

Министерство цифрового развития, связи и массовых коммуникаций РФ
Федеральное государственное бюджетное образовательное учреждение
высшего образования
«Сибирский государственный университет телекоммуникаций и
информатики» (СибГУТИ)

Отчет по практической работе №5

«Адресация узлов в сетях. Статическая и динамическая конфигурация
узлов»

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1.

Виртуальные сети Сети NAT Облачные сети

Имя	IPv4 префикс	IPv6 префикс	DHCP сервер
VirtualBox Host-Only Ethernet Adapter	192.168.14.1/24		Включен

Файл Машина Справка

Инструменты

Создать Добавить Настроить Сбросить Запустить

▼ Роутеры

mt-01 Выключена

▼ Машины

AstraLinux Выключена

AltServer Выключена

Общие

Имя: mt-01
ОС: Other Linux (64-bit)
Группы: Роутеры

Система

Оперативная память: 512 МБ
Порядок загрузки: Гибкий диск, Оптический диск, Жесткий диск
Ускорение: Nested Paging, PAE/NX, Паравиртуализация KVM

Дисплей

Видеопамять: 16 МБ
Графический контроллер: VMSVGA
Сервер удаленного дисплея: Выключен
Записи: Выключена

Носители

Контроллер: IDE
Вторичное устройство IDE 0: [Оптический привод] Пусто
Контроллер: SATA
SATA порт 0: chr-7.16.2.vdi (С множественным подключением, 128,00 МБ)

Аудио

Аудиодрайвер: По умолчанию
Аудиоконтроллер: ICH AC97

Сеть

Адаптер 1: Intel PRO/1000 MT Desktop (Виртуальный адаптер, 'VirtualBox Host-Only Ethernet Adapter')

USB

2.

```
[admin@mt-01] > ip address print
Flags: D - DYNAMIC
Columns: ADDRESS, NETWORK, INTERFACE
# ADDRESS NETWORK INTERFACE
0 D 192.168.14.5/24 192.168.14.0 ether1
```

mt-01 - Настройки

Базовые Расширенные

Общие

Система

Дисплей

Носители

Аудио

Сеть

COM-порты

USB

Общие папки

Интерфейс

Сеть

Адаптер 1 Адаптер 2 Адаптер 3 Адаптер 4

☒ Включить сетевой адаптер

Тип подключения: Виртуальный адаптер

Имя: VirtualBox Host-Only Ethernet Adapter

Тип адаптера: Intel PRO/1000 MT Desktop (82540EM)

Неразборчивый режим: Запретить

MAC-адрес: 08002790702A

☒ Подключить кабель

COM-порты

Порт 1 Порт 2 Порт 3 Порт 4

☐ Включить последовательный порт

OK Отмена Справка

```
AstraLinux [Работаer] - Oracle VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка

d1orn@astra:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:c7:4b:5a brd ff:ff:ff:ff:ff:ff
    inet 192.168.14.3/24 brd 192.168.14.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fec7:4b5a/64 scope link
        valid_lft forever preferred_lft forever
d1orn@astra:~$ _
```

```
AltServer [Работаer] - Oracle VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка

d1orn@alt ~]$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:0c:8b:9b brd ff:ff:ff:ff:ff:ff
    inet 192.168.14.4/24 brd 192.168.14.255 scope global dynamic noprefixroute enp0s3
        valid_lft 591sec preferred_lft 516sec
    inet6 fe80::a00:27ff:fe0c:8b9b/64 scope link
        valid_lft forever preferred_lft forever
d1orn@alt ~]$ _
```

