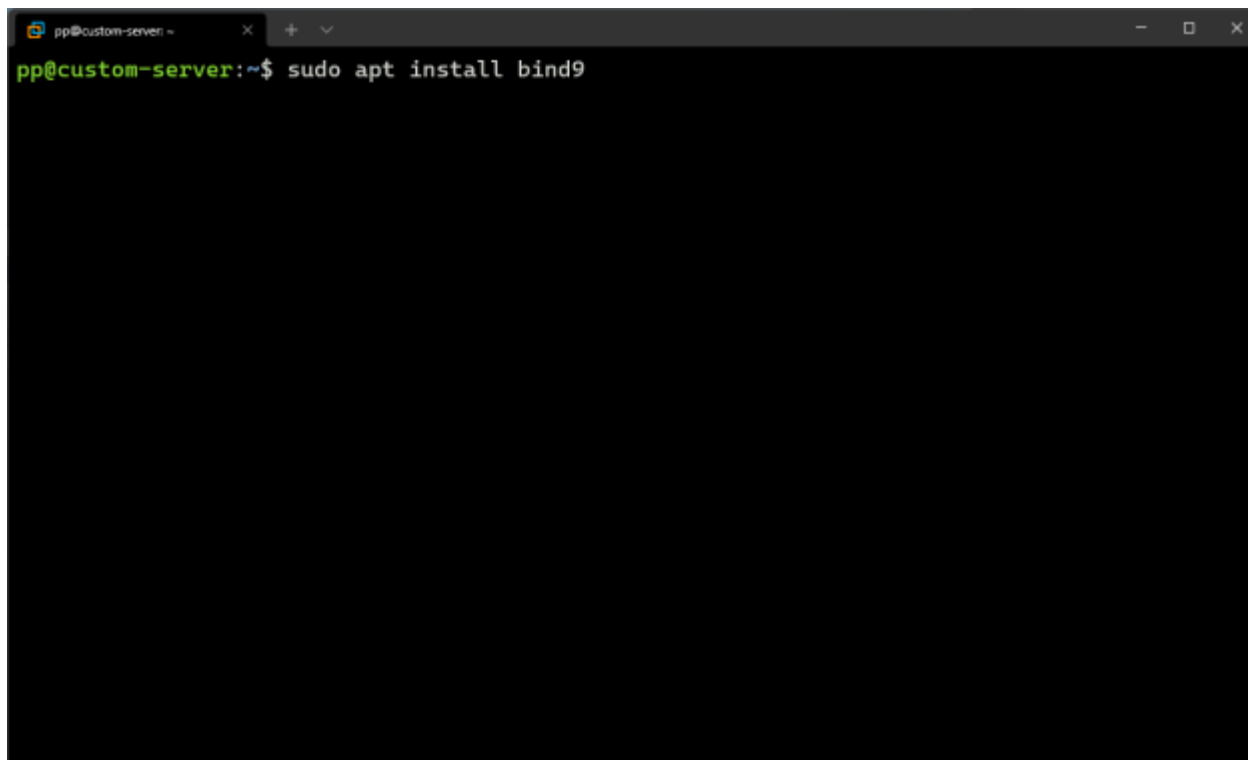


DNS

Spis treści

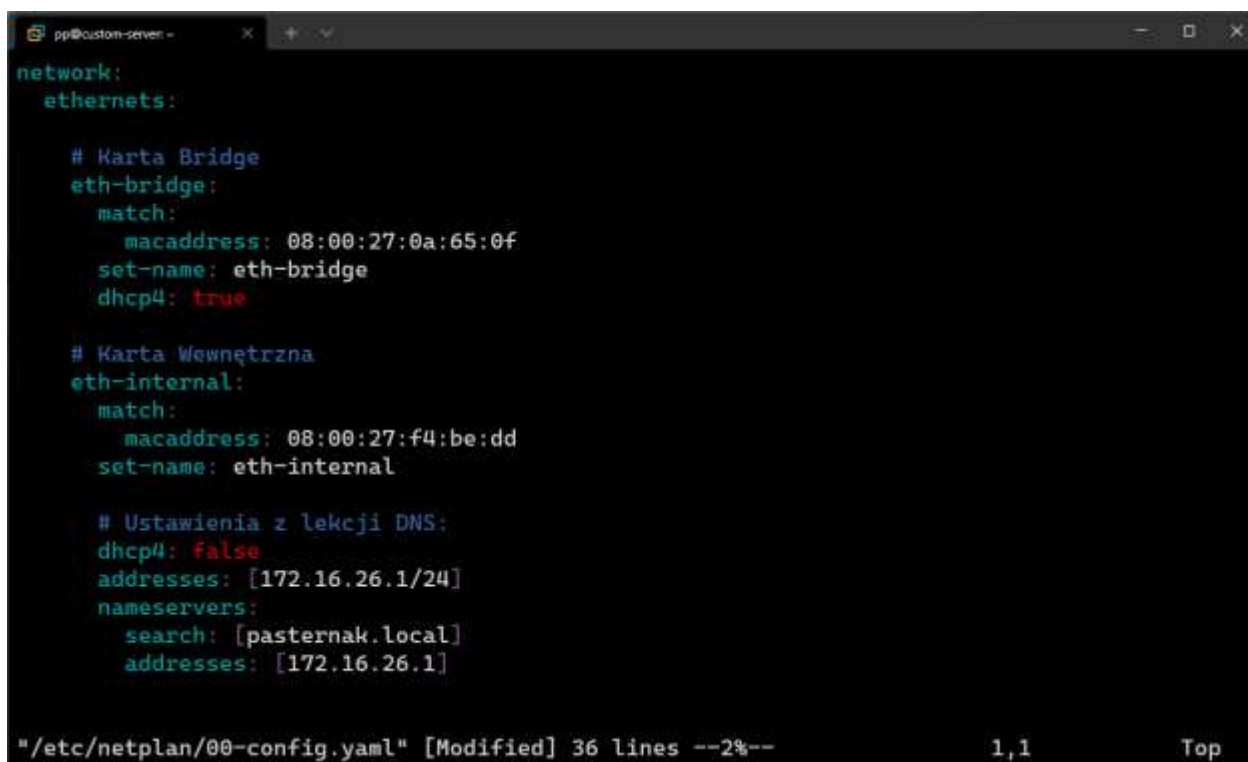
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1. Instalacja serwera DNS (t.j. bind9)



```
pp@custom-server:~$ sudo apt install bind9
```

2. Konfiguracja karty sieciowej



```
network:
  ethernets:

    # Karta Bridge
    eth-bridge:
      match:
        macaddress: 08:00:27:0a:65:0f
      set-name: eth-bridge
      dhcp4: true

    # Karta Wewnętrzna
    eth-internal:
      match:
        macaddress: 08:00:27:f4:be:dd
      set-name: eth-internal

    # Ustawienia z lekcji DNS:
    dhcp4: false
    addresses: [172.16.26.1/24]
    nameservers:
      search: [pasternak.local]
      addresses: [172.16.26.1]
```

"/etc/netplan/00-config.yaml" [Modified] 36 lines --2%-- 1,1 Top

3. Konfiguracja serwera DNS

```
pp@custom-server:/etc/bind$ ls
bind.keys  db.127  db.empty  named.conf      named.conf.local  rndc.key
db.0       db.255  db.local  named.conf.default-zones  named.conf.options  zones.rfc1918
pp@custom-server:/etc/bind$ sudo vim named.conf.local
```

```
pp@custom-server: /etc/bind
//
// Do any local configuration here
//

// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "pasternak.local" {
    type master;
    file "/etc/bind/pasternak.local";
};

1,1 All
```

```
pp@custom-server:/etc/bind$ named-checkconf named.conf.local
pp@custom-server:/etc/bind$ named-checkzone pasternak.local pasternak.local
zone pasternak.local/IN: loaded serial 2
OK
pp@custom-server:/etc/bind$
