# CAPsMAN гостевая WiFi сеть

#### Алгоритм

- 1. Гостевой bridge
- 2. Адресация
- 3. DHCP сервер
- 4. CAPsMAN
- 5. IP Rules
- 6. IP Firewall Tasttrack
- 7. QoS для гостевой сети

| Bridge                           |   |                   |               |                 |           |
|----------------------------------|---|-------------------|---------------|-----------------|-----------|
| Bridge Ports Port Extensions VLA | Ns MSTIs Port MST   | Overrides Filters | NAT Hosts MDB |                 | P Radio   |
| 🕂 🗕 🖌 🗶 🗂 🍸 Set                  | ings  |                   |               | Find            |           |
| Name                             | L2 MTU  | Tx                | Rx            | Tx F 🔻          | Signal Up |
| ::: LAN                          | 1500  | 74.0 14           | 2.0           |                 | -55 07    |
| R & bridge Bridge                | 65535   | /4.9 Mbp<br>0 bp  | os 2.0        | 0 bps           | -58 01    |
|                                  |   |                   |               |                 |           |
|                                  | Interface <bridge-guest< td=""><td>&gt;</td><td></td><td></td><td></td></bridge-guest<> | >                 |               |                 |           |
|                                  | General STP VL/   | AN Status Traffic |               | (               | ок        |
|                                  | Name:   | bridge-guest      |               | Ca              | incel     |
|                                  | Type:   | Bridge            |               |                 | vlaa      |
|                                  | MTU:  |                   |               | ] •             |           |
|                                  | Actual MTU:   | 1500              |               | Dis             | sable     |
|                                  | L2 MTU:   | 65535             |               | Com             | nment     |
| •                                | MAC Address:  | C6:D3:69:14:31:32 |               | C               | ору       |
| 2 items out of 12 (1 selected)   | ARP:  | enabled           |               | ∓ Rer           | move      |
| A                                | ARP Timeout:  |                   |               | ] <b>▼</b>   To | orch      |
| -                                | Admin. MAC Address:   |                   |               | ] •             |           |
| -                                | Ageing Time:  | 00:05:00          |               |                 |           |
|                                  |   |                   |               |                 |           |
| _                                |   | GMP Snooping      |               |                 |           |
|                                  |   | DHCP Snooping     |               |                 |           |
|                                  |   | ✓ Fast Forward    |               |                 |           |
|                                  |   |                   |               |                 |           |
| en                               |   |                   |               |                 |           |
|                                  | enabled   |                   | running       | slave           |           |

#### Bridge -> New Bridge

### IP -> Addresses -> New Address

| Address List        |             | Address <10.0.0.1/24>   |         |
|---------------------|-------------|-------------------------|---------|
| <b>+ - * ×</b> 🗅 🍸  |             | Address: 10.0.0.1/24    | ОК      |
| Address /           | Network     | Network: 10.0.0.0       | Cancel  |
| + 10.0.0.1/24       | 10.0.0.0    | Interfaces bridge event |         |
| D 💠 94.158.83.27/24 | 94.158.83.0 | Interrace: bridge-guest | Apply   |
| ::: LAN             |             |                         |         |
| + 192.168.1.1/24    | 192.168.1.0 |                         | Disable |
|                     |             |                         | Comment |
|                     |             |                         | Сору    |
|                     |             |                         | Remove  |
|                     |             | enabled                 |         |

IP -> DHCP Server -> DHCP Server Setup

Создаем DHCP сервер для гостевой сети, но в настройках DNS лучше указать google (8.8.8.8; 8.8.4.4)

