

Paragon Active Assurance Junosベースの試験設定手順

ジュニパーネットワークス株式会社

2023/05/10



Junos UDP, TCP, ICMP, TWAMP, HTTP (RPM)事前設定

- 最低でも1つ、RPMを有効にしている機器と通信ができる<u>Test Agent Applicationをインストール</u> ※Test Agent ApplianceはRPMに対応していないので注意
- Junos機器側でPAAから接続する際に使用するユーザー、パスワードを設定
- Junos機器側にNetconfを設定 set system services netconf ssh



Junos UDP, TCP, ICMP, TWAMP, HTTP (RPM)事前設定

· PAAIC	ネットワ	フーク機器を登録			ADD OBJECT	×
$= \text{Paragon active assurance} \qquad \qquad \textbf{Demo} \lor \textbf{Q} \textcircled{0} \textbf{M}$					Name: 🚺	R1
🖒 Dashboard	ings				Host: 🚺	192.168.1.1
û Alarms ŝΞ Tests ✓	d change user	IPTV channels Modify IPTV channel list.	Speedtest Customize your page and modify categories.	SLA Change default SLA values.	Port: ()	830 デフォルト: 830
Monitoring	gs.	Report logo Change logo to be used in your reports.	SIP accounts Edit SIP accounts.	Network device Edit network device.	Password: ()	······
Accounts Accounts	e items	Y.1731 Edit Y.1731 MEPs.	TWAMP Edit TWAMP reflectors.	Ping Edit Ping hosts.	Device type: 🚺	Junos 🗸
	a ens Pl tokens.	Test Agent Registration users Add a Test Agent Registration user				
Account / Network devices Network device						
© 2022 Juniper Networks	ŝ	+ + + ← CSVでImport	, Exportが可能	Public	Clear	

Junos UDP(RPM)

1. Junos機器1にRPM UDPを設定

set services rpm probe <owner name> test <test name> test-interval <seconds>、 set services rpm probe paa test udp test-interval 60 60秒間隔のテスト

set services rpm probe <owner name> test <test name> history-size <number> 例) set services rpm probe paa test udp history-size 12 "show services rpm history-results..." で12個の結果まで保存、表示 set services rpm probe <owner name> test <test name> probe-count <number>

例) set services rpm probe paa test udp probe-count 121 つのテストで12 probeを出す

set services rpm probe <owner name> test <test name> probe-interval <seconds> 例) set services rpm probe paa test udp probe-interval 5 5秒間隔でprobeを出す

set services rpm probe <owner name> test <test name> probe-type udp-ping

例) set services rpm probe paa test udp probe-type udp-ping

set services rpm probe <owner name> test <test name> target address <receiver ip address> 例) set services rpm probe paa test udp target address 192.168.4.1

set services rpm probe <owner name> test <test name> destination-port <receiver port number> 例) set services rpm probe paa test udp destination-port 51000

2. 対向側のJunos機器2にRPM receiverを設定

set services rpm probe-server udp port <port number> Junos機器1の"destination-port"と同じポート 例) set services rpm probe-server udp port 51000

3. probeの確認

show services rpm probe-results show services rpm history-results brief owner paa © 2022 Juniper Networks Test Agentは5秒間隔で測定情報の取得を行うので最低でも1分間 Junos機器側で測定情報を保有する設定を行う事が推奨



Junos UDP(RPM)

4. PAA Control CenterでJunos UDPを設定し、"Start"

New monitoring group		Start Create template				
Name: Junos UI	Db.	Add new alarm				
Description:						
Junos UDP						
)	Add Parallel					
∽ General		In this task, a Test Agent connects to one or several lungs devices via the NETCONE protocol and collects measurements from LIDP sessions running on these devices. The Test Agent then				
Client 🚺	Select interface	evaluates errored second thresholds and reports all results back to Control Center. RPMを集計するTest Agentのインターフェース				
Network devices	Select network devices	事前設定で登録したNetwork Device				
Filter based on owner 🚺	paa	項番 1 で設定したprobe owner名				
Filter test session 🚺	udp	項番 1 で設定したtest名				
\checkmark Thresholds for errored se	econds (ES)					
RTT threshold (ms) 🚺	100	Round-trip timeに対する閾値				
Jitter threshold (ms) 🚺	100	ジッターに対する閾値				
\sim Advanced						
Result interval (s) 🚺	1					
\checkmark SLA thresholds						
Good SLA (%) 🚺	99.95	● Good SLAとするパーセンテージの閾値				
Acceptable SLA (%) 🚺	99.5	Acceptable SLAとするパーセンテージの閾値				
© 2022 Juniper Networks		Juniner Public				



