

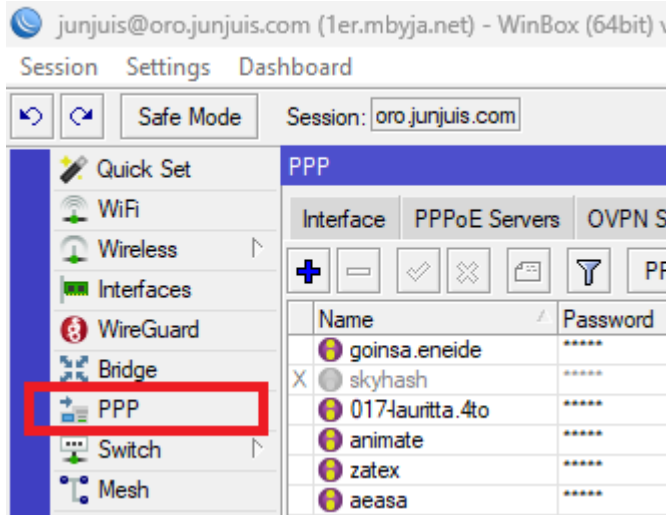
# Puesta en marcha

# VRF

- [Establecer identificador YY](#)
- [Levantar tunel principal](#)
- [Crear VRF](#)
- [Crear OSPF](#)
- [Crear FILTROS de enrutamiento dinamico](#)
- [Crear REGLAS de BGP-VPN](#)

# Establecer identificador YY

1. Verificar si previamente ya no se establecio un identificador dentro de MBYJA.net
1. Buscar si el cliente ya no posee una credencial en PPP



PPP											
Interface PPPoE Servers OVPN Servers <b>Secrets</b> Profiles Active Connections L2TP Ethemet L2TP Secrets											
PPP Authentication&Accounting											
Name	Password	Service	Caller ID	Profile	Local Address	Remote Address	Route		Last Logged Out	Last Caller ID	Last Di
goinsa.eneide	*****	l2p		goinsa.enei...					Feb/18/2025 13:06:57	177.250.48.245	peer re
skyhash	*****	l2p		skyhash					Jan/09/2025 02:05:07	45.190.149.247	hung u
017-lauritta.4to	*****	l2p		lauritta			10.25.17.2	/30	Dec/16/2025 05:16:20	181.103.0.28	hung u
animate	*****	l2p		animate			10.25.101.	8/30	Dec/16/2025 05:16:21	181.103.0.27	hung u
zatex	*****	l2p		zatex			10.25.102.	8/30	Dec/16/2025 05:16:21	181.94.223.153	hung u
aeasa	*****	l2p		aeasa			10.25.104.	8/30	Dec/18/2025 11:31:55	148.222.129....	hung u
triculo	*****	l2p		triculo			10.25.106.	8/30	Dec/16/2025 05:16:23	190.104.148....	hung u
elcastillo	*****	l2p		elcastillo			10.25.110.	8/30	Jun/19/2025 09:53:27	190.104.149.70	peer re
celebra	*****	l2p		celebra			10.25.111.	8/30	Dec/16/2025 05:16:17	181.120.88.16	hung u
colon	*****	l2p		colon			10.25.112.	8/30	Dec/17/2025 08:24:48	181.91.85.129	hung u
goinsa	*****	l2p		goinsa			10.25.114.	8/30	Dec/16/2025 05:16:38	177.251.32.206	hung u
lacia	*****	l2p		lacia			10.25.115.	8/30	Dec/16/2025 05:16:13	181.122.237....	hung u
ardelli	*****	l2p		ardelli			10.25.116.	8/30	Dec/18/2025 07:15:07	181.120.244....	hung u
felici	*****	l2p		felici			10.25.118.	8/30	Dec/16/2025 09:04:56	181.120.79.232	hung u
roacallizo	*****	l2p		roacallizo			10.25.120.	8/30	Dec/16/2025 05:16:35	181.94.226.113	hung u
stilo	*****	l2p		stilo			10.25.121.	8/30	Dec/16/2025 05:16:01	181.120.146....	hung u
vergara	*****	l2p		vergara			10.25.122.	8/30	Dec/16/2025 05:16:17	190.104.159....	hung u
sabores.lil	*****	l2p		sabores.lil			10.25.124.	8/30	Aug/04/2025 19:04:50	181.126.80.221	hung u
masespacio.jar	*****	l2p		masespacio...			10.25.136.	8/30	Aug/03/2025 20:34:58	181.120.161....	hung u
junjuis.spl	*****	l2p		junjuis.spl			10.25.13.2	/30	Jul/29/2024 04:04:32	34.95.183.89	peer re
juan.4to	*****	l2p		juan.4to			10.25.16.2	/30	Jan/12/2025 18:36:16	190.104.182.46	peer re
junjuis.mob	*****	l2p		junjuis.mob			10.25.19.2	/30			
junjuis.sch	*****	l2p		junjuis.sch			10.25.20.2	/30	Jan/13/2025 00:21:21	64.176.15.116	peer re
hieroplus.cap	*****	l2p		hieroplus.c...			10.25.41.2	/30	Jan/13/2025 06:59:56	190.211.242....	peer re
hieroplus.fil	*****	l2p		hieroplus.fil			10.25.51.2	/30	Jan/13/2025 09:30:38	98.97.55.121	peer re
rocatex.adm	*****	l2p		rocatex.adm			10.25.82.2	/30	Jan/13/2025 07:13:41	170.51.121.22	peer re
morado.pas	*****	l2p		morado.pas			10.25.96.2	/30	Feb/01/2025 04:01:16	190.128.130....	peer re
scavol.mra	*****	l2p		scavol.mra			10.25.131.	8/30	Jan/12/2025 18:35:24	181.120.28.56	peer re
ifs.atl	*****	l2p		ifs.atl			10.25.132.	8/30	Dec/13/2024 17:43:09	181.94.244.48	hung u
rubin.asu	*****	l2p		scavol.mra			10.25.133.	8/30			
custompar.cen	*****	l2p		custompar....			10.25.134.	8/30			
raizen.aym	*****	l2p		raizen.wtc			10.25.135.	8/30			
fibrac.czu	*****	l2p		fibrac.czu			10.25.21.2	/30	Jan/12/2025 23:21:59	38.191.34.47	peer re
fibrac.km7	*****	l2p		fibrac.km7			10.25.22.2	/30	Jan/13/2025 00:03:50	143.255.140....	peer re
fibrac.slo	*****	l2p		fibrac.slo			10.25.23.2	/30	Jan/12/2025 23:01:59	181.122.61.77	peer re
fibrac.enc	*****	l2p		fibrac.enc			10.25.25.2	/30	Jan/12/2025 22:57:15	143.255.141....	peer re
fibrac.her	*****	l2p		fibrac.her			10.25.27.2	/30	Sep/03/2024 13:51:52	143.202.210.43	hung u
fibrac.cha	*****	l2p		fibrac.cha			10.25.28.2	/30			
rocatex.sol	*****	l2p		rocatex.sol			10.25.81.2	/30	Feb/26/2024 13:57:41	181.124.134.95	hung u
rocatex.kid	*****	l2p		rocatex.kid			10.25.89.2	/30			
rocatex.cos	*****	l2p		rocatex.cos			10.25.90.2	/30	Dec/16/2025 05:16:38	190.128.202....	hung u
vultr	*****	l2p		vultr			10.25.100.	8/30	Mar/03/2024 10:14:46	64.176.12.124	hung u
alamo	*****	l2p		alamo			10.25.103.	8/30,10....	Aug/02/2024 17:32:25	181.126.80.169	hung u
semar	*****	l2p		semar			10.25.105.	8/30,10....	Jul/04/2023 16:34:26	181.40.66.160	hung u
arb	*****	l2p		L2TP-Server			10.25.107.	8/30			

