

Mist 運用マニュアル - WAN Assurance -WAN Edge Utilities - Testing Tools 実行手順

ジュニパーネットワークス株式会社 2025年1月 Ver 1.0





- ◆ 本マニュアルは、『WAN Edge Utilities Testing Tools 実行手順』について説明します
- ◆ 手順内容は 2025年1月 時点の Mist Cloud にて確認を実施しております 実際の画面と表示が異なる場合は以下のアップデート情報をご確認ください <u>https://www.juniper.net/documentation/us/en/software/mist/product-updates/</u>
- ◆ 設定内容やパラメータは導入する環境や構成によって異なります

各種設定内容の詳細は下記リンクよりご確認ください

https://www.juniper.net/documentation/product/us/en/mist/

- ◆ 他にも多数の Mist 日本語マニュアルを「ソリューション&テクニカル情報サイト」に掲載しております <u>https://www.juniper.net/jp/ja/local/solution-technical-information/mist.html</u>
- ☆本資料の内容は資料作成時点におけるものであり事前の通告無しに内容を変更する場合があります また本資料に記載された構成や機能を提供することを条件として購入することはできません



■運用ケース

- 各テストツールの実行
 - ping/traceroute
 - BGP
 - Bounce Port
 - FIB
 - DHCP Release \times
 - ARP \otimes
 - Application Path/Sessions 💥

※ SSR のみ





SSR



WAN Edges 一覧 > 選択

- 1. [WAN Edges] から [WAN Edges] をクリックします
- 2. [site] を選択、[List] をクリックし、WAN Edge 一覧から Utilities の Testing Tools を実行したい WAN Edge を選択します

Juniper Mist [®]	LIVE DEMO		Change language (en) 👻 WED 10:38 PM 🖉 🖓
🚯 Monitor	1 WAN Edges site sdwan_denver - List	Тороlоду	Inventory 🗮 🗘
⊞ Marvis™	100% Config Success 100% Version Compliance 100% WAN E	dge Uptime	
O Clients			
• Access Points	Name Status MAC □ + sdwan-denver Connected	Model Version To SSR 6.3.0-107.r1 S	pology Last Seen Insights poke Jan 8, 2025 10:38:42 PM WAN Edge Insights
Switches			
+ WAN Edges	WAN Edges		
Mist Edges			
√ Location			

Utilities

画面右上の [Utilities] から各操作を実行できます



NOTE

Testing Tools

[Utilities] から [Testing Tools] をクリックして、各ツールを実行できます

Utilities 🗸		
Testing Tools Send WAN Edge Log to Mist Reboot WAN Edge		
Upgrade Firmware	WAN Edge Testing Tools	×
Replace WAN Edge Sync Configuration	Utility Border Gateway Protocol Applications Ping WAN DHCP Release Bounce Port Clear BGP Summary Routes Advertised Routes Received Routes Path Sessions Address Resolution Protocol FIB FIB Lookup FIB By Application FIB By Application FIB By Application FIB By Application Select a node Implication Implication Implication Implication Implication Implication	
Cluster 構成の場合、 node を指定します	IP Address * Port Name * Count Size IP Address None 10 64 Ping	