Примените фильтр отображения ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.14.1	224.0.0.251	MDNS	82	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
2	0.000213	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
3	0.001464	192.168.14.1	224.0.0.251	MDNS	82	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
4	0.001556	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
5	1.002054	192.168.14.1	224.0.0.251	MDNS	82	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
6	1.002288	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
7	1.004072	192.168.14.1	224.0.0.251	MDNS	82	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
8	1.004201	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
9	3.004514	192.168.14.1	224.0.0.251	MDNS	82	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
10	3.004864	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
11	3.006879	192.168.14.1	224.0.0.251	MDNS	82	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
12	3.007171	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102	Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
13	18.316710	fe80::a00:27ff:fec7:4b5a	ff02::1:ff50:fcd8	ICMPv6	86	Neighbor Solicitation for fe80::b86:c2a8:d150:fcd8 from 08:00:27:c7:4b:5a
14	18.316886	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	86	Neighbor Advertisement fe80::b86:c2a8:d150:fcd8 (sol, ovr) is at 0a:00:27:00:08
15	18.317384	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=1, hop limit=64 (reply in 16)
16	18.317486	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=1, hop limit=128 (request in 15)
17	19.317341	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=2, hop limit=64 (reply in 18)
18	19.317520	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=2, hop limit=128 (request in 17)
19	20.318248	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=3, hop limit=64 (reply in 20)
20	20.318450	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=3, hop limit=128 (request in 19)
21	21.329999	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=4, hop limit=64 (reply in 22)
22	21.330132	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=4, hop limit=128 (request in 21)
23	22.351427	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=5, hop limit=64 (reply in 24)
24	22.351620	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=5, hop limit=128 (request in 23)
25	22.966690	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	86	Neighbor Solicitation for fe80::a00:27ff:fec7:4b5a from 0a:00:27:00:08
26	22.967934	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	78	Neighbor Advertisement fe80::a00:27ff:fec7:4b5a (sol)
27	23.390046	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=6, hop limit=64 (reply in 28)
28	23.390270	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=6, hop limit=128 (request in 27)
29	24.392077	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=7, hop limit=64 (reply in 30)
30	24.392319	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=7, hop limit=128 (request in 29)
31	25.393934	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=8, hop limit=64 (reply in 32)
32	25.394169	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=8, hop limit=128 (request in 31)
33	26.395015	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=9, hop limit=64 (reply in 34)
34	26.395256	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=9, hop limit=128 (request in 33)
35	27.396770	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=10, hop limit=64 (reply in 36)
36	27.397057	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=10, hop limit=128 (request in 35)
37	28.403419	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=11, hop limit=64 (reply in 38)
38	28.403700	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=11, hop limit=128 (request in 37)
39	29.404739	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=12, hop limit=64 (reply in 40)
40	29.404971	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=12, hop limit=128 (request in 39)
41	30.407541	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=13, hop limit=64 (reply in 42)
42	30.407814	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=13, hop limit=128 (request in 41)
43	31.415089	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=14, hop limit=64 (reply in 44)
44	31.415334	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=14, hop limit=128 (request in 43)
45	32.415995	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=15, hop limit=64 (reply in 46)
46	32.416256	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=15, hop limit=128 (request in 45)
47	33.416813	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=16, hop limit=64 (reply in 48)
48	33.416989	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=16, hop limit=128 (request in 47)
49	34.439557	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d150:fcd8	ICMPv6	118	Echo (ping) request id=0x02cc, seq=17, hop limit=64 (reply in 50)
50	34.439783	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec7:4b5a	ICMPv6	118	Echo (ping) reply id=0x02cc, seq=17, hop limit=128 (request in 49)

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3. d1orn@astra:~\$ ip -6 neigh show
fe80::b86:c2a8:d150:fcd8 dev eth0 lladdr 0a:00:27:00:00:08 STALE
4. d1orn@astra:~\$ _

5.