2. Si no existe, utilizar el numero de VRF: NUMERO MAXIMO +1

1. Ejemplo: en este caso, el maximo es 136, por lo que el nuevo deberia de ser 137.

VRF List		
#	Name	Interfaces
11	041-VRF-hieroplus	041-LAN-P2P_hieroplus-cap, 051-LAN-P2P_hieropl...
10	081-VRF-rocatex	082-LAN-P2P_rocatex-adm_tigo, 081-LAN-P2P_roca...
6	096-VRF-morado	096-LAN-P2P_morado-pas_personal, 096-LAN-P2P_...
5	102-VRF-zatex	102-LAN-P2P_zatex-sol_personal
2	104-VRF-aeasa	104-LAN-P2P_aeasa-ela
14	106-VRF-triculo	106-LAN-P2P_triculo-asu
9	110-VRF-elcastillo	110-LAN-P2P_elcastillo-spl
7	113-VRF-didactica	113-LAN-P2P_didactica-asu, V1113-LAN-SRV_dida...
4	114-VRF-goinsa	114-LAN-VPN_goinsa-cov, 114-LAN-P2P_goinsa-cov
17	131-VRF-scavol	131-LAN-P2P_scavol-mra
0	135-VRF-raizen	BR135
8	136-VRF-masespacio	136-LAN-P2P_masespacio-jar
16	255-VRF-mbyja	252-LAN-P2P_mbyja-sch_main, 253-LAN-P2P_mbyja...
18 *	main	all

19 items (17 selected)

