

En Dios Confiamos



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6 RAZONES PARA SER PARTNERS

BUSCAMOS LOGRAR EN CONJUNTO CON NUESTROS
CANALES, EL DESARROLLO DEL MERCADO DE
CONECTIVIDAD Y SEGURIDAD



STOCK PERMANENTE



*PROGRAMA PARTNER
REVENDEDORES, DISTRIBUIDORES
E INTEGRADORES*



*CERTIFICACIONES DE LOS
PRODUCTOS QUE OFRECEMOS*



GARANTÍAS LOCALES



*PROTECCIÓN PARA
PROYECTOS*



*ARTICULOS PROMOCIONALES
& MERCHANDISING*



CAPACITACIONES CONTINUAS

CALENDARIO ACTIVIDADES



FEBRERO 2019



WEBINAR



IDEAS DE NEGOCIO



TALLER TÉCNICO

PLAN DE CAPACITACIONES GRATUITAS

mum
MUNICIPIO DE MARIKALTA

HOTEL HILTON
8 DE FEBRERO | 9:00 AM
MikroTik

VIERNES
01

TALLER TÉCNICO
HORARIO: 4:00 PM - 6:00 PM
@lhua

TALLER

TECNOLOGÍA DMR
IMPLEMENTACIÓN DIGITAL CON
HYTERA

MARTES
12

WEBINAR
HORARIO: 10:00 AM - 11:00 AM
CO ELEMENTS*
CONOCE TODA LA GAMA DE
PRODUCTOS DE RF ELEMENTS

VIERNES
15

TALLER TÉCNICO
HORARIO: 4:00 PM - 6:00 PM
UBIQUITI
APRENDA A CONFIGURAR LA
SOLUCIÓN UNIFI
NIVEL BÁSICO

SABADO
16

TALLER TÉCNICO
HORARIO: 10:00 AM - 1:00 PM
ZKTeco
APRENDA A CONFIGURAR EL
SOFTWARE PARA CONTROL DE
ASISTENCIA

MARTES
19

WEBINAR
HORARIO: 10:00 AM - 11:00 AM
GRANDSTREAM
BENEFICIOS DE LA LÍNEA DE
ACCESS POINT DE GRANDSTREAM

VIERNES
22

IDEAS DE NEGOCIO
HORARIO: 4:00 PM - 6:00 PM
PARADOX
COMO CREAR UN NEGOCIO DE
CENTRAL DE MONITOREO
INALÁMBRICA & ANALÓGICA

SABADO
23

TALLER TÉCNICO
HORARIO: 10:00 AM - 1:00 PM
Intelbras
APRENDA A CONFIGURAR
CENTRALES DE CONDOMINIOS



Conectividad de alta velocidad con Fibra Óptica

Caso de Éxito: Operador de TI con mas de **1500 usuarios** con **Mikrotik**





Conectividad de alta velocidad con Fibra Óptica

Empresa **peruana** de Telecomunicaciones con una **red propia de Fibra Óptica al 100%** en todo el país.

40 ciudades y más **de 2,000** clientes





Somos el **CUARTO** operador de
FIBRA ÓPTICA a nivel **NACIONAL**

Contamos con más de **3500 km** de
FIBRA ÓPTICA DESPLEGADA a nivel **NACIONAL**

Empresa **PERUANA** con una **RED PROPIA** de
FIBRA ÓPTICA AL 100% en todo el **PAÍS**

Estamos en más de **40 CIUDADES** y
contamos con más de **1,500 CLIENTES CON MIKROTIK**