| DHCP Server   |             |  |                 |                                       |                 |          |
|---------------|-------------|--|-----------------|---------------------------------------|-----------------|----------|
| DHCP Networks | Leases Opt  | tions Option Sets  | Vendor Classes  | Alerts                                |                 |          |
| + - • ×       | T DHCF      | P Config DHCP S  | etup            |                                       |                 |          |
| Name          | △ Interface | Relay  | Leas            | e Time                                | Address Pool    | Add /    |
| dhcp-guest    | bridge-gues | st   |                 | 00:10:00                              | dhcp_pool_guest | no       |
| dncp-lan      | bndge       |  |                 | 08:00:00                              | dncp-pool-lan   | yes      |
|               |             | DHCP Server <dhcp< td=""><td>-guest&gt;</td><td></td><td>Ľ</td><td><u> </u></td></dhcp<> | -guest>         |                                       | Ľ               | <u> </u> |
|               |             | Generic Queues   | Script          |                                       | ОК              |          |
|               |             | Name:  | dhcp-guest      |                                       | Cancel          |          |
|               |             | Interface:   | bridge-guest    |                                       | Apply           |          |
|               |             | Relay:   |                 |                                       | ▼ Disable       |          |
|               |             | Lease Time:  | 00:10:00        |                                       |                 | =        |
|               |             | Bootp Lease Time:  | forever         | :                                     | ■ Copy          |          |
|               |             | Address Pool:  | dhcp_pool_guest | :                                     | ■ Remove        |          |
|               |             | DHCP Option Set:   |                 | · · · · · · · · · · · · · · · · · · · | •               |          |
|               |             | Src. Address:  |                 |                                       | •               |          |
|               |             | Delay Threshold:   |                 |                                       | •               |          |
|               |             | Authoritative:   | yes             |                                       | Ŧ               |          |
|               |             | Bootp Support:   | static          | :                                     | Ŧ               |          |
|               |             | Client MAC Limit:  |                 |                                       | •               |          |
|               |             | Use RADIUS:  | no              | :                                     | Ŧ               |          |
|               |             |  | Always Broadc   | ast                                   |                 |          |
|               |             |  | Add ARP For L   | eases                                 |                 |          |
|               |             |  | ✓ Use Framed As | s Classless                           |                 |          |
|               |             |  | Conflict Detect | ion                                   |                 |          |
|               | Ē           | enabled  |                 |                                       |                 |          |

Можно поставить галочку Add ARP For Leases, если нужен контроль этой сети.

Переходим в CAPsMAN. Создаем профиль гостевой сети

| CAPsMAN            |  |           |            |            |         |           |          |        |             |        |        |     |          |             |
|--------------------|--|-----------|------------|------------|---------|-----------|----------|--------|-------------|--------|--------|-----|----------|-------------|
| CAP Interface      | Pro  | visioning | Configure  | ations Ch  | nannels | Datapaths | Security | Cfg.   | Access List | Rates  | Remote | CAP | Radio    | Registratio |
| +                  | 7  |           |            |            |         |           |          |        |             |        |        |     |          |             |
| Name               | Δ.   | Authentic | ation Type | Encryption | 1       | Group End | ryption  | Group  | Key Update  | Passph | rase   | E   | AP Metho | ods         |
| security2G         |  | WPA2 PS   | SK         | aes ccm    |         | aes ccm   |          |        | 00:20:00    |        |        |     |          |             |
| security2G-guest   |  | WPA2 PS   | SK         | aes com    |         | aes com   |          |        |             |        |        |     |          |             |
| security5G         |  | WPA2 PS   | SK         | aes ccm    |         | aes ccm   |          |        | 00:20:00    |        |        |     |          |             |
|                    | CAPs Security Configuration <security2g-guest>       Image: Security2G-guest         Name:       Security2G-guest       OK         Authentication Type:       WPA PSK       WPA2 PSK       WPA2 EAP       Cancel         Encryption:       aes ccm       tkip       Apply</security2g-guest> |           |            |            |         |           |          |        |             |        |        |     |          |             |
| 3 items (1 selecte | tems (1 selected) Group Key Update:  |           |            |            |         |           |          | •<br>• | Con         | nment  |        |     |          |             |
|                    |  |           |            | Passphrase | e:      | •••       |          |        |             |        |        |     | C        | ору         |
|                    |  |           | Disa       | able PMKID | D:      |           |          |        |             |        |        | •   | Re       | move        |
|                    |  |           | E/         | P Methods  | s:      |           |          |        |             |        |        | \$  |          |             |