# Levantar tunel principal

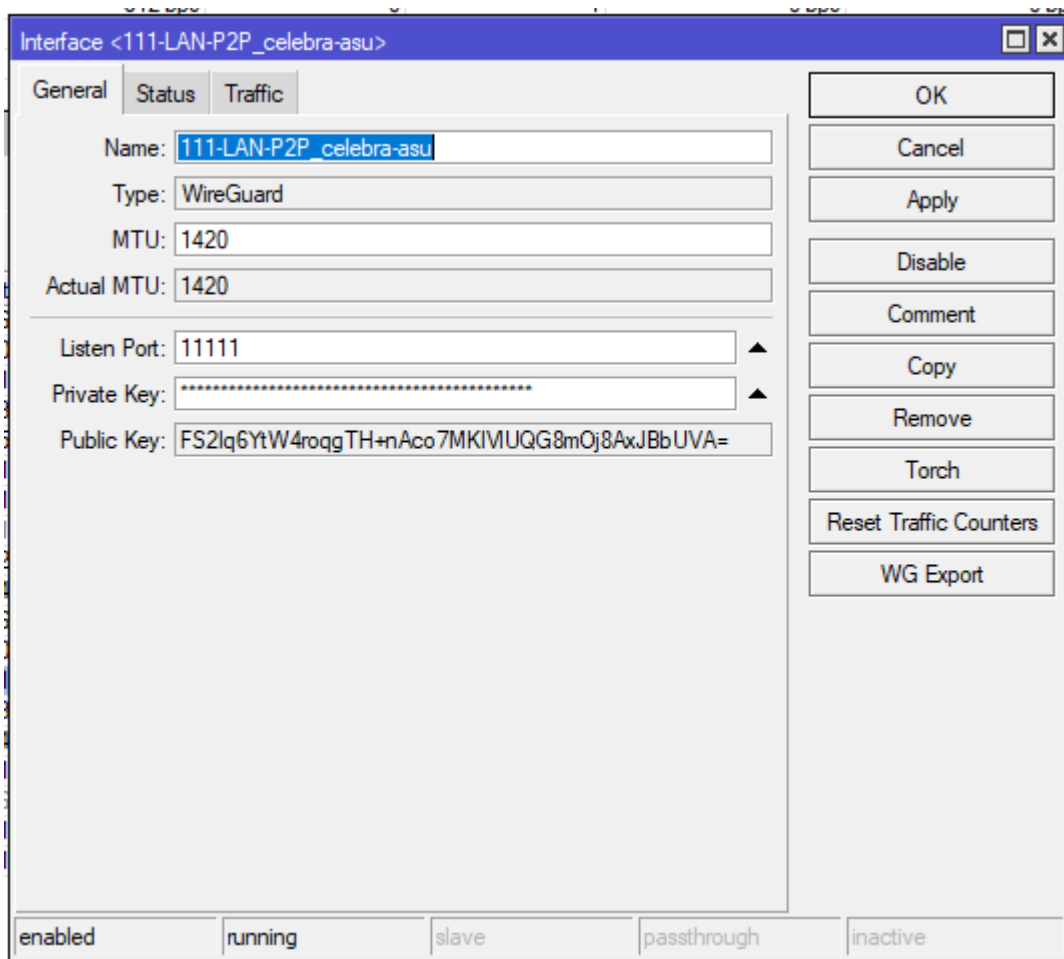
## 1. LADO MBYJA

1. Crear interfaz, utilizando el YY correspondiente, tanto para el nombre como para el puerto.

1. Nombre: **YY-LAN-P2P\_cliente-suc**

2. Puerto: **11YY**

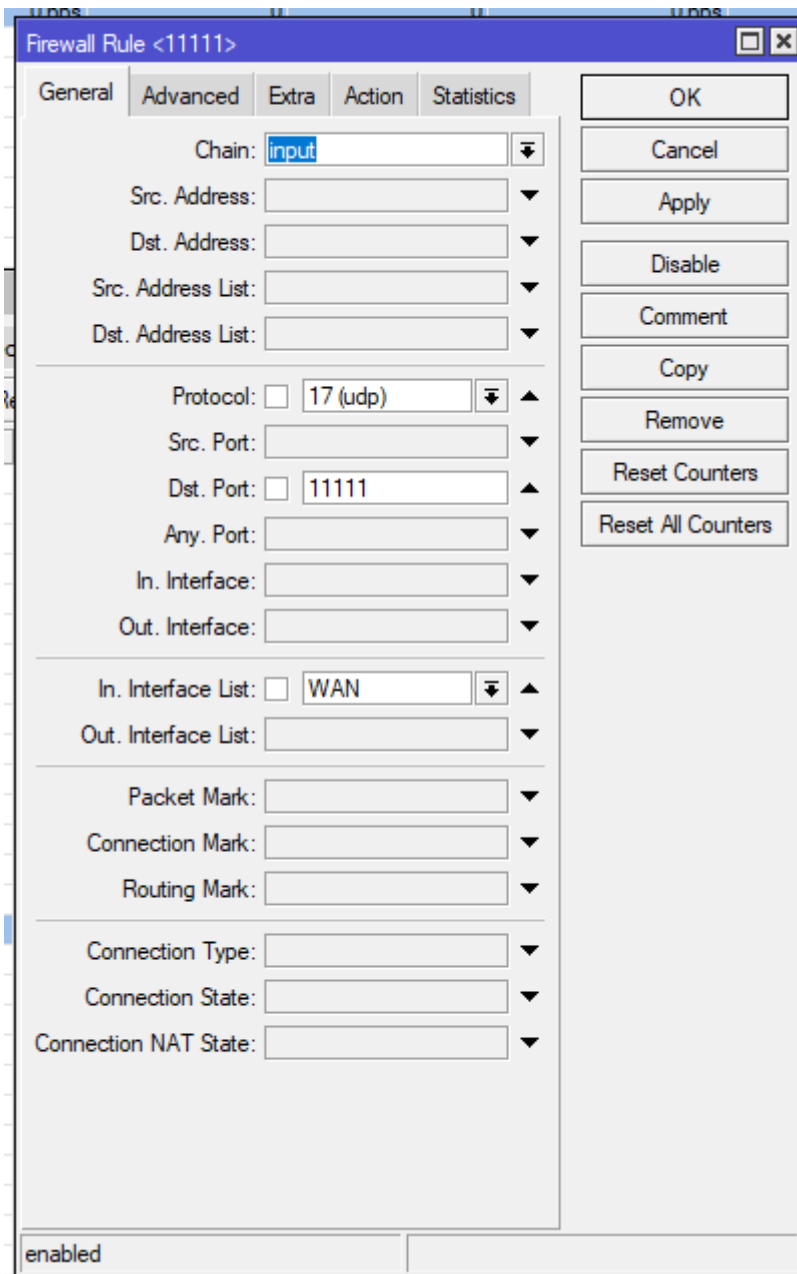
3. Ejemplo: YY=111



## 2. Agregar regla en firewall

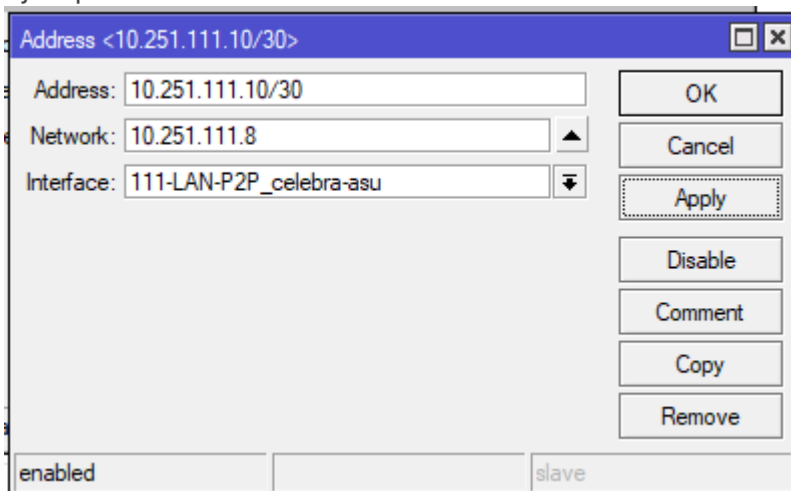
1. Regla INPUT que permita el acceso al puerto UDP correspondiente: 11YY

Ejemplo:



### 3. Asignar IP

1. Direccion: 10.251.YY.10
2. Ejemplo:



3.