Internet dedicado



Telefonía IP



Seguridad perimetral



Conectividad
de sedes



Cloud Server



WIFI Gestionado



Fibra Oscura



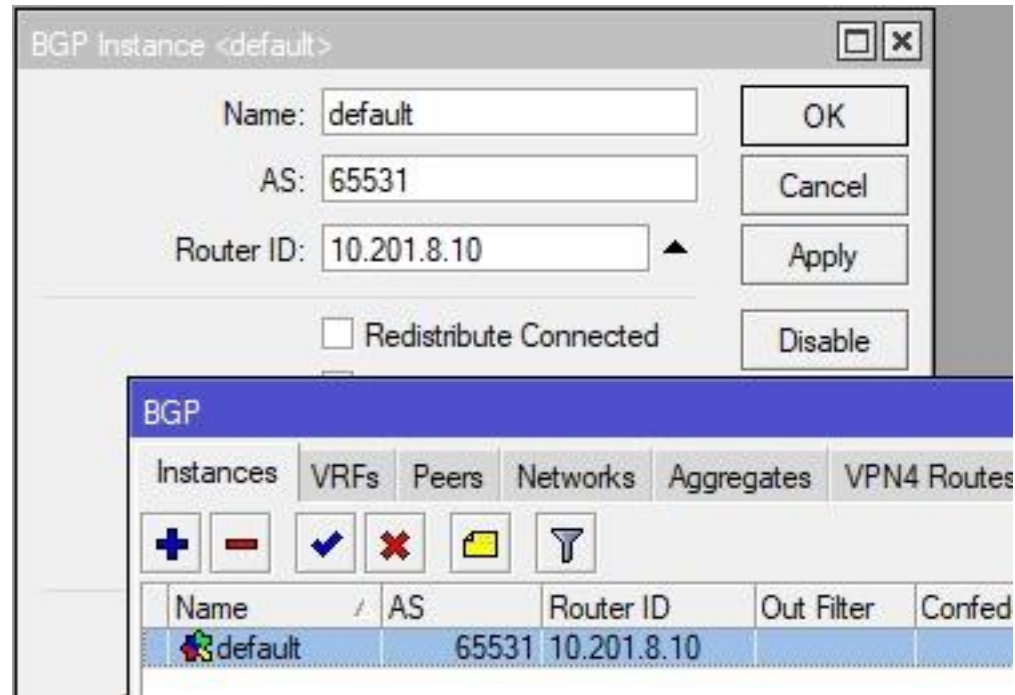
Última milla

Aplicaciones de

MIKROTIK en la red FIBERLUX



Nuestra Red Metro Ethernet



Nuestra Red Metro Ethernet

NAT

Session: 10.100.13.100.8250

Terminal

```
>  
>  
>  
> ip firewall nat print  
Flags: X - disabled, I - invalid, D - dynamic  
0 chain=srcnat action=src-nat to-addresses=181.224.251.255  
  src-address=192.168.88.0/24 log=no log-prefix=""  
[ ] >
```

+

-

✓

✗

📄

🔍

00 Reset Counters00 Reset All CountersFind

#	Action	Chain	Src. Address	Dst. Address	Proto...	Src. Port	Dst. Port	In. Inte
0	src-nat	srcnat	192.168.88...					

Nuestra Red Metro Ethernet

Lan Extendida

Session: 10.100.30.222:8250

Address List

+

-

✓

✗

📄

🔍

Find

Address	Network	Interface
✚ 10.100.30.222...	10.100.30.192	BR_WAN

1 item

address (cc:2d:e0

bridge port receive

address (cc:2d:e0

bridge port receive

address (cc:2d:e0

bridge port receive

address (cc:2d:e0

bridge port receive

address (cc:2d:e0

bridge port receive

address (cc:2d:e0

bridge port receive

address (cc:2d:e0

bridge port receive

Apr/20/1970 06:18:12	memory	system, info, account	user 2nsoprote logged in
Apr/22/1970 02:43:03	memory	interface, info	ether2 link down
Apr/22/1970 02:47:25	memory	interface, info	ether2 link up (speed 100

Nuestra Red Metro Ethernet

Túnel

```
Terminal
down
:te@Caja 0] > interface gre
add comment disable edit enable export find print remove set unset
:te@Caja 1] > interface gre print
Flags: X - disabled, R - running
0 R name="TO-AQP-BACK" mtu=auto actual-mtu=1476 local-address=10.201.48.90
remote-address=10.193.0.218 dscp=inherit clamp-tcp-mss=yes
dont-fragment=no allow-fast-path=yes
1 R name="TO-AQP-Princ" mtu=auto actual-mtu=1476 local-address=10.201.48.90
remote-address=10.193.0.226 dscp=inherit clamp-tcp-mss=yes
dont-fragment=no allow-fast-path=yes
2 R name="Tunnel-CruzDelSur-TDP" mtu=auto actual-mtu=1476
local-address=10.201.48.90 remote-address=10.100.68.218 dscp=inherit
clamp-tcp-mss=yes dont-fragment=no allow-fast-path=yes
:te@Caja 1] >
```