# Выбираем безопасность, если она нужна.

# Создаем гостевой Datapath

| CAPsMAN         |              |                |          |             |                    |                         |       |            |          |  |  |  |
|-----------------|--------------|----------------|----------|-------------|--------------------|-------------------------|-------|------------|----------|--|--|--|
| CAP Interface   | Provisioning | Configurations | Channe   | ls Datapa   | hs Security Cfg    | . Access List           | Rates | Remote CAP | Radio    |  |  |  |
| + - 2           | T            |                |          |             |                    |                         |       |            |          |  |  |  |
| Name            | △ Bridge     | Local For      | Client 1 | To VLAN     | Mo VLAN ID         |                         |       |            |          |  |  |  |
| datapath2G      | bridge       |                | yes      |             |                    |                         |       |            |          |  |  |  |
| datapath2G-gues | t bridge-gue | est            |          | CAPs Data   | path Configuratior | <pre>datapath2G-g</pre> | uest> |            |          |  |  |  |
| datapath5G      | bridge       |                | yes      |             |                    |                         |       | _          |          |  |  |  |
|                 |              |                |          |             | Name:              | datapath2G-gu           | est   | OK         |          |  |  |  |
|                 |              |                |          |             | MTU:               |                         | •     | Canc       | el       |  |  |  |
|                 |              |                |          |             | L2 MTU:            |                         | •     | -          |          |  |  |  |
|                 |              |                |          | Apply       |                    |                         |       |            |          |  |  |  |
|                 |              |                |          |             | ARP:               |                         |       |            |          |  |  |  |
|                 |              |                |          |             | Dridge:            | bridge guest            | -     | Comme      | ent      |  |  |  |
|                 |              |                |          |             | Didge.             | bhuge-guesi             |       | Сору       | <b>/</b> |  |  |  |
| 3 items         |              |                |          |             | Bridge Cost:       |                         |       | Berner     |          |  |  |  |
| <u> </u>        |              |                |          |             | Bridge Horizon:    |                         | •     | Nemo       | ve       |  |  |  |
|                 |              |                |          |             |                    |                         |       |            |          |  |  |  |
|                 |              |                |          | L           | ocal Forwarding:   |                         |       | •          |          |  |  |  |
|                 |              |                |          | Client To C | lient Forwarding:  |                         | •     | •          |          |  |  |  |
|                 |              |                |          |             | VLAN Mode:         |                         | •     | •          |          |  |  |  |
| 1               |              |                |          |             |                    |                         |       |            |          |  |  |  |

# Создаем конфигурацию

| CAPs Configuration <cfg< th=""><th>_2G-guest&gt;</th><th></th><th></th><th></th><th>CAPs Configuration <cfg_< th=""><th>_2G-guest&gt;</th><th></th><th></th><th></th></cfg_<></th></cfg<> | _2G-guest>                       |          |          |         | CAPs Configuration <cfg_< th=""><th>_2G-guest&gt;</th><th></th><th></th><th></th></cfg_<> | _2G-guest>     |          |    |         |
|---|----------------------------------|----------|----------|---------|---|----------------|----------|----|---------|
| Wireless Channel  | Rates Datapath                   | Security |          | OK      | Wireless Channel F  | Rates Datapath | Security |    | ОК      |
| Name:   | cfg_2G-guest                     |          |          | Cancel  | Channel:  | channel2G      | Ŧ        | •  | Cancel  |
| Mode:   | ар                               | •        | •        | Apply   | Frequency:  |                |          | \$ | Apply   |
| SSID:   | ASUS Guest                       |          | •        | Comment | Secondary Frequency:  |                |          | \$ | Comment |
| Hide SSID:  |                                  |          | •        | Сору    | Control Channel Width:  |                |          | -  | Сору    |
| Load Balancing Group:   |                                  |          | <b>_</b> | Remove  | Band:   |                |          | •  | Remove  |
| Distance:   |                                  |          | •        |         | Extension Channel:  |                |          | •  |         |
| Hw. Retries:  |                                  |          | •        |         | Tx Power:   |                |          | •  |         |
| Hw. Protection Mode:  |                                  |          | •        |         | Save Selected:  |                |          | •  |         |
| Frame Lifetime:   |                                  |          | •        |         | Reselect Interval:  |                |          | •  |         |
| Disconnect Timeout:   |                                  |          | •        |         | Skip DFS Channels:  |                |          | •  |         |
| Keepalive Frames:   |                                  |          | -        |         |   |                |          |    |         |
| Country:  | no_country_set                   | 1        | -        |         |   |                |          |    |         |
| Installation:   | any                              | •        | -        |         |   |                |          |    |         |
| Max Station Count:  |                                  |          | •        |         |   |                |          |    |         |
| Multicast Helper:   |                                  |          | ]•       |         |   |                |          |    |         |
| HT Tx Chains:   | <b>v</b> 0 <b>v</b> 1 <b>v</b> 2 | ✓ 3      | •        |         |   |                |          |    |         |
| HT Rx Chains:   | <b>v</b> 0 <b>v</b> 1 <b>v</b> 2 | ✓ 3      | •        |         |   |                |          |    |         |
| HT Guard Interval:  |                                  |          | •        |         |   |                |          |    |         |