## 2. LADO CLIENTE

1. En el lado del cliente, tambien agregar la interfaz y el peer correspondiente.

The screenshot shows a configuration window titled "Interface <251-LAN-P2P\_mbyja-1er\_main>". It has three tabs: "General", "Status", and "Traffic". The "General" tab is active. The configuration fields are as follows:

- Name: 251-LAN-P2P\_mbyja-1er\_main
- Type: WireGuard
- MTU: 1420
- Actual MTU: 1420
- Listen Port: 11111
- Private Key: [Redacted]
- Public Key: 1p1VaC5Rk8axjKCDx2UtRNJGI+r4xFDkGITSRPxN2Ek=

On the right side of the window, there is a vertical stack of buttons: OK, Cancel, Apply, Disable, Comment, Copy, Remove, Torch, Reset Traffic Counters, and WG Export.

At the bottom of the window, there are several status indicators: "enabled", "running", "slave", and "passthrough".

1.

2.

Wireguard Peer <FS2lq6YtW4roqgTH+nAco7MKIMUQG8mOj8AxJBbUVA=>

Name: 251-LAN-P2P\_mbyja-1er\_main

Interface: 251-LAN-P2P\_mbyja-1er\_main

Public Key: FS2lq6YtW4roqgTH+nAco7MKIMUQG8mOj8AxJBbUVA=

Private Key: .....

Endpoint: personal.1er.mbyja.net

Endpoint Port: 11111

Allowed Address: 0.0.0.0/0

Preshared Key:

Persistent Keepalive:

Responder

Current Endpoint Address: 190.104.170.222

Current Endpoint Port: 11111

Rx: 2824 B

Tx: 2616 B

Last Handshake: 00:00:14

Client Address:

Client DNS:

Client Endpoint:

Client Keepalive:

Client Listen Port:

Client Config:

OK

Cancel

Apply

Disable

Comment

Copy

Remove

2. Asignar IP a la interfaz creada.

1.