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000			Ethernet	60	[Packet size limited during capture]
2	19.900227	::	ff02::16	ICMPv6	110	Multicast Listener Report Message v2
3	20.829792	::	ff02::16	ICMPv6	110	Multicast Listener Report Message v2
4	20.909360	::	ff02::1:ff90:702a	ICMPv6	86	Neighbor Solicitation for fe80::a00:27ff:fe90:702a
5	21.954656	fe80::a00:27ff:fe90:702a	ff02::16	ICMPv6	130	Multicast Listener Report Message v2
6	21.954991	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x50125ce1
7	21.962453	192.168.14.2	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x50125ce1
8	21.962939	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x50125ce1
9	21.965474	192.168.14.2	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x50125ce1
10	21.979653	fe80::a00:27ff:fe90:702a	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
11	22.039864	fe80::a00:27ff:fe90:702a	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
12	22.389710	fe80::a00:27ff:fe90:702a	ff02::16	ICMPv6	130	Multicast Listener Report Message v2
13	24.033573	fe80::a00:27ff:fe90:702a	ff02::1:ffc7:4b5a	ICMPv6	86	Neighbor Solicitation for fe80::a00:27ff:fec7:4b5a
14	34.034503	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=0, hop limit=64 (reply in 2)
15	34.034908	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=0, hop limit=64 (reply in 4)
16	34.035312	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=0, hop limit=64 (reply in 6)
17	35.037205	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=256, hop limit=64 (reply in 8)
18	35.038002	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=256, hop limit=64 (reply in 10)
19	36.044799	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=512, hop limit=64 (reply in 12)
20	36.045778	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=512, hop limit=64 (reply in 14)
21	37.047525	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=768, hop limit=64 (reply in 16)
22	37.048250	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=768, hop limit=64 (reply in 18)
23	38.050234	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1024, hop limit=64 (reply in 20)
24	38.051024	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1024, hop limit=64 (reply in 22)
25	39.053747	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1280, hop limit=64 (reply in 24)
26	39.054459	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1280, hop limit=64 (reply in 26)
27	39.272179	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	86	Neighbor Solicitation for fe80::a00:27ff:fec7:4b5a
28	39.272586	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1536, hop limit=64 (reply in 28)
29	40.048777	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1536, hop limit=64 (reply in 30)
30	40.049485	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1536, hop limit=64 (reply in 32)
31	41.054644	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1792, hop limit=64 (reply in 34)
32	41.055482	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1792, hop limit=64 (reply in 36)
33	42.057561	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2048, hop limit=64 (reply in 38)
34	42.058565	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2048, hop limit=64 (reply in 40)
35	43.061569	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2304, hop limit=64 (reply in 42)
36	43.062353	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2304, hop limit=64 (reply in 44)
37	44.064183	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2560, hop limit=64 (reply in 46)
38	44.064797	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2560, hop limit=64 (reply in 48)
39	45.066957	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2816, hop limit=64 (reply in 50)
40	45.067874	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2816, hop limit=64 (reply in 52)
41	46.069595	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=3072, hop limit=64 (reply in 54)
42	46.070631	fe80::a00:27ff:fec7:4b5a	fe80::a00:27ff:fec7:4b5a	ICMPv6	70	Echo (ping) request id=0xa100, seq=3072, hop limit=64 (reply in 56)
43	47.017804	fe80::a00:27ff:fec7:4b5a	ff02::1	MNDP	209	5678 + 5678 Len=147
44	47.018523	192.168.14.5	255.255.255.255	MNDP	189	5678 + 5678 Len=147
45	47.019698	PCSSystemtec_90:70:2a	CDP/VTP/DTP/PagP/U...	CDP	121	Device ID: mt-01 Port ID: ether1
46	47.020891	PCSSystemtec_90:70:2a	LLDP Multicast	LLDP	158	MA/08:00:27:90:70:2a II/ether1 121 SysN=mt-01

6.