Nuestra Red Metro Ethernet

Balanceo de carga - mangle

```
Terminal
34  ;;; srv unitel a bitel2
    chain=prerouting action=mark-routing new-routing-mark=to_bitel2 passthrough=no
    dst-address=200.62.141.128/29 log=no log-prefix=""

35  ;;; youtube a telefonica
    chain=prerouting action=mark-routing new-routing-mark=to_telefonica passthrough=no
    dst-address=209.85.231.0/24 log=no log-prefix=""

36  ;;; youtube a bitel2
    chain=prerouting action=mark-routing new-routing-mark=to_bitel2 passthrough=no
    dst-address=190.238.117.0/24 log=no log-prefix=""

37  ;;; scordsoft a tdp - No subir antes de face
    chain=prerouting action=mark-routing new-routing-mark=to_bitel2 passthrough=no
    dst-address=108.179.198.155 log=no log-prefix=""

38  ;;; speedtest telefonica
    chain=prerouting action=mark-routing new-routing-mark=to_telefonica passthrough=no
    dst-address=72.21.92.82 log=no log-prefix=""

39  ;;; arellano-bit2
    chain=prerouting action=mark-routing new-routing-mark=to_bitel2 passthrough=no
    dst-address=72.9.159.15 log=no log-prefix=""

40  ;;; onedrive a flx
    chain=prerouting action=mark-routing new-routing-mark=to_telefonica2 passthrough=no
    dst-address=204.79.197.217 log=no log-prefix=""

41  ;;; youtub a bitel1
    chain=prerouting action=mark-routing new-routing-mark=to_bitel1 passthrough=no
    dst-address=181.176.244.16/28 log=no log-prefix=""

42  ;;; campus conti bitel 2
    chain=prerouting action=mark-routing new-routing-mark=to_bitel2 passthrough=no
    dst-address=52.20.194.245 log=no log-prefix=""

43  chain=prerouting action=accept dst-address=200.37.187.160/29 in-interface=bridgel log=no
    log-prefix=""
```

Nuestra Red Metro Ethernet

Balaneo de carga - mangle

::: Bitel2					
S	0.0.0.0/0	181.176.184.169 reachable ether3	4		
::: BITE1					
AS	0.0.0.0/0	181.176.181.1 reachable ether2	1 to_bitel1		
::: Telefonica					
AS	0.0.0.0/0	181.65.180.113 reachable ether1	1 to_telefonica		
::: Bitel2					
AS	0.0.0.0/0	181.176.184.169 reachable ether3	1 to_bitel2		
::: Bitel					
AS	0.0.0.0/0	181.65.180.113 reachable ether1	1 to_Rak		
::: Telefonica2					
S	0.0.0.0/0	200.37.187.161 reachable sfp1	2		
AS	0.0.0.0/0	200.37.187.161 reachable sfp1	1 to_telefonica2		
::: Telefonica2					

Nuestra Red Metro Ethernet

Colas de control de trafico

Queue List					
Simple Queues Interface Queues Queue Tree Queue Types					
+ - ✓ ✗ 📄 🔍 00 Reset Counters 00 Reset All Counters					
#	Name	Target	Upload Max Limit	Download Max Limit	Pack
0	Public1 ...	181.224.251.212	10M	10M	
1	Public2 ...	181.224.251.210	20M	20M	
2	Public3 ...	181.224.251.213	10M	10M	
3	Publico...	181.224.251.214	5M	5M	
4	BW-Total	ether1-gateway	45M	45M	

Nuestra Red Metro Ethernet

Calidad de servicio - telefonia

Simple Queues Interface Queues Queue Tree Queue Types									
      Reset Counters Reset All Counters Find									
Name	Parent	Packet ...	Limit At (b...	Max Limit ...	Avg. R...	Queued Bytes	Bytes	Packets	
 carga	ether1			12M	1912 bps	0 B	98.7 MiB	649 769	
 voz-ip	carga	pbx-cp		1M	1912 bps	0 B	98.7 MiB	649 769	
 descarga	BR_LAN			12M	2.6 kbps	0 B	107.4 ...	611 506	
 voz-ip-d	descarga	pbx-cp		1M	2.6 kbps	0 B	107.4 ...	611 506	

Soluciones de diagnóstico de fallas

Soluciones de diagnóstico de fallas

Neighbor

Neighbor List						
Discovery Settings						
Interface	IP Address	MAC Address	Identity	Platform	Version	Board ...
 bridge-local	172.20.64.11	60:73:5C:45:C0:01	SW_SERVER...	cisco WS-C3750...	Cisco IOS Soft...	