Testing Tools > Utility > Ping

Ping を実行します

1

WAN Edge Testing Tools		×	
Utility	Border Gateway Protocol	Applications	
Ping WAN DHCP Release Bounce Port Traceroute	Clear BGP Summary Routes Advertised Routes Received	Routes Path Sessions	1 [Ping] をクリックします
Address Resolution Protocol FIB			
2 efresh ARP Table 3 FIB Lookup FIB By Applie	ation 4 5 6		2 [IP Address] を入力します
IP Address * Port Name *	Count Size		
8.8.8.8 ge-0/0/0 PING 8.8.8.8 56 bytes of data.	✓ 10 64 Ping		3 [Port Name] で ping を送出ポートを 選択します
Ping from 8.8.8.8 (8.8.8.8): icmp_seq=0 ttl=117 Ping from 8.8.8.8 (8.8.8.8): icmp_seq=1 ttl=117 Ping from 8.8.8.8 (8.8.8.8): icmp_seq=2 ttl=117 Ping from 8.8.8.8 (8.8.8.8): icmp_seq=3 ttl=117 Ping from 8.8.8.8 (8.8.8.8): icmp_seq=4 ttl=117	time=12.444ms time=13.764ms time=11.601ms time=11.937ms		4 [Count] を入力します (default: 10) ※ Optional
Ping from 8.8.8.8 (8.8.8.8): icmp_seq=5 ttl=117 Ping from 8.8.8.8 (8.8.8.8): icmp_seq=5 ttl=117 Ping from 8.8.8.8 (8.8.8.8): icmp_seq=6 ttl=117 Ping from 8.8.8.8 (8.8.8.8): icmp_seq=7 ttl=117	time=13.365ms time=13.478ms time=12.69ms		5 [Size] を入力します (default:64) ※ Optional
<pre>Ping from 8.8.8.6 (8.8.8.8): icmp_seq=8 ttl=17 Ping from 8.8.8.8 (8.8.8.8): icmp_seq=9 ttl=117 8.8.8.8 ping statistics 10 packets transmitted, 10 packets received, 0. round-trip min/avg/max/stddev = 11.601/12.951/1</pre>	11me=13.982ms 1 time=14.178ms 0% packet loss 4.178/0.921		6 [Ping] をクリックして、実行します

8

Testing Tools > Utility > WAN DHCP Release

DHCP リースをリリースします

WAN Edge Testing Tools					×		
Utility 1 Ping WAN DHCP Release Bounce Port Tracero	Border Gateway Protoco	Routes Advertised Routes	Received Routes	Applications Path Sessions		1 [WAN DHCP Release]	をクリックします
Address Resolution Protocol FIB 2 Refresh ARP Table FI 3 up FIB By A	plication		<u>.</u>			2 [Port Name] で DHCP ポートを選択します	リースをする
ge-0/0/0 V Release					_	3 [Release DHCP] をクリ します	ゆして実行
Releasing dhcp Successfully released DHCP lease.							



Testing Tools > Utility > Bounce Port

Bounce Port を実行します

WAN Edge Testing Too	×
Utility Border Gateway Protocol Applications	1 [Bounce Port] をクリックします
Ping WAN DHCP Release Bounce Port Traceroute Clear BGP Summary Routes Advertised Routes Received Routes Path Sessions	
Address Resolution Protocol FIB 2 tefresh ARP Table F 3 kup FIB By Application Port F 3 kup FIB By Application	2 [Port] でソフトバウンス(リセット)する ポートを選択します
ge-0/0/3 V Soft Bounce Port	3 [Soft Bounce Port] をクリックして 実行します
PESIIIT	
SUCCESS	
NOTE	
 ソフトバウンスは、一時 内部でのポートの状態 ソフトバウンスによって多く 	的にボートをタウンさせ、その後アップさせることにより機器 を変化させます 外部の物理リンクの状態が変更されることはありません
・ SSR に接続された機	器はリンクの状態変化を認識することはありません

Testing Tools > Utility > Traceroute

BETA

traceroute を実行します



Testing Tools > Border Gateway Protocol > Clear BGP

BGP セッションをクリアして、経路情報を更新します

WAN Edge Testing Tools	1	×	
Utility Ping WAN DHCP Release Bounce Port Tracero	Clear BGP Summary Routes Advertised Routes Received Routes	Applications Path Sessions	1 [Clear BGP] をクリックします
Address Resolution Protocol FIB Refresh ARP Table 3 B Lookup FIB By A Neighbor * Type 10.224.8.48 Hard Clear	VRF Clear BGP		 2 [Neighbor IP] で BGP ネイバーを 指定します 3 [Type] を選択します
Q Search RESULT Success	1 items	*	 Hard Clear Soft Clear In Soft Clear Out
			 4 [VRF] 名を入力します ※ Optional 5 [Clear BGP] をクリックして実行しま
4		▼ }	