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	fe80::a00:27ff:fe90:702a	fe80::b86:c2a8:d150:fcdb	ICMPv6	70	Echo (ping) request id=0xa300, seq=1792, hop limit=64 (reply in 2)
2	0.000124	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa300, seq=1792, hop limit=128 (request in 1)
3	1.001846	fe80::a00:27ff:fe90:702a	fe80::b86:c2a8:d150:fcdb	ICMPv6	70	Echo (ping) request id=0xa300, seq=2048, hop limit=64 (reply in 4)
4	1.001984	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa300, seq=2048, hop limit=128 (request in 3)
5	2.008746	fe80::a00:27ff:fe90:702a	fe80::b86:c2a8:d150:fcdb	ICMPv6	70	Echo (ping) request id=0xa300, seq=2304, hop limit=64 (reply in 6)
6	2.008937	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa300, seq=2304, hop limit=128 (request in 5)
7	3.011972	fe80::a00:27ff:fe90:702a	fe80::b86:c2a8:d150:fcdb	ICMPv6	70	Echo (ping) request id=0xa300, seq=2560, hop limit=64 (reply in 8)
8	3.012127	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa300, seq=2560, hop limit=128 (request in 7)
9	4.014261	fe80::a00:27ff:fe90:702a	fe80::b86:c2a8:d150:fcdb	ICMPv6	70	Echo (ping) request id=0xa300, seq=2816, hop limit=64 (reply in 10)
10	4.014411	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa300, seq=2816, hop limit=128 (request in 9)
11	5.018238	fe80::a00:27ff:fe90:702a	fe80::b86:c2a8:d150:fcdb	ICMPv6	70	Echo (ping) request id=0xa300, seq=3072, hop limit=64 (reply in 12)
12	5.018362	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa300, seq=3072, hop limit=128 (request in 11)
13	6.019903	fe80::a00:27ff:fe90:702a	fe80::b86:c2a8:d150:fcdb	ICMPv6	70	Echo (ping) request id=0xa300, seq=3328, hop limit=64 (reply in 14)
14	6.020030	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa300, seq=3328, hop limit=128 (request in 13)
5	2.139088	fe80::a00:27ff:fe0c:8b9b	fe80::b86:c2a8:d150:fcdb	ICMPv6	118	Echo (ping) request id=0x0002, seq=1, hop limit=64 (reply in 6)
6	2.139215	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe0c:8b9b	ICMPv6	118	Echo (ping) request id=0x0002, seq=1, hop limit=128 (request in 5)
7	3.155862	fe80::a00:27ff:fe0c:8b9b	fe80::b86:c2a8:d150:fcdb	ICMPv6	118	Echo (ping) request id=0x0002, seq=2, hop limit=64 (reply in 8)
8	3.156018	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe0c:8b9b	ICMPv6	118	Echo (ping) request id=0x0002, seq=2, hop limit=128 (request in 7)
9	4.179331	fe80::a00:27ff:fe0c:8b9b	fe80::b86:c2a8:d150:fcdb	ICMPv6	118	Echo (ping) request id=0x0002, seq=3, hop limit=64 (reply in 10)
10	4.179452	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe0c:8b9b	ICMPv6	118	Echo (ping) request id=0x0002, seq=3, hop limit=128 (request in 9)
11	5.180396	fe80::a00:27ff:fe0c:8b9b	fe80::b86:c2a8:d150:fcdb	ICMPv6	118	Echo (ping) request id=0x0002, seq=4, hop limit=64 (reply in 12)
12	5.180536	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe0c:8b9b	ICMPv6	118	Echo (ping) request id=0x0002, seq=4, hop limit=128 (request in 11)
13	6.181385	fe80::a00:27ff:fe0c:8b9b	fe80::b86:c2a8:d150:fcdb	ICMPv6	118	Echo (ping) request id=0x0002, seq=5, hop limit=64 (reply in 14)
14	6.181599	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe0c:8b9b	ICMPv6	118	Echo (ping) request id=0x0002, seq=5, hop limit=128 (request in 13)
15	7.187708	fe80::a00:27ff:fe0c:8b9b	fe80::b86:c2a8:d150:fcdb	ICMPv6	118	Echo (ping) request id=0x0002, seq=6, hop limit=64 (reply in 16)
16	7.187855	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe0c:8b9b	ICMPv6	118	Echo (ping) request id=0x0002, seq=6, hop limit=128 (request in 15)
17	8.211742	fe80::a00:27ff:fe0c:8b9b	fe80::b86:c2a8:d150:fcdb	ICMPv6	118	Echo (ping) request id=0x0002, seq=7, hop limit=64 (reply in 18)
18	8.211875	fe80::b86:c2a8:d150:fcdb	fe80::a00:27ff:fe0c:8b9b	ICMPv6	118	Echo (ping) request id=0x0002, seq=7, hop limit=128 (request in 17)

```

6. neighbor - fe80::b86:c2a8:d150:fcdb dev enp0s3 lladdr 0a:00:27:00:00:08 STALE
fd1orn@alt ~]$ ip -6 neighbor show
fd1orn@alt ~]$