Address <10.251.111.9/30>

Address: 10.251.111.9/30

Network: 10.251.111.8

Interface: 251-LAN-P2P\_mbyja-1er\_main

OK

Cancel

Apply

Disable

Comment

Copy

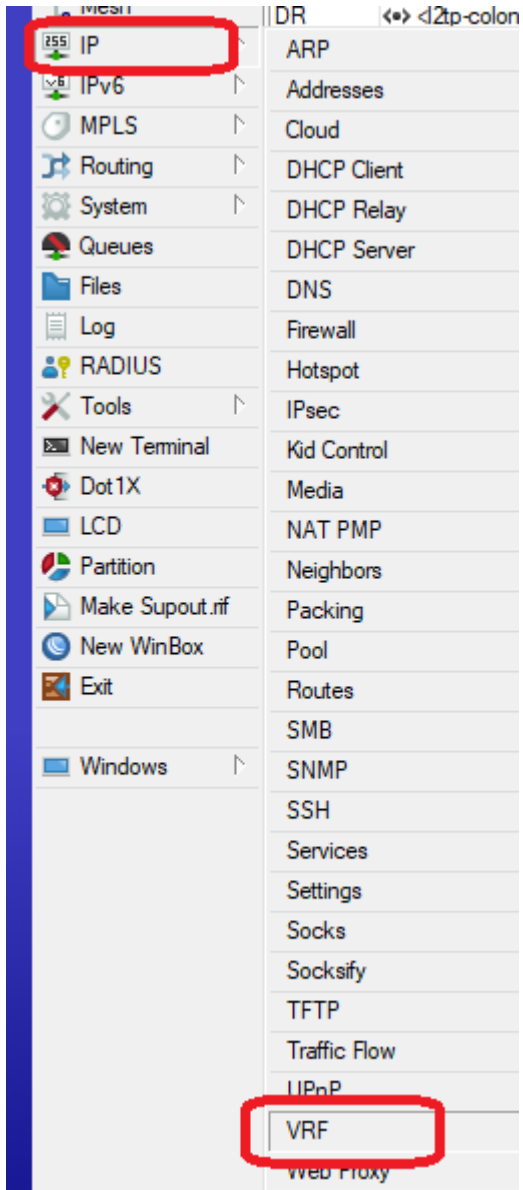
Remove

enabled

slave

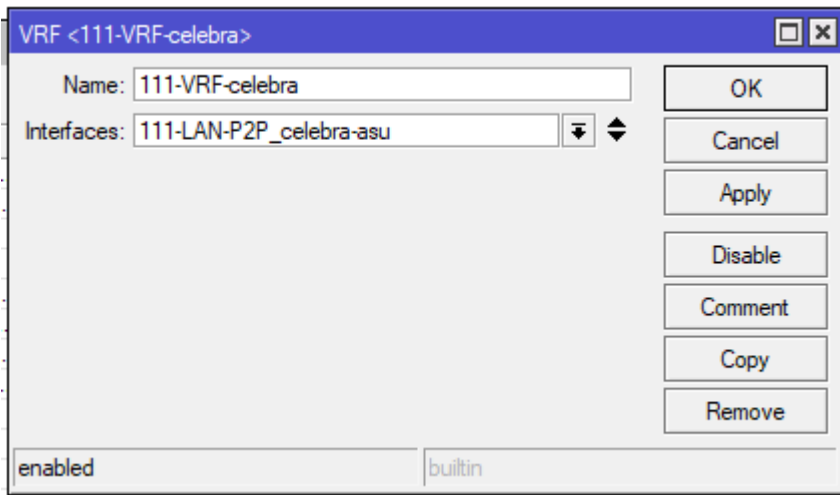
# Crear VRF

1. Accedemos al menu IP > VRF



2. Creamos un VRF

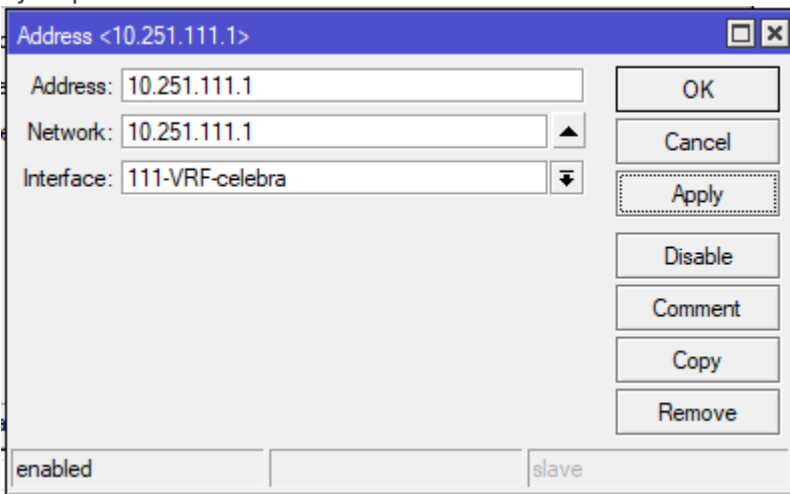
1. Nombre: **YY-VRF-cliente**
2. Interfaces: agregamos la interfaz del tunel creado.
3. Ejemplo:  
YY: 111  
cliente: celebra



3. Asignar IP

1. Direccion: 10.251.YY.1

2. Ejemplo:



# Crear OSPF

## LADO SERVIDOR

1. Crear instancia OSPF
  1. Nombre: backbone-cliente
  2. VRF: seleccionar VRF creado previamente
  3. Redistribucion conforme ejemplo

New OSPF Instance

Name: backbone-celebra

Version: 2

VRF: 111-VRF-celebra

Router ID: id-10

Routing Table:

Originate Default: never

Redistribute:  connected  static  rip  ospf  bgp  vpn  dhcp  fantasy  modem  bgp-mpls-vpn

Out Filter Select:

Out Filter:

In Filter:

Domain ID:

Domain Tag:

MPLS TE Address:

MPLS TE Area:

enabled

2. Crear AREA
  1. Nombre: area-cliente
  2. Instancia: seleccionar la instancia creada previamente
  3. Area ID: 10.YY.0.0
  4. Ejemplo:

**New OSPF Area**

Name:

Instance:

Area ID:

Type:

No Summaries

Default Cost:

NSSA Translator:

Transit Capable

OK  
Cancel  
Apply  
Disable  
Comment  
Copy  
Remove

### 3. Crear INTERFACE

1. Interface
2. Area:
3. Costo:
4. BFD:
5. Ejemplo:

**OSPF Interface Template**

Interfaces:

Area:

Networks:

Network Type:

Prefix List:

Instance ID:

Cost:

Priority:

Passive

Authentication:

Auth. Key:

Auth. ID:

Vlink Transit Area:

Vlink Neighbor ID:

Use BFD:

Retransmit Interval:

Transmit Delay:

Hello Interval:

Dead Interval:

OK  
Cancel  
Apply  
Disable  
Comment  
Copy  
Remove

1. Crear INSTANCIA

The screenshot shows the 'OSPF Instance <ospf-instance-celebra>' configuration window. The 'Name' field is set to 'ospf-instance-celebra'. The 'Version' is set to '2', 'VRF' to 'main', and 'Router ID' to 'main'. The 'Routing Table' is empty. Below these are fields for 'Originate Default', 'Redistribute', 'Out Filter Select', 'Out Filter', and 'In Filter', all currently empty. At the bottom, there are fields for 'Domain ID', 'Domain Tag', 'MPLS TE Address', and 'MPLS TE Area', also empty. A status bar at the bottom left shows 'enabled'. On the right side, there is a vertical stack of buttons: 'OK', 'Cancel', 'Apply', 'Disable', 'Comment', 'Copy', and 'Remove'.

1.

2. Crear AREA

The screenshot shows the 'OSPF Area <ospf-area-celebra>' configuration window. The 'Name' field is 'ospf-area-celebra'. The 'Instance' dropdown is set to 'ospf-instance-celebra'. The 'Area ID' is '10.111.0.0' and the 'Type' is 'default'. There is an unchecked checkbox for 'No Summaries'. The 'Default Cost' field is empty. The 'NSSA Translator' field is empty. At the bottom, there is an unchecked checkbox for 'Transit Capable'. A status bar at the bottom left shows 'enabled' and at the bottom right shows 'transit capable'. On the right side, there is a vertical stack of buttons: 'OK', 'Cancel', 'Apply', 'Disable', 'Comment', 'Copy', and 'Remove'.

1.

3. Crear INTERFACE PTP

OSPF Interface Template

Interfaces: 251-LAN-P2P\_mbyja-1er\_main

Area: ospf-area-celebra

Networks:

Network Type: ptp

Prefix List:

Instance ID: 0

Cost: 1210

Priority: 128

Passive

Authentication:

Auth. Key:

Auth. ID:

Vlink Transit Area:

Vlink Neighbor ID:

Use BFD:

Retransmit Interval: 00:00:05

Transmit Delay: 1

Hello Interval: 00:00:10

Dead Interval: 00:00:40

enabled

OK

Cancel

Apply

Disable

Comment

Copy

Remove

1.