Testing Tools > Border Gateway Protocol > Summary

BGP サマリ(要約)を表示します

Í	wan e	Edge Testing Tools				1								×		
	Utility				Border Gate	way Protocol				A	pplicatio	ons			_	
	Ping	WAN DHCP Release	Bounce Port	Traceroute	Clear BGP	Summary	Routes A	Advertised Routes	Receiv	ved Routes	Path	Sessions			1	[Summary] をクリックします
	Addres	ss Resolution Protocol	FIB													
2	Refree	sh ARP Table	FIB Lookup	FIB By Appli	ication										2	[Show Summary] をクリックして実行
Т	Sho	w Summary													_	します
														_		
	٩.	Search			1 items											
	TYPE	NAME				VRF NAME	INSTANCE LC	OCAL AS NEIGH	BOR	NEIGHBOR LOCA	LAS I	REMOTE AS	MESSAGES RI	-		
	SVR	020001c23771 (896	5a416b-a002-4	191-9b6f-d	la17574def59)	default	65000	10.22	4.8.48	65000	(65000	846			
	•												۱.	Y		

Testing Tools > Border Gateway Protocol >

Routes

BGP の経路情報を表示します

Utility Border Gatewa Protocol Applications Ping WAN DHCP Release Bounce Port Traceroute Clear BGP Summary Routes Advertised Routes Path Sessions Address Resolution Protocol FIB 2 ifresh ARP Table 3 B Lookup FIB By App Image Image Image Image Route Prefix VRF Show Routes Image Image Image Image Image Image	 [Routes] をクリックします [Route Prefix] を指定します ※Optional
Address Resolution Protocol FIB 2 fresh ARP Table 3 Boute Prefix VRF VRF Show Routes	2 [Route Prefix] を指定します ※Optional
	3 [VRF] 名を入力します
Q Search 7 items	*Optional
VRF NAMEPREFIXNAMEMETRICWEIGHTAS PATHLOCAL PREFERENCESTATUSSELEdefault0.0.0.0/002001c23771 (896a416b-a002-4191-9b6f-da17574def59)1000000100Valid, BestFirstdefault172.16.128.0/30020001c23771 (896a416b-a002-4191-9b6f-da17574def59)00100Valid, BestFirstdefault172.26.128.0/30020001c23771 (896a416b-a002-4191-9b6f-da17574def59)00100Valid, BestFirstdefault192.168.63.0/24020001c23771 (896a416b-a002-4191-9b6f-da17574def59)00100Valid, BestFirstdefault192.168.64.0/24020001c23771 (896a416b-a002-4191-9b6f-da17574def59)00100Valid, BestFirstdefault192.168.65.0/24020001c23771 (896a416b-a002-4191-9b6f-da17574def59)032768100Valid, BestFirstdefault192.168.65.0/24Valid, BestFirst032768100Valid, BestFirstdefault192.168.65.0/24Valid, BestFirst032768100Valid, BestFirst	4 [Show Routes] をクリックして実行 します

Testing Tools > Border Gateway Protocol > Advertised Routes

BGP ネイバーへ通知している BGP 経路情報を表示します

WAN E	dge Testing Tools					1					×	<	
Utility				Border Gateway P	rotocol	_				Applications	_		
Ping	WAN DHCP Release	Bounce Port Trac	eroute	Clear BGP Sun	nmary Rou	tes Advert	tised Route	s Receive	ed Routes	Path Sessions		1	「Advertised Routes] をクリックします
Address	Resolution Protocol	FIB											
2 s	h ARP Table	3 Lookup FIB E	By Appli	4								2	「Neighbor IP]で BGP ネイバーを
Neigh	bor IP *	VRF			1								指定します
10.2	24.8.48	VRF		Show Routes									
												3	[VRF] 名を入力します
4 5	earch		2	litems									*Optional
VRF NA	ME ADDRESS FAMILY	PREFIX	NAME	LOCAL ROUTER ID	LOCAL AS	NEXTHOP	METRIC	WEIGHT	AS PATH	LOCAL PREFERENCE	STATUS	4	「Show Routes] をクリックして実行
derau	t IPV4 Unicast	192.168.64.0/24		10.224.8.16	65000	0.0.0.0	0	32768		100	valid, Best		します
defau	t IPv4 Unicast	192.168.65.0/24		10.224.8.16	65000	0.0.0.0	0	32768		100	Valid, Best		
											-		
•											Þ		

