

# LXC

- [LXC- Astra Linux Special Edition .10015-01 \( 1.6\)](#)
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  - [LXC-](#)
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- [QEMU/KVM Astra Linux](#)
- [Docker Astra Linux Special Edition .10015-01 1.7](#)
- [FireJail](#)



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- Astra Linux Special Edition .10015-01 ( 1.7), .10015-10
- Astra Linux Special Edition .10015-17
- Astra Linux Special Edition .10015-37 ( 7.7)
- Astra Linux Special Edition .10015-03 ( 7.6)
- Astra Linux Special Edition .10152-02 ( 4.7)
- Astra Linux Special Edition .10015-01 ( 1.6) ( lxc-astra 1.0.0+ci10)
- Astra Linux Special Edition .10015-16 . 1
- Astra Linux Special Edition .10015-16 . 2
- Astra Linux Special Edition .10265-01 ( 8.1)
- Astra Linux Common Edition 2.12.33 ( lxc-astra 1.0.0+ci10)

LXC — .

- LXC , ;
- LXC ;
- LXC cgroups, ;

, root- LXC- ( , uid 0 uid 0 ) ( LXC 1.0) « », uid 0 , .

**cgroups (control group)** — , (,, , -) .  
 , .

cgroups ,  
(,, nice),  
LXC.

cgroups :

- (resource limiting): , ;
- : -;
- : ;
- : , , ;
- : (freezing) , (checkpointing) .

## LXC- Astra Linux Special Edition .10015-01 ( 1.6)



LXC Astra Linux Special Edition

LXC (. [synaptic](#)) :

```
sudo apt install lxc lxc-astra
```

lxc-astra 1.0.0.



lxc : /usr/share/lxc/templates/.

LXC-



/etc/apt/sources.list: () () , ( ) /etc/apt/sources.list . Astra Linux Special Edition , lxc, ( ).

1. /etc/default/lxc-net :

```
USE_LXC_BRIDGE="true"
LXC_BRIDGE="lxcbr0"
LXC_ADDR="10.0.3.1"
LXC_NETMASK="255.255.255.0"
LXC_NETWORK="10.0.3.0/24"
LXC_DHCP_RANGE="10.0.3.2,10.0.3.254"
LXC_DHCP_MAX="253"
LXC_DHCP_CONFILE=""
LXC_DOMAIN=""
```

2. /etc/lxc/default.conf :

```
lxc.net.0.type = empty
```

:

```
lxc.net.0.type = veth
lxc.net.0.link = lxcbr0
lxc.net.0.flags = up
```

3. lxc-net:

```
sudo systemctl restart lxc-net
```

4. :



-, - Astra Linux Special Edition (x.7 1.6) astralinux-se, Astra Linux Common Edition – astralinux-ce. , -, /etc/apt/sources.list.

```
# Astra Linux Specail Edition:
sudo lxc-create -t astralinux-se -n container-1

# Astra Linux Common Edition:
sudo lxc-create -t astralinux-ce -n container-1
```

container-1, -n;

5. Astra Linux Special Edition /parsecfs. ( /var/lib/lxc/<\_>/config) ( -):

```
echo "lxc.mount.entry = /parsecfs parsecfs none bind 0 0" | sudo tee -a
/var/lib/lxc/container-1/config
```

6. :

```
sudo lxc-start -n container-1
```

7. , , .. :

```
sudo lxc-info -n container-1 -iH
```

IP-.

8. , ( - admin - , , - astralinux):

```
ssh -l admin `sudo lxc-info -n container-1 -iH`
```

## LXC-

1. :

```
sudo lxc-start -n <_>
```

2. :

```
sudo lxc-stop -n <_>
```

3. :

```
sudo lxc-ls -f
```

4. :

```
ssh -l admin 10.10.10.100
```

( , ssh- ). — astralinux.



: admin.

5. :

```
sudo lxc-destroy -n <_>
```

6. , Astra Linux Common Edition :

```
sudo lxc-console -n <_>
```

7. ping (, ICMP). ping :

a. :

```
id
```

```
uid=1000(admin) gid=1001(astra-admin) groups=1001(astra-admin),27  
(sudo),333(astra-console)
```

b. ( - astra-admin 1001) ICMP:

```
sudo sysctl -w net.ipv4.ping_group_range="1001 1001"
```

```
net.ipv4.ping_group_range = 1001 1001
```

ICMP :

```
sudo sysctl -w net.ipv4.ping_group_range="0 2147483647"  
net.ipv4.ping_group_range = 0 2147483647
```

8. LXC- Astra Linux Special Edition:

a. :

```
sudo lxc-stop -n container-1
```

b. /parsecfs/unsecure\_setxattr:

```
echo 1 | sudo tee /parsecfs/unsecure_setxattr
```

c. , PARSEC\_CAP\_UNSAFE\_SETXATTR:

```
sudo execaps -c 0x1000 -- lxc-snapshot -n <_>
```

d. /parsecfs/unsecure\_setxattr:

```
echo 0 | sudo tee /parsecfs/unsecure_setxattr
```

(lxc-snapshot -L, lxc-snapshot -r) /parsecfs/unsecure\_setxattr PARSEC\_CAP\_UNSAFE\_SETXATTR .

, ( ), , .