| CAPs Configuration <cfg_2g-guest></cfg_2g-guest> |   |         |  |  |  |  |  |  |  |  |  |  |
|--|---|---------|--|--|--|--|--|--|--|--|--|--|
| Wireless Channel Rates Datapath Security         | OK Wireless Channel Rates Datapath Security | ОК      |  |  |  |  |  |  |  |  |  |  |
| Datapath: datapath2G-guest ∓                     | Cancel Security: security2G-guest           | Cancel  |  |  |  |  |  |  |  |  |  |  |
| MTU: 32  | Apply Authentication Type:                  | Apply   |  |  |  |  |  |  |  |  |  |  |
| L2 MTU:  | Comment Encryption:                         | Comment |  |  |  |  |  |  |  |  |  |  |
| ARP:   | Copy Group Encryption:                      | Сору    |  |  |  |  |  |  |  |  |  |  |
| Bridge:  | Group Key Update:                           | Remove  |  |  |  |  |  |  |  |  |  |  |
| Bridge Cost:                                     | Passphrase:                                 | ·   · · |  |  |  |  |  |  |  |  |  |  |
| Bridge Horizon:                                  | Disable PMKID:                              |         |  |  |  |  |  |  |  |  |  |  |
| Local Forwarding                                 | EAP Methods:                                |         |  |  |  |  |  |  |  |  |  |  |
| Client To Client Forwarding:                     | EAP Radius Accounting:                      |         |  |  |  |  |  |  |  |  |  |  |
|  | TLS Mode:                                   | ,       |  |  |  |  |  |  |  |  |  |  |
| VLAN Mode:                                       | TLS Certificate:                            |         |  |  |  |  |  |  |  |  |  |  |
| VLAN ID:   |   |         |  |  |  |  |  |  |  |  |  |  |
| Interface List:                                  |   |         |  |  |  |  |  |  |  |  |  |  |
|  |   |         |  |  |  |  |  |  |  |  |  |  |
|  |   |         |  |  |  |  |  |  |  |  |  |  |
|  |   |         |  |  |  |  |  |  |  |  |  |  |
|  |   |         |  |  |  |  |  |  |  |  |  |  |
|  |   |         |  |  |  |  |  |  |  |  |  |  |
|  |   |         |  |  |  |  |  |  |  |  |  |  |
|  |   |         |  |  |  |  |  |  |  |  |  |  |

Переходим на вкладку Provisioning и корректируем конфигурацию для 2G добавив slave конфигурацию