Testing Tools > Border Gateway Protocol > Received Routes

BGP ネイバーから受信した BGP 経路情報を表示します

WAN Ed	ge Testing Tools							1			×
Utility				Border Gatev	way Protoco				Applicatio	ons	
Ping	WAN DHCP Release	Bounce Port Trace	eroute	Clear BGP	Summary	Routes	Advertised Routes	Received Routes	Path	Sessions	
Address R	esolution Protocol	FIB									
2 efresh /	ARP Table	B Lookup FIB B	By Applic	4							
Neighbo	or IP *	VRF	_	_							
10.224	.8.48	VRF		Show Rout	tes						
Q Sea	arch		7	items							
VRF NAME	ADDRESS FAMILY	PREFIX	NAME					LOCAL ROUTER ID	LOCAL AS	NEXTHOP	
default	IPv4 Unicast	0.0.0/0	020001	1c23771 (896	5a416b-a00	2-4191-9	b6f-da17574def59) 10.224.8.16	65000	10.224.8.48	10000
default	IPv4 Unicast	172.16.128.0/30	020001	1c23771 (896	5a416b-a00	2-4191-9	b6f-da17574def59) 10.224.8.16	65000	10.224.8.48	0
default	IPv4 Unicast	172.26.128.0/30	020001	1c23771 (896	5a416b-a00	2-4191-9	b6f-da17574def59) 10.224.8.16	65000	10.224.8.48	0
default	IPv4 Unicast	192.168.63.0/24	020001	1c23771 (896	5a416b-a00	2-4191-9	b6f-da17574def59) 10.224.8.16	65000	10.224.8.48	0
default	IPv4 Unicast	192.168.64.0/24	020001	1c23771 (896	5a416b-a00	2-4191-9	b6f-da17574def59) 10.224.8.16	65000	10.224.8.48	0
default	IPv4 Unicast	192.168.65.0/24	020001	1c23771 (896	5a416b-a00	2-4191-9	b6f-da17574def59) 10.224.8.16	65000	10.224.8.48	0
default	IPv4 Unicast	192.168.66.0/24	020001	1c23771 (896	5a416b-a00	2-4191-9	b6f-da17574def59) 10.224.8.16	65000	10.224.8.48	0
•											► I

Testing Tools > Applications > Path



指定したアプリケーションの経路を表示します

Utility Ping WAN DHCP Release Address Resolution Protocol I Addresh ARP Table	Bounce Port Traceroute	Border Gatev	Summary Routes Advertised Routes Received	d Routes	Applica Path	tions Sessions		
Ping WAN DHCP Release Address Resolution Protocol Address Resolution Protocol Refresh ARP Table	Bounce Port Traceroute	Clear BGP	Summary Routes Advertised Routes Received	d Routes	Path	Sessions		
Address Resolution Protocol	FIB Lookup							
Refresh ARP Table	FIB Lookup							
		lication						
Application Name *	_							
Boston-lan1	∽ Show I	Path						
Q Search		4 items						
SERVICE < TYPE	DESTINATION NEXT-H	OP INTERFACE	VECTOR	COST	RATE	CAPACITY	STATE	MI 🔶
Boston-lan1 bgp-over-svr	3.3.3.127/32 3.3.3.1	27 ge-0/0/2	BostonDC_HA-boston-broadband2.OrgOverla	y never	0	0/unlimited	Up	Ye
Boston-lan1 bgp-over-svr	3.3.3.128/32 3.3.3.1	28 ge-0/0/2	BostonDC_HA-boston-broadband.OrgOverlay	30	0	0/unlimited	Up	Ye
Boston-lan1 bgp-over-svr	10.0.128.5/32 10.0.1	28.5 ge-0/0/3	BostonDC_HA-boston-mpls2.OrgOverlay	20	0	0/unlimited	Up	Yε