```

17	57.422715	fe80::a00:27ff:fe90:702a	ff02::1:ff0c:8b9b	ICMPv6	86	Neighbor Solicitation for fe80::a00:27ff:fe0c:8b9b
18	57.424340	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	86	Neighbor Advertisement fe80::a00:27ff:fe0c:8b9b
19	57.424800	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=0, hop limit=64 (reply in 2)
20	57.425583	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=0, hop limit=64 (reply in 4)
21	58.427402	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=256, hop limit=64 (reply in 6)
22	58.428348	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=256, hop limit=64 (reply in 8)
23	59.425420	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=512, hop limit=64 (reply in 10)
24	59.426474	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=512, hop limit=64 (reply in 12)
25	60.428276	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=768, hop limit=64 (reply in 14)
26	60.429329	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=768, hop limit=64 (reply in 16)
27	61.421033	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=1024, hop limit=64 (reply in 18)
28	61.421772	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1024, hop limit=64 (reply in 20)
29	62.424262	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=1280, hop limit=64 (reply in 22)
30	62.424840	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1280, hop limit=64 (reply in 24)
31	62.905680	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	86	Neighbor Solicitation for fe80::a00:27ff:fe0c:8b9b
32	62.906045	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	78	Neighbor Advertisement fe80::a00:27ff:fe0c:8b9b
33	63.426979	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=1536, hop limit=64 (reply in 26)
34	63.427925	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1536, hop limit=64 (reply in 28)
35	64.429603	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=1792, hop limit=64 (reply in 30)
36	64.430354	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=1792, hop limit=64 (reply in 32)
37	65.432998	fe80::a00:27ff:fe90:702a	fe80::a00:27ff:fe0c:8b9b	ICMPv6	70	Echo (ping) request id=0xa100, seq=2048, hop limit=64 (reply in 34)
38	65.433843	fe80::a00:27ff:fe0c:8b9b	fe80::a00:27ff:fe90:702a	ICMPv6	70	Echo (ping) request id=0xa100, seq=2048, hop limit=64 (reply in 36)

7. fd00:2005:8:22::/64

```
[admin@mt-01] > ipv6 address add address=fd00:2005:8:22::1/64 advertise=yes
interface: ether1
[admin@mt-01] > ipv6 address print
Flags: D - DYNAMIC; G - GLOBAL, L - LINK-LOCAL
Columns: ADDRESS, INTERFACE, ADVERTISE
# ADDRESS INTERFACE ADVERTISE
0 D ::1/128 lo no
1 DL fe80::a00:27ff:fe90:702a/64 ether1 no
2 G fd00:2005:8:22::1/64 ether1 yes
[admin@mt-01] >
```

1	0.000000	192.168.14.1	224.0.0.251	MDNS	82 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
2	0.000668	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
3	0.002794	192.168.14.1	224.0.0.251	MDNS	82 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
4	0.002943	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
5	1.003620	192.168.14.1	224.0.0.251	MDNS	82 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
6	1.003939	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
7	1.005325	192.168.14.1	224.0.0.251	MDNS	82 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
8	1.005410	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
9	2.464222	fe80::a00:27ff:fe90:702a	ff02::16	ICMPv6	150 Multicast Listener Report Message v2
10	2.663663	::	ff02::1:ff00:1	ICMPv6	86 Neighbor Solicitation for fd00:2005:8:22::1
11	2.724301	fe80::a00:27ff:fe90:702a	ff02::16	ICMPv6	150 Multicast Listener Report Message v2
12	3.006708	192.168.14.1	224.0.0.251	MDNS	82 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
13	3.007050	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
14	3.008610	192.168.14.1	224.0.0.251	MDNS	82 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
15	3.008679	fe80::b86:c2a8:d150:fcd8	ff02::fb	MDNS	102 Standard query 0x0000 PTR _googlecast._tcp.local, "QM" question
16	14.509119	fe80::a00:27ff:fe90:702a	ff02::1	MNDP	229 5678 → 5678 Len=167
17	14.509451	192.168.14.5	255.255.255.255	MNDP	209 5678 → 5678 Len=167

