Балансировка UDP/TCP трафика (L3-L4) средствами службы Nginx

?????????, ??????????? ?? ?????? ????????, ???????? ??????????? ??????? pre-sales ?/??? community KUMA ? **НЕ** ???????? ??????????? ????????????? ???????.

??????????? ???????????? ?? ??????? ??????? ????????? ? ??????-??????? ?? ???????: ????????? ??????? ??????? ? ??????? nginx (kaspersky.com)

????? ????????? ???????????? ??????? ????? ???????????? KUMA:

1. ????????? nginx ?? ???????, ?????????????? ??? ????????? ??????? ??????? (?????????????? ????????? ???????, ?? ????? ????)

- ??????? ??? ????????? ? Oracle Linux 8.6:
  `$sudo dnf install nginx`
- ??????? ??? ????????? ? Ubuntu 20.4:
  `$sudo apt-get install nginx`
  ??? ????????? ?? sources, ????????? ??????? ? ????????? `-with-stream`:
  `$sudo ./configure -with-stream -without-http_rewrite_module -without-http_gzip_module`

2. ????????????? ???????????????? ???? nginx.conf, ??? ????? ????????? ??????? ?????? (????????\ip ??????\????) ??? ???? ??????.

```
{
	upstream back_FW_ASA {
	server 10.11.17.145:514;
	server 10.11.18.145:514;
	}
```

?

```
server {
		listen 514 udp;
		proxy_pass back_FW_ASA;
		proxy_bind $remote_addr transparent;
	}
```

??? ?????? ??????? ????? nginx ????? "?????????" ??? ??????????? ???????????? ???????????? ??????? ????? ???????, ???????? ???????? ???????? ?????\??? ??????????, ??????? ???????? ???. ??? ????????????? ????????????? TCP ??????? ? 16 ?????? udp.

```
user nginx;
worker_processes auto;
error_log /var/log/nginx/error.log;
pid /run/nginx.pid;
# Load dynamic modules. See /usr/share/doc/nginx/README.dynamic.
include /usr/share/nginx/modules/*.conf;
events {
    worker_connections 1024;
}
stream {
        upstream back_FW_ASA {
        server 10.11.17.145:514;
        server 10.11.18.145:514;
        }
        server {
                listen 514 udp;
                proxy_pass back_FW_ASA;
                proxy_bind $remote_addr transparent;
        }
}
```

3. ??????? ?????? ??????????? KUMA ? ????, ? ??????? ?? ??????\????? - 10.11.17.145:514 ? 10.11.18.145:514, ???????????? ???????? ????????? ????? ??????? ? ??????????? 50:50 (??? ??????????? ???? ???????????).

4. ?????? ????????????? ????? "????????????" 514 ???? ?? ???? IP ??????? ???????, ??? ??????? ?????????????????? ????? ???????????? ???????????? ?????? keepalived ?? ???? ????????. ????????? keepalived

Revision #8
Created 2023-12-05 17:31:31 UTC
Updated 2026-05-04 08:02:35 UTC by Anton