Testing Tools > Applications >

Sessions

指定したアプリケーションのセッション情報を表示します

WAN	Edge Testing Tools											×
Jtility	r			Bor	der Gatewa	y Protocol				Applicatio	ns	
Ping	WAN DHCP Release	Bounce Port	Tracerou	ute C	lear BGP	Summary	Routes	Advertised Rou	tes Received Routes	Path	Sessions	
ddre	ess Resolution Protocol	FIB										
Refr	esh ARP Table	FIB Lookup	2 (A	pplication								
Applic	cation Name *		3		4							
Inte	ernet	~	Show	v Sessions	Del	ete All Sessi	ons					
٩	Search			10 ite	ms						Delete Selec	ted
	SESSION ID		*	DIRECTIO	N SERVICE	TENANT	D	DEVICE INTERFACE	NETWORK INTERFACE	PROTOCOL	SOURCE IP	SOUI ^
	1218f24f-ebda-4774	-98e1-9e58305	5bf91d	forward	Intern	et alaska-la	an2 g	ge-0/0/2	ge-0/0/2	UDP	192.168.71.2	123
	1218f24f-ebda-4774	-98e1-9e58305	5bf91d	reverse	Intern	et alaska-la	an2 g	ge-0/0/3	ge-0/0/3	UDP	3.3.3.128	166
	32bf8a7c-2a64-4276	-b4ad-9a51b7	795888	forward	Intern	et alaska-la	an2 g	ge-0/0/2	ge-0/0/2	ТСР	192.168.71.5	487
	32bf8a7c-2a64-4276	-b4ad-9a51b7	795888	reverse	Intern	et alaska-la	an2 g	ge-0/0/3	ge-0/0/3	ТСР	3.3.3.128	167
	55e2e577-0085-4164	4-b32c-025d87	e9b5e9	forward	Intern	et alaska-la	an2 g	ge-0/0/2	ge-0/0/2	UDP	192.168.71.2	123
	55e2e577-0085-4164	4-b32c-025d87	e9b5e9	reverse	Intern	et alaska-la	an2 g	ge-0/0/3	ge-0/0/3	UDP	3.3.3.128	166
	62a525c5-4675-4089	9-aea0-4f77857	741009	forward	Intern	et alaska-la	an2 g	ge-0/0/2	ge-0/0/2	UDP	192.168.71.2	123
	62a525c5-4675-4089	9-aea0-4f77857	741009	reverse	Intern	et alaska-la	an2 g	ge-0/0/3	ge-0/0/3	UDP	3.3.3.128	166
	83649387-21f6-43b9)-aa3f-6ff3f0ae	de4b	forward	Intern	et alaska-la	an2 g	ge-0/0/2	ge-0/0/2	UDP	192.168.71.2	123
	83649387-21f6-43b9)-aa3f-6ff3f0ae	de4b	reverse	Intern	et alaska-la	an2 g	ge-0/0/3	ge-0/0/3	UDP	3.3.3.128	166
•												•

- [Sessions] をクリックします
- 2 [Application Name] でアプリケーションを選択 します
- 3 [Show Sessions] をクリックしてセッション情報を 表示します
- [Delete All Sessions] をクリックします
 確認画面(Confirm Delete) が表示され、
 [Delete] でセッションを削除できます

Confirm Delete	×
Are you sure you want to delete all sessions for the application "Internet"?	
Delete Cancel	

Testing Tools > Address Resolution Protocol > Refresh ARP

ARP 情報をリフレッシュします

	WAN Ed	ge Testing Tools										×		
	Utility				Border Gate	vay Protocol				Applicati	ons		1	「Refresh ΔRP] をクリックします
1	Ping	WAN DHCP Release	Bounce Port	Traceroute	Clear BGP	Summary	Routes	Advertised Routes	Received Routes	Path	Sessions		-	
	Address F Refresh	Resolution Protocol ARP Table	FIB 3 P	FIB 4 plica	tion	5							2	[Port Name] で ARP をリフレッシュする ポートを選択します
2	ge-0/0/	/2	✓ VLAN	I IP		Re	fresh ARP						3	[VLAN] を指定します ※ Optional
	RESULT	sarch		1	items							•	4	[IP Address] を入力します ※ Optional
													5	[Refresh ARP] をクリックして実行 します
	4											×		

Testing Tools > Address Resolution Protocol > Table

ARP テーブルを表示します

NAN Edge Testing Tools					×	
Jtility		Border Gateway Protocol		Applications		
Ping 1 HCP Release Bounce F	Port Traceroute	Clear BGP Summary	Routes Advertised Routes Received Route	Path Sessions		1 [Table] をクリックします
Address Resolution Protocol FIB					- 1	
Refresh ARP Table FIB Look	Kup FIB By Applicat	ion				2 [Show ARP] で ARP テーブ
Show ARP						表示します
					- 1	
Q Search	3	items				
	VIAN		DESTINATION MAC	STATE		
	VLAN	102 169 71 2	00:50:56:bascardd	Valid		
ge-0/0/2	0	192.100.71.2	00.50.50.be.ce.uu	Valid	- 11	
ge-0/0/2	0	192.168.71.5	5c:5b:35:cf:3a:b5	Valid	- 11	
ge-0/0/3	0	6.6.6.1	00:50:56:be:80:e2	Valid		
					T	