| CAPsMAN              |             |                 |           |           |               |               |             |                 |           |              |         |
|----------------------|-------------|-----------------|-----------|-----------|---------------|---------------|-------------|-----------------|-----------|--------------|---------|
| CAP Interface P      | rovisioning | Configurations  | Channels  | Datapaths | Security Cfg. | Access List   | Rates       | Remote CAP      | Radio     | Registration | Table   |
| + - <b>*</b> ×       | : 🗖 🍸       |                 |           |           |               |               |             |                 |           |              |         |
| # Radio MAC          | :           | Identity Regexp | Common Na | am Action | Master C      | onfigurati Sl | lave Config | juration        |           |              |         |
| 0 00:00:00:00        | 0:00:00     |                 |           | create d  | y cfg_5G      |               |             |                 | _         |              |         |
| 1 00:00:00           | 0.00.00     |                 |           | create d  | y cig_2a      |               |             |                 |           |              |         |
|                      |             |                 |           |           |               |               |             |                 |           |              |         |
|                      |             |                 |           |           | C             | APs Provision | ing <00:00  | :00:00:00:00>   |           |              |         |
|                      |             |                 |           |           |               | Ra            | adio MAC:   | 00:00:00:00:00  | ):00      |              | ОК      |
|                      |             |                 |           |           |               | Hw. Supporte  | ed Modes:   |                 |           | <b></b>      | Cancel  |
| 2 items (1 selected) |             |                 |           |           |               | Identity      | y Regexp:   |                 |           | [            | Apply   |
| Zitems (1 selected)  |             |                 |           |           | (             | Lommon Name   | e Regexp:   |                 |           |              | Disable |
|                      |             |                 |           |           |               | IF Address    | Action:     | create dynamic  | enabled   | <b>_</b>     | Comment |
|                      |             |                 |           |           |               | Master Con    | figuration  | cfa 2G          | , chabled |              | Сору    |
|                      |             |                 |           |           |               |               |             |                 |           |              | Pomovo  |
|                      |             |                 |           |           |               | Slave Con     | figuration: | cfg_2G-guest    |           | <b>₹ ₹</b>   | nemove  |
|                      |             |                 |           |           |               | Nam           | ne Format:  | prefix identity |           | ₹            |         |
|                      |             |                 |           |           |               | Na            | me Prefix:  | 2G              |           | <b></b>      |         |
|                      |             |                 |           |           |               |               |             |                 |           |              |         |
|                      |             |                 |           |           |               |               |             |                 |           |              |         |
|                      |             |                 |           |           | e             | nabled        |             |                 |           |              |         |

Далее в меню Remote CAP виделяем наши точки и нажимаем кнопку Provision

| CAPsMAN                        |              |           |        |          |              |               |             |         |             |         |          |            |   |
|--------------------------------|--------------|-----------|--------|----------|--------------|---------------|-------------|---------|-------------|---------|----------|------------|---|
| CAP Interface                  | Provisioning | Configura | ations | Channels | Datapaths    | Security Cfg. | Access List | Rates   | Remote CA   | P Radio | Registra | tion Table |   |
| Provision Upgrade Set Identity |              |           |        |          |              |               |             |         |             |         |          |            |   |
| Address                        | A Name       |           | Board  | 1        | Serial       | Version       | Identity    | Base M  | AC          | State   |          | Radios     |   |
| 127.0.0.1                      | [DC:2        | C:6E:E    | RBD53  | iG-5H I  | F34E0FA001EF | 6.49.6        | ASUS        | DC:2C:  | 6E:EC:01:B3 | Run     |          |            | 2 |
| 2C:C8:1B:25:FE:                | D3 [2C:C     | 8:1B:25:  | RB941  | -2nD I   | D1130EE49B   | 6.49.6        | Divan       | 2C:C8:1 | IB:25:FE:D3 | Run     |          |            | 1 |
|                                | 0            |           |        |          |              |               |             |         |             |         |          |            |   |
| 2 items (2 selecte             | ed)          |           |        |          |              |               |             |         |             |         |          |            |   |

В меню CAP Interface появится наш гостевой интерфейс как sub интерфейс основной точки. Это же видно и в меню WiFi Intefaces