4. Crear INTERFACE BROADCAST
5. Crear regla de FIREWALL

Firewall Rule <>

General   Advanced   Extra   Action   Statistics

Chain:  ▾

Src. Address:  ▾

Dst. Address:  ▾

Src. Address List:  ▾

Dst. Address List:  ▾

---

Protocol:   ▾ ▲

Src. Port:  ▾

Dst. Port:  ▾

Any. Port:  ▾

In. Interface:  ▾

Out. Interface:  ▾

---

In. Interface List:   ▾ ▲

Out. Interface List:  ▾

---

Packet Mark:  ▾

Connection Mark:  ▾

Routing Mark:  ▾

---

Connection Type:  ▾

Connection State:  ▾

Connection NAT State:  ▾

enabled

OK

Cancel

Apply

Disable

Comment

Copy

Remove

Reset Counters

Reset All Counters

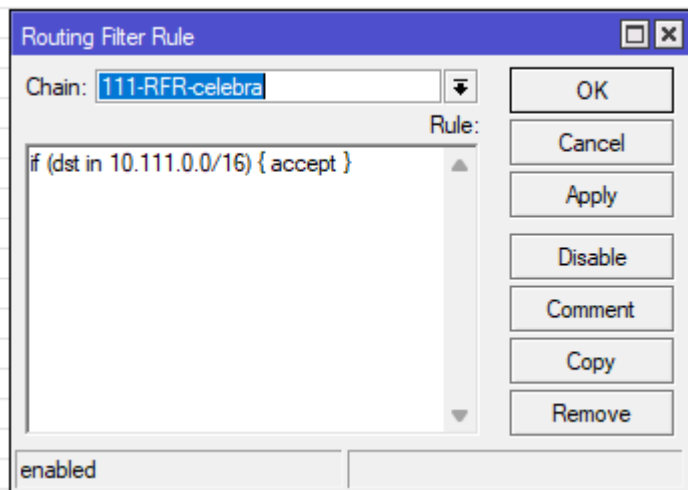
1.

# Crear FILTROS de enrutamiento dinámico

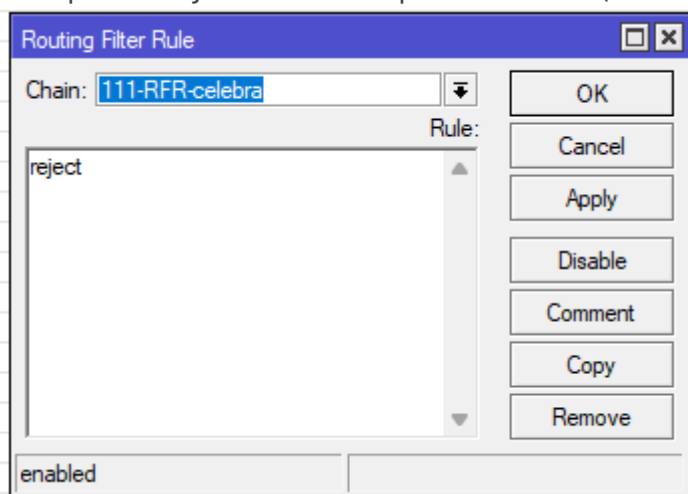
1. Ingresar al menu ROUTING > FILTERS
2. Agregar los filtros segun las redes que se deseen incluir en el enrutado dinamico.
3. Ejemplo:

#	Chain	Rule
41	114-RFR-goinsa	if (dst in 10.114.0.0/16) { accept }
46	114-RFR-goinsa	if (dst in 192.168.30.0/24) { accept }
63	114-RFR-goinsa	reject

4. Agregar un filtro por hilo



5. Siempre el REJECT debe de quedar al final (se ordenan por ID)



Route Filters					
Rule	Select Rule	Num Set	Community Set	Community Ext Set	Community Large Set
#	Chain	Rule			
28	mbyja->hieroplus	if (dst in 10.46.0.0/16) { accept }			
29	mbyja->hieroplus	if (dst in 10.47.0.0/16) { accept }			
30	mbyja->elcastillo	if (dst in 10.110.0.0/16) { accept }			
31	mbyja->hieroplus	if (dst in 10.48.0.0/16) { accept }			
32	mbyja->hieroplus	if (dst in 10.49.0.0/16) { accept }			
33	mbyja->hieroplus	if (dst in 10.50.0.0/16) { accept }			
34	mbyja->hieroplus	if (dst in 10.51.0.0/16) { accept }			
35	mbyja->rocatex	if (dst in 10.81.0.0/16) { accept }			
36	mbyja->morado	if (dst in 10.95.0.0/16) { accept }			
37	mbyja->morado	if (dst in 10.96.0.0/16) { accept }			
38	mbyja->didactica	if (dst in 10.113.0.0/16) { accept }			
39	mbyja->triciclo	if (dst in 10.106.0.0/16) { accept }			
40	mbyja->aeasa	if (dst in 10.104.0.0/16) { accept }			
41	114-RFR-goinsa	if (dst in 10.114.0.0/16) { accept }			
42	111-RFR-celebra	if (dst in 10.111.0.0/16) { accept }			
43	102-RFR-zatex	if (dst in 10.102.0.0/16) { accept }			
44	136-RFR-masespacio	if (dst in 10.136.0.0/16) { accept }			
45	mbyja->scavol	if (dst in 10.131.0.0/16) { accept }			
46	mbyja->didactica	if (dst in 192.168.47.0/24) { accept }			
47	114-RFR-goinsa	if (dst in 192.168.30.0/24) { accept }			
48	111-RFR-celebra	if (dst in 192.168.40.0/24) { accept }			
49	102-RFR-zatex	if (dst in 192.168.38.0/24) { accept }			
50	mbyja->raizen	if (dst in 192.168.60.0/24) { accept }			
51	mbyja->elcastillo	if (dst in 192.168.31.0/24) { accept }			
52	mbyja->rocatex	if (dst in 192.168.5.0/24) { accept }			
53	mbyja->rocatex	if (dst in 10.82.0.0/16) { accept }			
54	mbyja->rocatex	if (dst in 10.83.0.0/16) { accept }			
55	mbyja->rocatex	if (dst in 10.84.0.0/16) { accept }			
56	mbyja->rocatex	if (dst in 10.85.0.0/16) { accept }			
57	mbyja->rocatex	if (dst in 10.86.0.0/16) { accept }			
58	mbyja->rocatex	if (dst in 10.87.0.0/16) { accept }			
59	mbyja->rocatex	if (dst in 10.88.0.0/16) { accept }			
60	mbyja->rocatex	if (dst in 10.89.0.0/16) { accept }			
61	mbyja->rocatex	if (dst in 10.90.0.0/16) { accept }			
62	mbyja->fibrac	reject			
63	mbyja->mbyja	reject			
64	mbyja->hieroplus	reject			
65	114-RFR-goinsa	reject			
66	111-RFR-celebra	reject			
67	102-RFR-zatex	reject			
68	mbyja->raizen	reject			
69	mbyja->morado	reject			
70	mbyja->junjuis	reject			
71	mbyja->rocatex	reject			
72	mbyja->didactica	reject			
73	mbyja->aeasa	reject			
74	136-RFR-masespacio	reject			
75	mbyja->elcastillo	reject			
76	mbyja->triciclo	reject			
77	mbyja->lauritta	reject			
78	mbyja->animate	reject			
79	mbyja->lo	reject			
80	mbyja->l2tp	reject			
81	mbyja->kude	reject			
82	mbyja->scavol	reject			
83	mbyja->juan	reject			