Testing Tools > FIB > FIB Lookup

FIB Lookup(検索) します

WAN E	dge ⁻	Testin	g Tools										×		
Utility						Border (Gateway Protocol				Applica	tions		1	[FIB Lookup] をクリックします
Ping	WAI	N DHCP	Release 1	ounce Port	Traceroute	Clear B	GP Summary	Routes	Advertised Rou	tes Received Routes	Path	Sessions			
Address	Reso	olution F	Protocol FIE	IB Lookup	FIB By Appli	cation								2	[Network] を選択します
Network	k *			Destina	ation IP *		Destination Por	t*	Protocol	*					
alaska	a-lan		×	/ 8.8.8	3.8		0		ICMP	×	~ L	ookup		3	[Destination IP] を指定します
2				3			4		5		6				
a Se	earch	n				1 items								4	[Destination Port] を指定しま9
IPPREFIX	X	PORT	PROTOCOL	TENANT	VRF	SERVICE	NEXT HOP INTERF	ACE NEX	T HOP IP VE	TOR			COST ^	5	「Protocol] を選択します
0.0.0.0)/0	0	None	alaska-la	in default	Internet	ge-0/0/3	3.3.	.3.128 Bo	stonDC_HA-boston-	broadband	l.OrgOverlay	1	-	
															□ ICMP
															TCP
															UDP
•													+	6	[Lookup] をクリックします

Testing Tools > FIB > FIB By Application

アプリケーション毎の FIB を表示します

VAN Edge Testir	ng Tools										
Itility				Border (Gateway Proto	col			Applicat	tions	
Ping WAN DHCF	Release	Bounce Po	1 raceroute	Clear E	3GP Summar	y Routes A	Advertised Routes	Received Routes	Path	Sessions	
ddress Resolution	Protocol	FIB									
Refresh ARP Tab	ole	FIB Lookup	FIB By Applic	ation							
pplication *		VRF			Prefix						
Boston-lan1	×	~					Show FIB				
2					4						
Search		3		10 items	4		5				
IPPREFIX	PORT	PROTOCOL	TENANT	VRF	SERVICE	NEXT HOP INTER	RFACE NEXT HOP	IP VECTOR			
172.16.128.0/30	0	ICMP	alaska-lan	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	0	ICMP	alaska-lan2	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	0	GRE	alaska-lan	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	0	GRE	alaska-lan2	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	0	ESP	alaska-lan	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	0	ESP	alaska-lan2	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	1-65535	ТСР	alaska-lan	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	1-65535	ТСР	alaska-lan2	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	1-65535	UDP	alaska-lan	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
172.16.128.0/30	1-65535	UDP	alaska-lan2	default	Boston-lan1	ge-0/0/3	3.3.3.128	BostonDC_H	A-bostor	n-broadband.Org	gOverla
4											Þ



[VRF] を指定します ※ Optional

3

4 [Prefix] を指定します (IP Addr/mask) ※ Optional









WAN Edges 一覧 > 選択

- 1. [WAN Edges] から [WAN Edges] をクリックします
- 2. [site] を選択、[List] をクリックし、WAN Edge 一覧から Utilities の Testing Tools を実行したい WAN Edge を選択します

Juniper Mist [®]	-	LIVE DEMO ← FRI 10:59 PM 으 ♀ ?										9 ?		
↔ Monitor	1	1 WAN Edges site spoke1-site ▼ List Topology Claim WAN Edges = C									ges 🚊 🗘			
⊞ Marvis™		00%	Config Success	100% Version	n Compliance	100% WAN Edge Uptime								
O Clients														
• Access Points			Name + Spoke1	Status Connected	MAC	192.168.173.102	Wodel VSRX3	21.4R1.12	Topology	not on floorplan	Optime 11h 17m	Managed	WAN Edge Insights	Errors
Switches			_											
+ WAN Edges	WAN	Edges												
Mist Edges			_											
✓ Location														

Utilities

Utilities 🗸

画面右上の [Utilities] から各操作を実行できます

NOTE

構成・環境により表示メニューが異なります(HA 構成など)