| Wireless <sup>-</sup> | Table | es    |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
|-----------------------|-------|-------|-------|--------|-------|-------|-------------|--------|-------|-------|-------|-------|--------|-------|-------|-------|------|--------|--------|---------|----------|----------|
| WiFi Inte             | erfac | es    | W60   | )G Sta | tion  | Ns    | treme       | Dual   | Ac    | cess  | List  | Re    | egistr | ation | Co    | nnect | List | Sec    | curity | Profile | s        | Channel  |
| <b>+</b> -            | -     | 1     | 23    | 4:0    | 7     |       | CAP         | W      | PS C  | lient | S     | etup  | Rep    | eater | S     | canne | er   | Freq   | l. Usa | ge      | Alignmer |          |
|                       | Nam   | е     |       | A      | Туре  | •     |             |        |       | Actua | и МТ  | ΓU    | Тх     |       |       |       |      | Rx     |        |         |          | Tx       |
| mar                   | nage  | d by  | CAPs  | MAN    |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
| cha                   | nnel  | : 24  | 62/20 | -eC/g  | n(15d | Bm),  | , SSID      | ): ASL | JS, C | :APsN | IAN   | forw  | ardin  | g     |       |       |      |        |        |         |          |          |
| XS                    | 60 w  | lan 1 |       |        | Wire  | ess   | (IPQ4       | 019)   |       |       | 1     | 500   |        |       |       | 0     | bps  |        |        |         | 0        | bps      |
| mar                   | nage  | d by  | CAPs  | MAN    |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
| SSI                   | D: A  | SUS   | Gues  | st, CA | PsMA  | N fo  | rwardi      | ing    |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
| DX                    | <     | •> wl | an3   |        | Virtu | al    |             |        |       |       | 1     | 500   |        |       |       | 0     | bps  |        |        |         | 0        | bps      |
| mar                   | nage  | d by  | CAPs  | MAN    |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
| cha                   | nnel  | : 52  | 80/20 | -eeCe  | /ac/l | DP(1  | 4dBm        | ), SSI | D: A  | SUS-  | 5G, C | CAPs  | MAN    | forw  | ardin | g     |      |        |        |         |          |          |
| XS                    | 00 w  | lan2  |       |        | Wire  | ess   | (IPQ4       | 019)   |       |       | 1     | 500   |        |       |       | 0     | bps  |        |        |         | 0        | bps      |
| CAPsMA                | N     |       |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
| CAP Int               | erfac | e     | Provi | sionin | g C   | onfig | guratio     | ons    | Char  | nnels | Da    | atapa | aths   | Sec   | urity | Cfg.  | Ac   | cess l | ist    | Rates   | F        | Remote ( |
| + -                   | ] [<  | /     | 8     | e==    | 7     | R     | lesele      | ct Cha | annel | I     | lana  | iger  | A      | AA    |       |       |      |        |        |         |          |          |
|                       |       | Nam   | ne .  |        |       | Type  |             |        |       |       | Actu  | al M' | ти     | 12 M  | ти    | Тх    |      |        |        | F       | 8x       |          |
| DRSMB                 |       | 64 2  | G-AS  | US-1   |       | CAP   | -<br>Interf | ace    |       |       |       | -     | 1500   |       | 1600  | 10    |      |        | 7.9k   | bos .   |          |          |
| DSB                   |       |       | 1 2G  | ASU    | S     | CAP   | Interf      | ace    |       |       |       |       | 32     |       | 1600  |       |      |        | 0      | bos     |          |          |
| DRSMB                 |       | 68 2  | G-Div | an-1   |       | CAP   | Interf      | ace    |       |       |       |       | 1500   |       | 1600  |       |      | 35     | 54.4 k | bps     |          |          |
| DSB                   |       |       | 👌 2G- | -Divar | 1-1-1 | CAP   | Interf      | ace    |       |       |       |       | 32     |       | 1600  |       |      |        | 0      | bps     |          |          |
| DRSMB                 |       | 69 5  | G-AS  | US-1   |       | CAP   | Interf      | ace    |       |       |       | 1     | 1500   |       | 1600  |       |      |        | 7.9 k  | bps     |          |          |
|                       |       |       |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
|                       |       |       |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
|                       |       |       |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
|                       |       |       |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
|                       |       |       |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
| •                     |       |       |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |
| 5 items o             | ut of | 15    |       |        |       |       |             |        |       |       |       |       |        |       |       |       |      |        |        |         |          |          |

Запретим этим сетям общаться между собой.

