnet.

Telnet.

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CONFIG

```
esr(config)# no ip telnet server
```

## show crypto key mypubkey

, SSH.

show crypto key mypubkey <OPTIONS>

<OPTIONS> – :

- dsa – DSA;
- ecdsa – ECDSA, 256, 384 521;
- ed25519 – ED25519;
- rsa – RSA;
- rsa1 – RSA1.

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ROOT

```
esr# show crypto key mypubkey rsa
Key data
-----
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDz750sWCQrnNufglyhuksTFYCYdEfg
JZ9tWUvcssAZhCJWMewprXBuZMABzFmfBg157pgapxn2qJXJ8ESMV7X7gPfy
xQQah6l376z3SFcpKvwudNgwHiS5HCYPRQWx2Xdaz/nJtYr5NpYgLPba68NC
iXcqEp7EPR5GojDVxpuDuk0hPFcihzmt5Yx8ZptJRzRtsuDQYlowv0Qa24kd
0lQ90/1qKfbAhB6XI60l+dK5VEj7giBESarcRn69/e/YVbdGBdTE93QWFPKI
bm63imfbxRwWtcwsFdIH8Blv9ZqDqqF/IO3TkIKa3lhV9GnsawlAXi/IdyY
bYPboHRdcTlH/ root@esr-1000
```

## update ssh-host-key

SSH.

```
update ssh-host-key { dsa | escda <ESCDA> | ed25519 <ED25519> | rsa <RSA> }
```

dsa – DSA;

ecdsa – ECDSA;

- <ECDSA> – , 256, 384 521;
- 521.

ed25519 – ED25519;

- <ED25519> – , [256..2048];
- , 2048.

rsa – RSA ;

- <RSA> – , [1024..2048];
- , 2048.

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ROOT

```
esr(config)# update ssh-host-key ecdsa
```