	1	
Testing Tools	•	ping/traceroute/Bounce Port/BGP/FIB を実行します
Remote Shell	•	Remote Shell を起動します(ブラウザ上で CLI コマンドの実行が可能です)
Send WAN Edge Log to Mist	•	WAN Edge のログを Mist に送信します
Download Junos Config	•	Junos の config(設定ファイル) をダウンロードします
Reboot WAN Edge	•	WAN Edge を再起動します
Upgrade Firmware	•	ファームウェアのアップグレードを実行します
Snapshot Device	•	Snapshot を取得します
Replace WAN Edge	•	WAN Edge の交換(設定移行)を実行します
Sync Configuration	•	手動でした設定を Mist Cloud で定義された設定で上書きします

Testing Tools

[Utilities] から [Testing Tools] をクリックして、各ツールを実行できます

Utilities 🗸	WAN Edge Testing Tools							
	Ping Traceroute	Bounce Port	Show BGP Summary	Show Routes	Show BGP Received Routes	Show BGP Advertised Routes	Clear BGP	Show FIB
Testing Tools	Hostname required	10						
Remote Shell								
Send WAN Edge Log to Mist								
Download Junos Config								
Reboot WAN Edge								
Upgrade Firmware								
Snapshot Device								
Replace WAN Edge								
Sync Configuration								

26

Testing Tools >

Ping

Ping を実行します



Testing Tools > Traceroute

traceroute(UDP) を実行します



Testing Tools > Traceroute

traceroute(ICMP) を実行します



Testing Tools > Bounce Port

Bounce Port を実行します



Testing Tools > Show BGP Summary

BGP サマリ(要約)を表示します

WAN Edge Testing Tools			×	
Ping Traceroute Bounce Port Show BGP Summary	Show Routes Show BGP Received Routes	Show BGP Advertised Routes Clear B	3GP Show FIB	
Show BGP Summary				1 [Show BGP Summary] をクリック します
Show BGP Summary		Jan 17, 2	025 5:35:59 PM	
Threading mode: BGP I/O Default eBGP mode: advertise - accept, receive - accept Groups: 1 Peers: 2 Down peers: 0 Unconfigured peers: 2				2 [Show BGP Summary] をクリックして 実行します
Peer AS InPkt OutPkt Out 100.101.0.1 65000 32 32	Q Flaps Last Up/Dwn State #Active/Receiv O 0 12:43 Establ	ed/Accepted/Damped		
vpn_orgoverlay.inet.0: 1/1/1/0 100.101.0.2 65000 32 32 vpn_orgoverlay.inet.0: 1/1/1/0	0 0 12:46 Establ			
vpn_orgovertay. Thet. 0. 1/1/1/0				

Testing Tools > Show Routes

BGP の経路情報を表示します

N Edge Testing 1	ools		1				
ing Tracero	ute Bounce P	Show BGP Summary	Show Routes	Show BGP Received Routes	Show BGP Advertised Routes	Clear BGP	Show F
ute Prefix		/RF					
loute Prefix		VRF]				
Show Routes							
Show Routes					Jan	17, 2025 5:3	6:37 PM
inet.0: 5 destin	ations, 5 routes (5 active, O holddown, () hidden)				
mgmt_junos.inet.	0: 2 destinations,	2 routes (2 active, 0	holddown, O hidd	len)			
INET.inet.0: 14	destinations, 14 r	outes (14 active, O hol	ddown, O hidden)				
MPLS.inet.0: 15	destinations, 15 r	outes (15 active, O hol	ddown, O hidden)				
lan.inet.0: 6 de + = Active Route	stinations, 6 rout , - = Last Active,	es (6 active, 0 holddow * = Both	vn, O hidden)				
10.88.88.0/24	*[BGP/170] 00:1	3:21, localpref 100, fr	rom 100.101.0.1				
	> to 100.66.0	.2 via st0.0					
10.99.99.0/24	*LBGP/170] 00:1 AS path: I,	3:24, localpref 100, fr validation-state: unver	rom 100.101.0.2 rified				
	to 100.66.0 > to 100.67.0	.3 via st0.0 .3 via st0.4					
vpn_OrgOverlay. + = Active Route	net.O: 25 destinat , - = Last Active,	ions, 25 routes (25 act * = Both	ive, O holddown,	0 hidden)			
10.88.88.0/24	*[BGP/170] 00:1 AS path: I,	3:21, localpref 100, fr validation-state: unver	rom 100.101.0.1 ified				
10 00 00 0/24	> to 100.66.0	.2 via st0.0 2:24 localprof 100 fi	om 100 101 0 2				

