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 .

, ( ), , .