No.	Time	Source	Destination	Protocol	Length	Info
17	41.475265	PCSSystemtec_90:70:2a	CDP/VTP/DTP/PagP/U...	CDP	121	Device ID: mt-01 Port ID: ether1
18	41.475747	PCSSystemtec_90:70:2a	LLDP Multicast	LLDP	184	MA/08:00:27:90:70:2a IN/ether1 121 Sys
19	45.121730	fe80::a00:27ff:fec7:4b5a	ff02::2	ICMPv6	70	Router Solicitation from 08:00:27:c7:4
20	61.250297	fe80::a00:27ff:fec7:4b5a	ff02::2	ICMPv6	70	Router Solicitation from 08:00:27:c7:4
21	64.862059	::	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
22	65.061881	::	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
23	71.474543	fe80::a00:27ff:fe90:702a	ff02::1	MNDP	229	5678 → 5678 Len=167
24	71.475162	192.168.14.5	255.255.255.255	MNDP	209	5678 → 5678 Len=167
25	71.476019	PCSSystemtec_90:70:2a	CDP/VTP/DTP/PagP/U...	CDP	121	Device ID: mt-01 Port ID: ether1
26	71.476860	PCSSystemtec_90:70:2a	LLDP Multicast	LLDP	184	MA/08:00:27:90:70:2a IN/ether1 121 Sys
27	80.883860	PCSSystemtec_c7:4b:5a	Broadcast	ARP	60	Who has 192.168.14.2? Tell 192.168.14.
28	80.884118	PCSSystemtec_b7:45:f9	PCSSystemtec_c7:4b...	ARP	60	192.168.14.2 is at 08:00:27:b7:45:f9
29	80.884242	192.168.14.3	192.168.14.2	DHCP	342	DHCP Release - Transaction ID 0xf825f
30	85.408098	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x385ca
31	85.408439	192.168.14.2	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x385ca
32	85.409326	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x385ca
33	85.410089	::	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
34	85.412565	192.168.14.2	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x385ca
35	85.457970	::	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
36	86.032108	::	ff02::1:ffc7:4b5a	ICMPv6	86	Neighbor Solicitation for fe80::a00:27
37	87.042790	fe80::a00:27ff:fec7:4b5a	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
38	87.043064	fe80::a00:27ff:fec7:4b5a	ff02::2	ICMPv6	70	Router Solicitation from 08:00:27:c7:4
39	87.491012	fe80::a00:27ff:fec7:4b5a	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
40	90.946547	fe80::a00:27ff:fec7:4b5a	ff02::2	ICMPv6	70	Router Solicitation from 08:00:27:c7:4
41	98.369724	fe80::a00:27ff:fec7:4b5a	ff02::2	ICMPv6	70	Router Solicitation from 08:00:27:c7:4
42	101.475622	fe80::a00:27ff:fe90:702a	ff02::1	MNDP	229	5678 → 5678 Len=167
43	101.476987	192.168.14.5	255.255.255.255	MNDP	209	5678 → 5678 Len=167
44	101.477350	PCSSystemtec_90:70:2a	CDP/VTP/DTP/PagP/U...	CDP	121	Device ID: mt-01 Port ID: ether1
45	101.477507	PCSSystemtec_90:70:2a	LLDP Multicast	LLDP	184	MA/08:00:27:90:70:2a IN/ether1 121 Sys
46	113.474130	fe80::a00:27ff:fec7:4b5a	ff02::2	ICMPv6	70	Router Solicitation from 08:00:27:c7:4
47	131.475264	fe80::a00:27ff:fe90:702a	ff02::1	MNDP	229	5678 → 5678 Len=167
