????????? TZSP-??????????? ??? KICS for Networks 4.3 ?? Astra Linux 1.8

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????????? ????????? ????????? ? ????????? ????????? TZSP ?? ??????? **KICS for Networks 4.3** ??? ??????????? **Astra Linux 1.8**. ????????? ????????? TZSP-?????? ?? ????? ???????, ??????? ????????? TZSP ? ????????????? ????????? ?????? ?? ??????????? ????????? tap0, ??????? ????? ??????????? ? KICS for Networks ??? ????? ???????????.

??? ??????????? ??????????? ??????????? ?????????????? ?? ??????? ??????????? ??????? ??????? KICS for Networks. ? ????? ???-????????? KICS ????????? ?????? ??????? ????? ???????????, ??????????? ? ????????? tap0.

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[????? ??????????? ??????? ? ????????]

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Файл	Назначение
install_tzsp_astra2.sh	?????? ????????? ? ????????? systemd-???????
tzsp_to_pcap.pl	Perl-??????, ????????? ????????? TZSP ?? ?????? PCAP
tzsp2pcap.sh	???????? bash-??????: ?????? TZSP, ????????????? ? ????????????? ?? tap0

Файл	Назначение
tzsp2pcap.service	???? systemd ??? ??????????? ??????????
?????? *.deb	tcpreplay (??????????? ?? ????????), tcpdump ? ???????????

??????? ?????????

??? 1. ????????? ???????

?????????? ????? ? ?????????? .deb-?????? **? ????????? ???????**.

?????: ????? tcpreplay ?????? ???? ?????????? ?????? ?? ????????. ????????? ?????? (tcpdump ? ???????????) ??????????? ???????????? ?? ??????????? Astra Linux.

??? 2. ?????? ??????? tzsp2pcap.sh

???????? ???? tzsp2pcap.sh ? ??????? ????????? ????? ??????????????:

```
iface_src=ens32              # физический интерфейс, куда приходит TZSP-трафик
iface_dst=tap0               # виртуальный интерфейс (менять не рекомендуется)
```

???? TZSP ???????? ? ?????? ??????? tcpdump:

```
tcpdump -i $iface_src -w /dev/stdout 'udp and port 37001' | ...
```

???????? 37001 ?? ??????????? UDP-????, ?? ???????? ???????? TZSP ?? ????? ????? ???????.

??? 3. ?????? ???????????

????????? ??? ????? (install_tzsp_astra2.sh, tzsp_to_pcap.pl, tzsp2pcap.sh, tzsp2pcap.service) ? ???? ??????? ? ?????????:

```
chmod +x install_tzsp_astra2.sh
./install_tzsp_astra2.sh
```

?????? ???????? ????????? ????????:

1. ???????? ??????? tcpdump ? tcpreplay.
2. ????????? tzsp_to_pcap.pl ? /usr/bin/.
3. ????????? tzsp2pcap.sh ? /usr/bin/ ? ??????? 744.
4. ????????? tzsp2pcap.service ? /etc/systemd/system/.
5. ??????????? systemd, ??????? ?????????? ? ???????? ??????.
6. ??????? ?????? ? ????????? ???? ???????.

??? 4. ???????????? ????????

????? ???????? ????????? ???????????? ?????? ? ??????? ??????????:

sudo systemctl restart tzsp2pcap.service

sudo systemctl restart network-manager

??? ????????????? ??????? ????????????? ????????? ?????? ??????????? ??:

sudo reboot

??? 5. ????????? ????? ??????????? ? KICS for Networks

? ???-?????????? KICS for Networks:

1. ????????? ? ?????? ????????????.
2. ???????? ????? ????? ??????????.
3. ? ???????? ?????????? ??????? tap0.
4. ????????? ?????????.

?????????? ????????

Действие	Команда
??????	`sudo systemctl status tzsp2pcap.service`
???? ? ???????? ???????	`sudo journalctl -u tzsp2pcap.service -f`
??????	`sudo systemctl start tzsp2pcap.service`
?????????	`sudo systemctl stop tzsp2pcap.service`

Действие	Команда
??????????	`sudo systemctl restart tzsp2pcap.service`

?????????? ?????? ????? ?????????

Компонент	Путь
???????? ??????	`/usr/bin/tzsp2pcap.sh`
Perl-??????	`/usr/bin/tzsp_to_pcap.pl`
???? systemd	`/etc/systemd/system/tzsp2pcap.service`

Revision #1
Created 5 October 2026 15:53:52 by Alexey Panyukhin
Updated 5 October 2026 16:02:35 by Alexey Panyukhin