Soluciones de diagnóstico de fallas

ARP

ARP List			
			
	IP Address	MAC Address	Interface
DC	10.255.255.230	B4:E9:B0:6D:F9:EE	Bridge_LAN
DC	200.1.183.105	00:04:96:9C:CD:24	Sfp1_WAN

Soluciones de diagnóstico de fallas

Ping

Terminal					Terminal				
3508	181.224.227.2	56	60	14ms	3506	181.224.229.2	56	59	14ms
3509	181.224.227.2	56	60	14ms	3507	181.224.229.2	56	59	15ms
3510	181.224.227.2	56	60	14ms	3508	181.224.229.2	56	59	15ms
3511	181.224.227.2	56	60	15ms	3509	181.224.229.2	56	59	15ms
3512	181.224.227.2	56	60	15ms	3510	181.224.229.2	56	59	15ms
3513	181.224.227.2	56	60	15ms	3511	181.224.229.2	56	59	15ms
3514	181.224.227.2			tim...	3512	181.224.229.2			tim...
3515	181.224.227.2			tim...	3513	181.224.229.2			tim...
3516	181.224.227.2			tim...	3514	181.224.229.2			tim...
3517	181.224.227.2			tim...	3515	181.224.229.2			tim...
3518	181.224.227.2			tim...	3516	181.224.229.2			tim...
3519	181.224.227.2			tim...	3517	181.224.229.2			tim...
sent=3520 received=3502 packet-loss=0% min-rtt=14ms					3518 181.224.229.2 56 59 621ms				
avg-rtt=15ms max-rtt=894ms					3519 181.224.229.2 56 59 92ms				
SEQ	HOST	SIZE	TTL	TIME	STATUS	sent=3520 received=3500 packet-loss=0% min-rtt=14ms			
3520	181.224.227.2	56	60	979ms		avg-rtt=15ms max-rtt=621ms			
3521	181.224.227.2	56	60	113ms		SEQ	HOST	SIZE	TTL
3522	181.224.227.2	56	60	15ms		3520	181.224.229.2	56	59
3523	181.224.227.2	56	60	14ms		3521	181.224.229.2	56	59
Terminal					Terminal				
3505	8.8.8.8	56	118	45ms	3502	10.100.38.210	56	253	14ms
3506	8.8.8.8	56	118	45ms	3503	10.100.38.210	56	253	14ms
3507	8.8.8.8	56	118	45ms	3504	10.100.38.210	56	253	13ms
3508	8.8.8.8	56	118	45ms	3505	10.100.38.210	56	253	13ms
3509	8.8.8.8	56	118	45ms	3506	10.100.38.210	56	253	13ms
3510	8.8.8.8			tim...	3507	10.100.38.210	56	253	13ms
3511	8.8.8.8			tim...	3508	10.100.38.210	56	253	14ms
3512	8.8.8.8			tim...	3509	10.100.38.210	56	253	13ms
3513	8.8.8.8			tim...	3510	10.100.38.210	56	253	14ms

Soluciones de diagnóstico de fallas

Traceroute

Traceroute (Running)

Traceroute To:

Packet Size:

Timeout: ms

Protocol:

Port:

☐ Use DNS

Count:

Max Hops:

Src. Address:

Interface:

DSCP:

Routing Table:

Start

Stop

Close

New Window

Hop	/	Host	Loss	Sent	Last	Avg.	Best	Worst	Std. Dev.	History
1		10.100.248.1	0.0%	1554	0.6ms	0.7	0.4	9.5	0.8	
2		10.10.80.97	0.0%	1554	12.5ms	12.7	12.3	51.5	12.8	
3		10.100.38.210	3.5%	1554	12.4ms	12.5	12.3	18.6	12.4	
4		209.45.48.25	8.2%	1554	12.7ms	13.3	12.6	379.4	16.4	
5		10.10.50.105	4.7%	1554	12.9ms	13.2	12.7	191.8	13.4	
6		10.1.0.146	7.7%	1554	18.1ms	13.3	12.8	23.5	13.0	
7		10.100.1.154	7.6%	1554	13.6ms	15.8	13.1	113.0	17.2	

7 items

Soluciones de diagnóstico de fallas

Torch

Torch (Running)

- Basic

Interface:

Entry Timeout: s

- Collect

☒ Src. Address ☐ Src. Address6

☒ Dst. Address ☐ Dst. Address6

☐ MAC Protocol ☒ Port

☒ Protocol ☐ VLAN Id

☐ DSCP

- Filters

Src. Address:

Dst. Address:

Src. Address6:

Dst. Address6:

MAC Protocol:

Protocol:

Port:

VLAN Id:

DSCP:

Start

Stop

Close

New Window

Et...	Prot...	Src.	Dst.	VLAN Id	DSCP	Tx Rate	Rx Rate	Tx Pack...	Rx Pack...
800 (ip)	6 (tcp)	181.224.229.4:63681	200.1.183.110:8250			54.7 kbps	2.4 kbps	5	4
800 (ip)	6 (tcp)	172.217.3.78:443 (https)	200.1.183.110:55549			0 bps	0 bps	0	0
800 (ip)	6 (tcp)	172.217.3.78:443 (https)	200.1.183.110:56765			3.4 kbps	0 bps	1	0
800 (ip)	6 (tcp)	67.212.166.178:5310	200.1.183.110:51848			1296 bps	46.7 kbps	3	5
800 (ip)	6 (tcp)	172.217.2.78:443 (https)	200.1.183.110:52468			0 bps	0 bps	0	0
800 (ip)	6 (tcp)	157.240.14.52:443 (https)	200.1.183.110:62427			0 bps	0 bps	0	0
800 (ip)	6 (tcp)	157.240.14.53:443 (https)	200.1.183.110:38497			0 bps	0 bps	0	0
800 (ip)	6 (tcp)	208.80.54.71:443 (https)	200.1.183.110:50306			10.6 kbps	78.9 kbps	21	24
800 (ip)	6 (tcp)	172.217.3.78:443 (https)	200.1.183.110:51487			8.5 kbps	9.8 kbps	5	10
800 (ip)	6 (tcp)	172.217.2.206:443 (https)	200.1.183.110:58373			432 bps	2.5 kbps	1	1
800 (ip)	6 (tcp)	172.217.2.206:443 (https)	200.1.183.110:51041			432 bps	2.5 kbps	1	1
800 (ip)	50 (i...	181.65.245.209	200.1.183.110			1072 bps	1648 bps	1	1
800 (ip)	17 (...)	216.58.192.46:443 (https)	200.1.183.110:53602			0 bps	0 bps	0	0
800 (ip)	6 (tcp)	64.233.186.154:443 (https)	200.1.183.110:65274			0 bps	0 bps	0	0
800 (ip)	6 (tcp)	40.102.32.130:443 (https)	200.1.183.110:57525			0 bps	0 bps	0	0
82 items		Total Tx: 93.0 kbps	Total Rx: 164.9 kbps	Total Tx Packet: 55		Total Rx Packet: 65			

Soluciones de diagnóstico de fallas

Firewall

Firewall											
Filter Rules NAT Mangle Raw Service Ports Connections Address Lists Layer7 Protocols											
+ - ✓ ✗ 📁 🔍 ⏮ Reset Counters ⏮ Reset All Counters Find all ⌵											
#	Action	Chain	Src. Address	Dst. Address	Proto...	Src. Port	Dst. Port	In. Inter...	Out. Int...	Bytes	Packets
0	✗ drop	forward			6 (tcp)		3128			446.4 MiB	8 671 458
1	✗ drop	forward		172.17.0.0/...						50.7 MiB	491 947
2	✗ drop	forward			6 (tcp)		25			4504.5 KiB	77 235

Soluciones de diagnóstico de fallas

Wifi – Spectral Scan

AP Client <00:0C:42:D9:D2:63>

General 802.1x Signal Nstream NV2 Statistics

Last Activity: 0.000 s

Tx/Rx Signal Strength: -63/-63 dBm

Tx/Rx Signal Strength Ch0: -66/-68 dBm

Tx/Rx Signal Strength Ch1: -67/-66 dBm

Tx/Rx Signal Strength Ch2:

Signal To Noise: 46 dB

Tx/Rx CCQ: 84/58 %

P Throughput:

OK

Remove

Reset

Copy to Access List

Copy to Connect List

Ping

MAC Ping

Telnet

MAC Telnet

Torch

Signal ... Tx

24

OmniTik

Signal Strengths

	Rate	Strength	Last Measu... /
	6Mbps	-63	00:00:00
	HT40-0	-67	00:00:01.07
	HT40-2	-68	00:00:01.10
	HT40-3	-67	00:00:01.10
	HT40-1	-68	00:00:01.15
	HT20-2	-64	00:00:01.30
	HT20-1	-65	00:00:01.41
	HT20-0	-65	00:00:01.46
	HT20-3	-64	00:00:01.46

Equipos MikroTik mas usados

RB2011-UIAS-RM



RB3011-UIAS-RM



Nuevos Equipos MikroTik usados

RB4011iGS+RM



ALGUNOS CLIENTES





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