IP -> Route -> Rules

Создаем два правила с Action drop

| Route Lis | st                        |                |            |      |           |        |
|-----------|---------------------------|----------------|------------|------|-----------|--------|
| Routes    | Nexthops Rules            | VRF            |            |      |           |        |
| + -       | <ul> <li>×&lt;</li> </ul> | 7              |            |      |           |        |
| #         | Src. Address              | Dst. Address   | Routing    | Mark | Interface | Action |
| 0         | 10.0.0/24                 | 192.168.1.0/24 |            |      |           | drop   |
| 1         | ▶ 192.168.1.0/24          | 10.0.0/24      |            |      |           | drop   |
|           | Policy Routing Rule       | <u>ہ</u>       |            |      |           |        |
|           | Src. Address: 192.        | 168.1.0/24     | • [        |      | ОК        |        |
|           | Dst. Address: 10.0        | .0.0/24        | <b>^</b> [ | С    | ancel     |        |
|           | Routing Mark:             |                |            | 1    | pply      |        |
|           | Interface:                |                |            | D    | isable    |        |
|           | Action: drop              |                | Ŧ          | Co   | mment     |        |
|           | Table:                    |                | <b>.</b>   | (    | Сору      |        |
|           |                           |                |            | Re   | emove     |        |
| 2 items ( | enabled                   |                |            |      |           |        |
|           |                           |                |            |      |           |        |
| Policy Ro | uting Rule <>             |                |            |      | 3         |        |
| Src. Add  | dress: 10.0.0/24          | <b>▲</b> [     | OK         |      |           |        |
| Dst. Add  | dress: 192.168.1.0/24     | •▲ [           | Cano       | el   |           |        |
| Routing   | Mark:                     | ▼ 「            | Apply      | /    | i I       |        |
| Inter     | face:                     |                | Disab      | le   |           |        |
| A         | ction: drop               | <b></b>        | Comme      | ant  |           |        |
| ٦         | Table:                    | ₹              | Carrie     |      |           |        |
|           |                           |                | Сору       |      |           |        |
|           |                           | L              | Remo       | ve   |           |        |
| enabled   |                           |                |            |      |           |        |

Следующий шаг — ограничим скорость гостевой сети. Для этого нужно изменить правило firewall fasttrack

и настроить очереди.

IP -> Firewall

| ;;; defconf: accept out ipsec policy                | Firewall Rule <192.168.1.0/24>           |                    |
|---|--|--------------------|
| 37  accept forward                                  | Consul Al                                |                    |
| ;;; defconf: fasttrack                              | General Advanced Extra Action Statistics | OK                 |
| 38  fasttrack connection forward                    | Chain: Forward                           | Canaal             |
| ;;; defconf: accept established, related, untracked |  | Cancer             |
| 39  accept forward                                  | Src. Address: 192.168.1.0/24             | Apply              |
| ;;; defconf: drop invalid                           |  |                    |
| 40 🗱 drop forward                                   | Dst. Address:                            | Disable            |
| ;;; defconf: drop all from WAN not DSTNATed         |  |                    |
| 41 🗱 drop forward                                   | Protocol:                                | Comment            |
| ;;; Drop - port scanners                            | Src. Port:                               |                    |
| 42 🗱 drop input                                     |  | Сору               |
| ;;; Drop - port scanners                            | Dst. Port:                               | Demoura            |
| 43 🗱 drop forward                                   | Any, Port:                               | nemove             |
| •   | In. Interface:                           | Reset Counters     |
| 44 items (1 selected)                               | Out. Interface:                          | Reset All Counters |

Этим правилом мы говорим, что fasttrack будет работать только в нашей сети, но не в гостевой.

Делаем ограничения.