```

```
pp@custom-server:/etc/bind$ nslookup ns.pasternak.local
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   ns.pasternak.local
Address: 172.16.26.1

pp@custom-server:/etc/bind$ nslookup www.pasternak.local
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   www.pasternak.local
Address: 172.16.26.40

pp@custom-server:/etc/bind$ nslookup nie.istnieje.pasternak.local
Server:      127.0.0.53
Address:     127.0.0.53#53

** server can't find nie.istnieje.pasternak.local: NXDOMAIN

pp@custom-server:/etc/bind$ |
```

4. Konfiguracja reverse DNS

```
//
// Do any local configuration here
//

// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "pasternak.local" {
    type master;
    file "/etc/bind/pasternak.local";
};

zone "26.16.172.in-addr.arpa" IN {
    type master;
    file "/etc/bind/26.16.172.in-addr.arpa";
};

~
~
~
~
~
~
"named.conf.local" 17 lines --100%-- 17,2 All
```

```
pp@custom-server:/etc/bind$ nslookup 172.16.26.1
1.26.16.172.in-addr.arpa      name = ns.pasternak.local.

Authoritative answers can be found from:

pp@custom-server:/etc/bind$ nslookup 172.16.26.40
40.26.16.172.in-addr.arpa     name = www.pasternak.local.

Authoritative answers can be found from:

pp@custom-server:/etc/bind$ nslookup 172.16.26.50
50.26.16.172.in-addr.arpa     name = ftp.pasternak.local.

Authoritative answers can be found from:

pp@custom-server:/etc/bind$ nslookup 172.16.26.60
** server can't find 60.26.16.172.in-addr.arpa: NXDOMAIN

pp@custom-server:/etc/bind$ |
```