# Crear REGLAS de BGP-VPN

1. Ingresar al ROUTING > BGP
2. Ingresar a la pestaña VPN
  1. Ordenar por VRF e identificar las reglas de junjuis para con otros clientes.

Instance	Route Distinguisher	VRF	Label Allocation P...	Import Route Targets	Export Route T...	Import Filter	Export Filter	R
unique	10:255	010-VRF-junjuis	per-vrf	255.10				ct
unique	10:10	010-VRF-junjuis	per-vrf	12.10, 17.10, 21.10, 41.10, 81.10, 96.10, 102.10, 106.10, 110.10, 113.10, 114.10, 131.10, 135.10, 136.10, 251.10				ct
unique	10:251	010-VRF-junjuis	per-vrf	12.251, 17.251, 21.251, 41.251, 81.251, 96.251, 102.251, 106.251, 110.251, 113.251, 114.251, 131.251, 135.251, 136.251		mbjya->mbjya		ct
unique	10:251	010-VRF-junjuis	per-vrf	255.12, 255.17, 255.21, 255.41, 285.81, 255.96, 255.102, 255.106, 255.110, 255.113, 255.114, 255.131, 255.135, 255.136, 255.251				ct
unique	12:10	012-VRF-kude	per-vrf	255.10, 10.255	12.10	mbjya->junjuis	mbjya->kude	ct
unique	12:255	012-VRF-kude	per-vrf	255.12	12.255	mbjya->kude	mbjya->kude	ct
unique	12:251	012-VRF-kude	per-vrf	251.12	12.251	mbjya->mbjya	mbjya->mbjya	ct
unique	17:10	017-VRF-lauritta	per-vrf	255.10, 10.255	17.10	mbjya->junjuis	mbjya->lauritta	ct
unique	17:251	017-VRF-lauritta	per-vrf	251.17	17.251	mbjya->mbjya	mbjya->mbjya	ct
unique	17:255	017-VRF-lauritta	per-vrf	255.17	17.255	mbjya->lauritta	mbjya->lauritta	ct
unique	21:10	021-VRF-fibrac	per-vrf	255.10, 10.255	21.10	mbjya->junjuis	mbjya->fibrac	ct
unique	21:255	021-VRF-fibrac	per-vrf	255.21	21.255	mbjya->fibrac	mbjya->fibrac	ct
unique	21:251	021-VRF-fibrac	per-vrf	251.21	21.251	mbjya->junjuis	mbjya->mbjya	ct
unique	41:10	041-VRF-hieroplus	per-vrf	255.10, 10.255	41.10	mbjya->junjuis	mbjya->hieroplus	ct
unique	41:251	041-VRF-hieroplus	per-vrf	251.41	41.251	mbjya->mbjya	mbjya->mbjya	ct
unique	41:255	041-VRF-hieroplus	per-vrf	255.41	41.255	mbjya->hieroplus	mbjya->hieroplus	ct
unique	81:10	081-VRF-rocatex	per-vrf	255.10, 10.255	81.10	mbjya->junjuis	mbjya->rocatex	ct
unique	81:251	081-VRF-rocatex	per-vrf	251.81	81.251	mbjya->mbjya	mbjya->mbjya	ct
unique	81:255	081-VRF-rocatex	per-vrf	255.81	81.255	mbjya->rocatex	mbjya->rocatex	ct
unique	96:10	096-VRF-morado	per-vrf	255.10, 10.255	96.10	mbjya->junjuis	mbjya->morado	ct
unique	96:251	096-VRF-morado	per-vrf	251.96	96.251	mbjya->mbjya	mbjya->mbjya	ct
unique	96:255	096-VRF-morado	per-vrf	255.96	96.255	mbjya->morado	mbjya->morado	ct
unique	102:10	102-VRF-zatex	per-vrf	255.10, 10.255	102.10	mbjya->junjuis	102-RFR-zatex	ct
unique	102:251	102-VRF-zatex	per-vrf	251.102	102.251	mbjya->mbjya	mbjya->mbjya	ct
unique	102:255	102-VRF-zatex	per-vrf	255.102	102.255	102-RFR-zatex	102-RFR-zatex	ct
unique	106:10	106-VRF-triciclo	per-vrf	255.10, 10.255	106.10	mbjya->junjuis	mbjya->triciclo	ct
unique	106:251	106-VRF-triciclo	per-vrf	251.106	106.251	mbjya->mbjya	mbjya->mbjya	ct
unique	106:255	106-VRF-triciclo	per-vrf	255.106	106.255	mbjya->triciclo	mbjya->triciclo	ct
unique	110:10	110-VRF-elcastillo	per-vrf	255.10, 10.255	110.10	mbjya->junjuis	mbjya->elcastillo	ct
unique	110:251	110-VRF-elcastillo	per-vrf	251.110	110.251	mbjya->mbjya	mbjya->mbjya	ct
unique	110:255	110-VRF-elcastillo	per-vrf	255.110	110.255	mbjya->elcastillo	mbjya->elcastillo	ct
unique	113:10	113-VRF-didactica	per-vrf	255.10, 10.255	113.10	mbjya->junjuis	mbjya->didactica	ct
unique	113:251	113-VRF-didactica	per-vrf	251.113	113.251	mbjya->mbjya	mbjya->mbjya	ct
unique	113:255	113-VRF-didactica	per-vrf	255.113	113.255	mbjya->didactica	mbjya->didactica	ct
unique	114:10	114-VRF-goinsa	per-vrf	255.10, 10.255	114.10	mbjya->junjuis	114-RFR-goinsa	ct
unique	114:251	114-VRF-goinsa	per-vrf	251.114	114.251	mbjya->mbjya	mbjya->mbjya	ct
unique	114:255	114-VRF-goinsa	per-vrf	255.114	114.255	mbjya->goinsa	mbjya->goinsa	ct
unique	131:10	131-VRF-acavol	per-vrf	255.10, 10.255	131.10	mbjya->junjuis	mbjya->acavol	ct
unique	131:251	131-VRF-acavol	per-vrf	251.131	131.251	mbjya->mbjya	mbjya->mbjya	ct