[Show Routes] をクリックします

- 2 [Route Prefix] を指定します ※Optional
- 3 [VRF] 名を入力します ※Optional

Testing Tools > Show Received Routes

BGP ネイバーから受信した BGP 経路情報を表示します

[Show Received Routes] を クリックします

- 2 [Neighbor] で BGP ネイバーを 指定します
- [VRF] を入力します ※Optional

[Show BGP Received Routes] を クリックして実行します

Testing Tools > Show BGP Advertised Routes

BGP ネイバーへ通知している BGP 経路情報を表示します

[Show BGP Advertised Routes] & クリックします

- [Neighbor] で BGP ネイバーを 指定します
- [VRF] を入力します 3 **%Optional**

[Show BGP Advertised Routes] & クリックして実行します

Testing Tools > Clear BGP

BGP セッションをクリアして、経路情報を更新します

	_	×		
4 ow Routes Show BGP Received Routes	Show BGP Advertised Routes Clear BGP	Show FIB		
VRF		1	[Clear BGP] を	クリックします
VRF				
		2	[Neighbor IP]	で BGP ネイバーを
	Jan 17, 2025 5;	:40:44 PM	指定します	
		3	[Type] を選択し	ます
			Hard Clear	
			Soft Clear In	
			□ Soft Clear Out	:
		4	[VRF] 名を入力	します
			※ Optional	
		5	[Clear BGP] 청	をクリックして実行します
	luningr Busingss Lise Only			
	Image: constraint of the section of the	Image: A constraint of the property of the prop	Image: Show BGP Received Routes Show BGP Advertised Routes Clear BGP Show FiB I VF Image: Show SGP Advertised Routes Image: Show SGP Advertised Routes Image: Show SGP I VF Image: Show SGP Advertised Routes Image: Show SGP Advertised Routes Image: Show SGP Advertised Routes Image: Show SGP VF Image: Show SGP Advertised Routes Image: Show SGP A	A we know BGP Received Routes Show BGP Advertised Routes Clear BGP Show FIB VIF Jan 17, 2023 5:40:44 FV Jan 17, 2023 FV Jan

Testing Tools > Show FIB

FIB を表示します

WAN Edge Testing Tools	how BGP Summary 4 Routes Show BGP Received Routes	Show BGP Advertised Routes Clear BGP Show FIB	1 [Show FIB] をクリックします
VRF Prefix VRF Prefix	Show FIB		2 [VRF] を入力します ※ Optional
Show FIB Routing table: default.inet Internet: Destination Type RtRef Next hop default user 1 52:54:0:0	Type Index NhRef Netif 3:2f:b6 ucst 698 8 ge-0/0/0.0	Jan 17, 2025 5:38:44 PM	3 [Prefix] を入力します ※ Optional
default perm 0 0.0.0/32 perm 0 100.99.255.2/32 user 0 100.100.0.3/32 intf 0 192.168.190.254/32 user 0 192.168.190.254/32 user 0	rjct 36 1 dscd 34 2 dscd 34 2 .3 locl 707 1 90.254 locl 701 3 11.254 locl 666 3		4 [Show FIB] をクリックします
192. 108. 191. 234/32 User 0 192. 108. 1 224. 0. 0. 0/4 perm 0 224. 0. 0. 1/32 perm 0 255. 255. 255. 255/32 perm 0	mdsc 35 1 mcst 31 1 bcst 32 1		
Notifing table: pre_privateinet Internet: Destination Destination Type RtRef Next hop default perm 0.0.0.0/32 perm 224.0.0.0/4 perm 224.0.0.1/32 perm 255.255.255.255/32 perm 0 0	Type Index NhRef Netif dscd 518 2 dscd 518 2 mdsc 519 1 mcst 522 1 bcst 523 1		
Routing table:master.anoninet Internet: Destination Type RtRef Next hop default perm 0 0.0.0.0/32 perm 0	Type Index NhRef Netif rjct 529 1 dscd 527 1	•	

Thank you

JUNPER .