Queues -> Queu Types

Создаем два ограничения на download и upload

| Queue List  |                  |            |          |         |  |                   | < IX         |        |
|---|------------------|------------|----------|---------|--|-------------------|--------------|--------|
| Simple Queues Int   | terface Queues   | Queue Tree | Queue Ty | pes     |  |                   |              |        |
| + - 7   |                  |            |          |         |  | Find              | Find         |        |
| Type Name   | ∠ Kind           | ł          |          |         |  |                   | x 🔻          |        |
| Queue Type <queue1< td=""><td>1-guest-download</td><td></td><td></td><td></td><td>Queue Type <queue2< td=""><td>-guest-upload&gt;</td><td></td><td></td></queue2<></td></queue1<> | 1-guest-download |            |          |         | Queue Type <queue2< td=""><td>-guest-upload&gt;</td><td></td><td></td></queue2<> | -guest-upload>    |              |        |
| Type Name:  | queue1-guest-d   | ownload    |          | ОК      | Type Name:   | queue2-guest-uplo | ad           | ОК     |
| Kind:   | pcq              |            | ₹        | Cancel  | Kind:  | pcq               | ₹            | Cancel |
| Rate:   | 20M              |            | bits/s   | Apply   | Rate:  | 20M               | bits/s       | Apply  |
| Queue Size:   | 50               |            | KiB      | Сору    | Queue Size:  | 50                | KiB          | Сору   |
| Total Queue Size:   | 2000             |            | KiB      | Bemove  | Total Queue Size:  | 2000              | KiB          | Bemove |
| Burst Rate:   |                  |            | bits/s   | Nellove | Burst Rate:  |                   | ▼ bits/s     | Hemove |
| Burst Threshold:  |                  |            | •        |         | Burst Threshold:   |                   | <b>~</b>     |        |
| Burst Time:   | 00:00:10         |            |          |         | Burst Time:  | 00:00:10          |              |        |
| Classifier:   | Src. Address     | 🖌 Dst. Ad  | dress    |         | Classifier:  | Src. Address      | Dst. Address |        |
|   | Src. Port        | Dst. Por   | t        |         |  | Src. Port         | Dst. Port    |        |
| Src. Address Mask:  | 32               |            |          |         | Src. Address Mask:   | 32                |              |        |
| Dst. Address Mask:  | 32               |            |          |         | Dst. Address Mask:   | 32                |              |        |
| Src. Address6 Mask:   | 128              |            |          |         | Src. Address6 Mask:  | 128               |              |        |
| Dst. Address6 Mask:   | 128              |            |          |         | Dst. Address6 Mask:  | 128               |              |        |

| Queue List          |                 |                  |                      |                            |                     |  |  |  |
|---------------------|-----------------|------------------|----------------------|----------------------------|---------------------|--|--|--|
| Simple Queues Inter | face Queues Q   | ueue Tree Qu     | eue Types            |                            |                     |  |  |  |
| + - ~ ×             | 🕾 🍸 🕼 F         | Reset Counters   | C Reset All Counters |                            | Find                |  |  |  |
| # Name              | Target U        | Jpload Max Limit | Download Max Limit   | Packet Marks               | Total Max Limit (bi |  |  |  |
| New Simple Queue    |                 |                  |                      |                            |                     |  |  |  |
| General Advance     | ed Statistics T | Fraffic Total    | Total Statistics     |                            | ОК                  |  |  |  |
| Name: qu            | ieue1-guest     |                  |                      |                            | Cancel              |  |  |  |
| Target: 10          | 0.0.0/24        |                  |                      | ₹ \$                       | Apply               |  |  |  |
| Dst.:               |                 |                  |                      | •                          | Disable             |  |  |  |
|                     |                 | Target Upload    | Target I             | Download                   | Comment             |  |  |  |
| Max Limit: 30       | )M              | ₹                | 30M                  | ₹ bits/s                   | Сору                |  |  |  |
| -▲ Burst            | الستقصا         |                  |                      | <b>- - - - - - - - - -</b> | Remove              |  |  |  |
| Burst Threshold: Un | limited         | •                | unlimited            | ▼ Dits/s                   | Reset Counters      |  |  |  |
| o Burst Time: 0     |                 |                  | 0                    | s                          | Reset All Counters  |  |  |  |
| -▼ Time             |                 |                  |                      |                            | Torch               |  |  |  |

| New Simple Queue |   |                    |  |  |  |  |  |
|------------------|---|--------------------|--|--|--|--|--|
| General Adv      | anced Statistics Traffic Total Total Statistics | ОК                 |  |  |  |  |  |
| Packet Marks:    | ¢   | Cancel             |  |  |  |  |  |
|                  | Target Upload Target Download                   | Apply              |  |  |  |  |  |
| Limit At:        | unlimited F unlimited F bits/s                  | Disable            |  |  |  |  |  |
| Priority:        | 88  | Comment            |  |  |  |  |  |
| Bucket Size:     | 0.100 0.100 ratio                               | Сору               |  |  |  |  |  |
| Queue Type:      | queue2-guest-upload ∓ queue1-guest-download ∓   | Remove             |  |  |  |  |  |
| Parent:          | none  | Reset Counters     |  |  |  |  |  |
|                  |   | Reset All Counters |  |  |  |  |  |
|                  |   | Torch              |  |  |  |  |  |
| enabled          |   |                    |  |  |  |  |  |

Подключаемся и проверяем.