48	131.475557	192.168.14.5	255.255.255.255	MNDP	209	5678 → 5678 Len=167
49	131.476333	PCSSystemtec_90:70:2a	CDP/VTP/DTP/PagP/U...	CDP	121	Device ID: mt-01 Port ID: ether1
50	131.477031	PCSSystemtec_90:70:2a	LLDP Multicast	LLDP	184	MA/08:00:27:90:70:2a IN/ether1 121 Sys
51	142.521254	fe80::a00:27ff:fec7:4b5a	ff02::2	ICMPv6	70	Router Solicitation from 08:00:27:c7:4
52	161.470143	fe80::a00:27ff:fe90:702a	ff02::1	MNDP	229	5678 → 5678 Len=167
53	161.470562	192.168.14.5	255.255.255.255	MNDP	209	5678 → 5678 Len=167
54	161.471068	PCSSystemtec_90:70:2a	CDP/VTP/DTP/PagP/U...	CDP	121	Device ID: mt-01 Port ID: ether1
55	161.472046	PCSSystemtec_90:70:2a	LLDP Multicast	LLDP	184	MA/08:00:27:90:70:2a IN/ether1 121 Sys
56	167.067091	fe80::a00:27ff:fec7:4b5a	ff02::1:ff50:fcd8	ICMPv6	86	Neighbor Solicitation for fe80::b86:c2
57	167.067321	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	86	Neighbor Advertisement fe80::b86:c2a8:
58	167.067894	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6	118	Echo (ping) request id=0x0318, seq=1, ho
59	167.068175	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	118	Echo (ping) reply id=0x0318, seq=1, ho
60	168.100848	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6	118	Echo (ping) request id=0x0318, seq=2, ho
61	168.101117	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	118	Echo (ping) reply id=0x0318, seq=2, ho
62	169.103058	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6	118	Echo (ping) request id=0x0318, seq=3, ho
63	169.103316	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	118	Echo (ping) reply id=0x0318, seq=3, ho
64	170.107196	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6	118	Echo (ping) request id=0x0318, seq=4, ho
65	170.107410	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	118	Echo (ping) reply id=0x0318, seq=4, ho
66	171.189336	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6	118	Echo (ping) request id=0x0318, seq=5, ho
67	171.189581	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	118	Echo (ping) reply id=0x0318, seq=5, ho
68	171.859606	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	86	Neighbor Solicitation for fe80::a00:27ff:
69	171.860255	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6	78	Neighbor Advertisement fe80::a00:27ff:
70	172.314258	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6	118	Echo (ping) request id=0x0318, seq=6, ho
71	172.314532	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	118	Echo (ping) reply id=0x0318, seq=6, ho
72	173.318488	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6	118	Echo (ping) request id=0x0318, seq=7, ho
73	173.318766	fe80::b86:c2a8:d150:fcd8	fe80::a00:27ff:fec...	ICMPv6	118	Echo (ping) reply id=0x0318, seq=7, ho