2. En la regla con route distinguisher **10:10** agregar import target **YY:10**

BGP VPN <10:10>

Instance: unique

Route Distinguisher: 10:10

VRF: 010-VRF-junjuis

Label Allocation Policy: per-vrf

Import Route Targets:

- 12:10
- 17:10
- 21:10
- 41:10
- 81:10
- 96:10
- 102:10
- 106:10
- 110:10
- 111:10**
- 113:10
- 114:10
- 131:10
- 135:10
- 136:10
- 251:10

Export Route Targets:

Import Filter:

Export Select:

enabled

3. En la regla con route distinguisher **10:251 (1)** agregar import target **YY:251**

BGP VPN <10:251>

Instance: unique

Route Distinguisher: 10:251

VRF: 010-VRF-junjuis

Label Allocation Policy: per-vrf

Import Route Targets:

- 12:251
- 17:251
- 21:251
- 41:251
- 81:251
- 96:251
- 102:251
- 106:251
- 110:251
- 111:251
- 113:251
- 114:251
- 131:251
- 135:251
- 136:251

Export Route Targets:

Import Filter: mbyja->mbyja

Export Select:

Export Filter:

Redistribute:  connected  static  rip  ospf  bgp  vpn  dhcp  fantasy  modem  bgp-mpls-vpn

enabled

4. En la regla con route distinguisher **10:251 (2)** agregar import target **255:YY**

BGP VPN <10:251>

Instance: unique

Route Distinguisher: 10:251

VRF: 010-VRF-junjuis

Label Allocation Policy: per-vrf

Import Route Targets:

- 255:12
- 255:17
- 255:21
- 255:41
- 255:81
- 255:96
- 255:102
- 255:106
- 255:110
- 255:111
- 255:113
- 255:114
- 255:131
- 255:135
- 255:136
- 255:251

Export Route Targets:

Import Filter:

Export Select:

Export Filter:

Redistribute:  connected  static  rip  ospf  bgp  vpn  dhcp  fantasy  modem  bgp-mpls-vpn

enabled

5. Identificar 3 reglas de un cliente y replicar las reglas

unique	110:10	110-VRF-elcastillo	per-vrf	255:10, 10:255	110:10	mbyja->junjuis	mbyja->elcastillo	connected static ospf
unique	110:251	110-VRF-elcastillo	per-vrf	251:110	110:251	mbyja->mbyja	mbyja->mbyja	connected static ospf
unique	110:255	110-VRF-elcastillo	per-vrf	255:110	110:255	mbyja->elcastillo	mbyja->elcastillo	connected static ospf

6. En la regla con route distinguisher **YY:10**

New BGP VPN

Instance: unique

Route Distinguisher: 111:10

VRF: 111-VRF-celebra

Label Allocation Policy: per-vrf

Import Route Targets: 255:10  
10:255

Export Route Targets: 111:10

Import Filter: mbyja->junjuis

Export Select:

Export Filter: 111-RFR-celebra

Redistribute:  connected  static  rip  ospf  bgp  vpn  dhcp  fantasy  modem  bgp-mpls-vpn

enabled

7. En la regla con route distinguisher **YY:251**

New BGP VPN

Instance: unique

Route Distinguisher: 111:251

VRF: 111-VRF-celebra

Label Allocation Policy: per-vrf

Import Route Targets: 251:111

Export Route Targets: 111|251

Import Filter: mbyja->mbyja

Export Select:

Export Filter: mbyja->mbyja

Redistribute:  connected  static  rip  ospf  bgp  vpn  dhcp  fantasy  modem  bgp-mpls-vpn

enabled

8. En la regla con route distinguisher **YY:255**

BGP VPN <111:255>

Instance:  ▾

Route Distinguisher:

VRF:  ▾

Label Allocation Policy:  ▾

Import Route Targets:  ▲

Export Route Targets:  ▼

Import Filter:  ▾ ▲

Export Select:  ▼

Export Filter:  ▾ ▲

Redistribute:  connected  static  rip  ospf  bgp  vpn  dhcp  fantasy  modem  bgp-mpls-vpn ▲

- Ca
- Ap
- Dis
- Co
- Ren

enabled