8.

9.

```
d1orn@astra:~$ sudo sysctl net.ipv6.conf.eth0.use_tempaddr=2
net.ipv6.conf.eth0.use_tempaddr = 2
d1orn@astra:~$ _
```

```
d1orn@astra:~$ ip -6 a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 state UNKNOWN qlen 1000
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 state UP qlen 1000
    inet6 fe80::a00:27ff:fec7:4b5a/64 scope link
        valid_lft forever preferred_lft forever
d1orn@astra:~$ _
```

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	fe80::a00:27ff:fec7:4b5a	ff02::1:ff50:cd8	ICMPv6		86 Neighbor Solicitation for fe80::b86:c2a8:d150:cd8 from 08:00:27:c7:4...
2	0.000229	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		86 Neighbor Advertisement fe80::b86:c2a8:d150:cd8 (sol, ovr) is at 0a:0...
3	0.001525	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0330, seq=1, hop limit=64 (reply in 4)
4	0.001648	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0330, seq=1, hop limit=128 (request in 3)
5	1.067165	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0330, seq=2, hop limit=64 (reply in 6)
6	1.067355	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0330, seq=2, hop limit=128 (request in 5)
7	2.156972	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0330, seq=3, hop limit=64 (reply in 8)
8	2.157255	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0330, seq=3, hop limit=128 (request in 7)
9	3.199564	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0330, seq=4, hop limit=64 (reply in 10)
10	3.199846	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0330, seq=4, hop limit=128 (request in 9)
11	4.211353	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0330, seq=5, hop limit=64 (reply in 11)
12	4.211519	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0330, seq=5, hop limit=128 (request in 11)
13	4.859745	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		86 Neighbor Solicitation for fe80::a00:27ff:fec7:4b5a from 0a:00:27:00:0...
14	4.860726	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		78 Neighbor Advertisement fe80::a00:27ff:fec7:4b5a (sol)
15	5.285947	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0330, seq=6, hop limit=64 (reply in 16)
16	5.286138	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0330, seq=6, hop limit=128 (request in 15)
1	0.000000	fe80::a00:27ff:fec7:4b5a	ff02::2	ICMPv6		70 Router Solicitation from 08:00:27:c7:4b:5a
2	3.250514	fe80::a00:27ff:fec7:4b5a	ff02::1:ff50:cd8	ICMPv6		86 Neighbor Solicitation for fe80::b86:c2a8:d150:cd8 from 08:00:27:c7:4...
3	3.250733	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		86 Neighbor Advertisement fe80::b86:c2a8:d150:cd8 (sol, ovr) is at 0a:0...
4	3.251374	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0397, seq=1, hop limit=64 (reply in 5)
5	3.251475	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0397, seq=1, hop limit=128 (request in 4)
6	4.252285	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0397, seq=2, hop limit=64 (reply in 7)
7	4.252406	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0397, seq=2, hop limit=128 (request in 6)
8	5.273020	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0397, seq=3, hop limit=64 (reply in 9)
9	5.273181	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0397, seq=3, hop limit=128 (request in 8)
10	6.296015	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0397, seq=4, hop limit=64 (reply in 11)
11	6.296152	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0397, seq=4, hop limit=128 (request in 10)
12	7.319922	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0397, seq=5, hop limit=64 (reply in 13)
13	7.320135	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0397, seq=5, hop limit=128 (request in 12)
14	8.161471	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		86 Neighbor Solicitation for fe80::a00:27ff:fec7:4b5a from 0a:00:27:00:0...
15	8.162705	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		78 Neighbor Advertisement fe80::a00:27ff:fec7:4b5a (sol)
16	8.343943	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0397, seq=6, hop limit=64 (reply in 17)
17	8.344084	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0397, seq=6, hop limit=128 (request in 16)
18	9.368187	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0397, seq=7, hop limit=64 (reply in 19)
19	9.368435	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0397, seq=7, hop limit=128 (request in 18)
20	10.369519	fe80::a00:27ff:fec7:4b5a	fe80::b86:c2a8:d15...	ICMPv6		118 Echo (ping) request id=0x0397, seq=8, hop limit=64 (reply in 21)
21	10.369649	fe80::b86:c2a8:d150:cd8	fe80::a00:27ff:fec...	ICMPv6		118 Echo (ping) reply id=0x0397, seq=8, hop limit=128 (request in 20)



AstraLinux [Работает] - Oracle VirtualBox

Файл Машина Вид Ввод Устройства Справка

```
d1orn@astra:~$ sudo ip -6 addr add fd00:2005:8:22::/64 dev eth0
d1orn@astra:~$ ip -6 a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 state UNKNOWN qlen 1000
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 state UP qlen 1000
    inet6 fd00:2005:8:22::/64 scope global
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fec7:4b5a/64 scope link
        valid_lft forever preferred_lft forever
d1orn@astra:~$ _
```

10.

```
[admin@mt-01] > ipv6 address print
Flags: D - DYNAMIC; G - GLOBAL, L - LINK-LOCAL
Columns: ADDRESS, INTERFACE, ADVERTISE
# ADDRESS INTERFACE ADVERTISE
0 D ::1/128 lo no
1 DL fe80::a00:27ff:fe90:702a/64 ether1 no
2 DG fd00:2005:8:22::100/128 ether1 no
[admin@mt-01] > _
```