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Application Guide Wedora Cloud-IPFix Test-Hongdian Router



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Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details					
V1.0	M2M Cloud Platform	2017.09.30	First Release					
	Hongdian Router							

1 Overview

The IPFIX (IP Flow Information Export) is a optional function for Wedora platform.

This article shows you how test the IPFIX on Wedora cloud. Please make sure the platform has supported the IPFIX function, and the Hongdian router of your hand has supported IPFIX configuration.

2 Description

Note: please synchronize the time of the router to real time at first.

2.1 Setup IPFix Parameter

Login to router CLI, and setup parameter as below:

```
router#
router#
router# config t
router(config)#
router(config)# service ipfix
router(config-ipfix)#
router(config-ipfix)# collector address 47.88.149.108
router(config-ipfix)#
router(config-ipfix)# collector port 10086
router(config-ipfix)#
router(config-ipfix)# probe br0
router(config-ipfix)#
router(config-ipfix)# export interval 10
router(config-ipfix)#
router(config-ipfix)# odid 2
router(config-ipfix)#
router(config-ipfix)#wr
Configuration saved to /tmp/hdconfig/cli.conf
```

Result:

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interface wlan_ac mode ap ssid admin channel 100 shutdown

service ipfix collector address 47.88.149.108 collector port 10086 probe brØ export interval 10 odid 2

. service mc

t t end

router#

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Enable IPFix feature

service ipfix collector address 47.88.149.108 collector port 10086 probe br0 export interval 20 odid 2 no shutdown

Disable IPFix feature

service ipfix shutdown

After IPFix is enabled, the function will run in the device, and send recorded information to the platform.

2.2 Check the captured information.

After setup, wait for 10 minutes. Then go to platform to check netflow information records:

	All groups Default Group (22) DCS Test (0) Test (3) NOC (3) Test (1)											
Personal panel												
👳 Monitor 🛛 🗸	Terminal SN 🔻 🛛 🔍 🖌 Export Operate -		Online OfflineLaunch cou									
i≣ Monitor list	Status Terminal SN Exp box No Group Termina	al reboot type Net delay Last interaction Online toda	y Month data ICCID									
Terminal manage	Image: Signature Signature Signature Parameter Image: Signature Signature Default Gr Termina	al export CED 2017-09-15 18: <u>16Hour11mir</u>	<u>1 OB</u>									
/// Offline terminal	■ 🔽(0) <u>51R1702HH1400243</u> Test 1 Check f	files 2017-09-15 18: <u>1Hour32minu</u>	<u>rte 200.334MB</u>									
🚯 Map view	■ 🔟 (26) 21R1606LL2400431 Default Gr Termine	al update 2017-09-15 18: <u>18Hour0minu</u>	<u></u>									
	2(5) 58R201703DB88888 Default Gr Data ca	ersion timeout 2017-09-15 18: <u>18Hour0minu</u>	<u>rte 478.309KB</u> 89860117851015									
	2SR1701FF1311706 Default Gr 2 Data ca	apture 2017-09-15 18: <u>4Hour23minu</u>	<u>ite 20.059MB</u>									
🗐 Task 🧹	□ 2(23) 20R1606LL1500026 Default Gr 1 Networ	rk detect <u>MA</u> 2017-09-15 18: <u>18Hour0minu</u>	<u>ite 34.168MB</u> 89886015537602									
System <	22R1606HH0600516 NOC 1 Param 0	compare 2017-09-15 18: <u>18Hour0minu</u>	<u>.te 294.435MB</u> 89919217989318									
	■ 100 2SR1701HH1800008 NOC Param r	recovery <u>VED</u> 2017-09-15 18: <u>9Hour19minu</u>	<u>ite OB</u>									
	✓ 2(30) 2SR201611SL30002 Default Gr Timed k	backup 0Hour39minu	<u>ite 6.875MB</u> 89860116851117									
	□ 109.84.1.2 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	209 WCDMA 2017-08-18 20:	<u>OB</u> 89492099156051									
	■ <u>#(0)</u> <u>H7118ABCDEF12000</u> Default_G <u>112.97.61.</u>	.219 LTE 2017-07-14 09:	<u>OB</u> 89860116851074									
	Image: Signature Signature	<u></u> 2017-09-15 14:	<u>5.232KB</u>									

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Menu collapse 34 All account Default Group (22) DCS Text (0) Text (3) NOC (3) Text1 (1)											
Personal panel											
👳 Monitor 🛛 🗸	Terminal SN * Q Second Operate Online Offline -Launch count-										
i≣ Monitor list	Status Terminal SN Exp box No Group IP Net type Net delay Last interaction Online today Month data ICCID										
Terminal manage	Image: Default Gr 39.89.242.234 WIRED 2017-09-15 18: 16Hour11min 0B										
III Offline terminal	□ 10 5181702HH1400243 Test 15810698.166 2017-09-1518 1Hour32minute 200.334MB										
Map view	Data capture export(25R2016115L30002) 9-15 18 <u>18Hour0minute</u> 259.606MB 89912000500166										
A Operation <	Image: State of the s										
	Image: Status: 9-15 18: 4Hour23minute 20.059MB										
Task <	Tip: 2081605L1500026 D SN: 2SR201611S130002 9-1518 18Hour0minute 34,168MB 89886015537602										
System <	Image: Target IP: 9-15 18 18HourOminute 294.435MB 89919217989318										
	□ 10 25R1701HH1800008 Usage (2017-09-16) 9-15 18 9Hour19minute 08										
	∞ I(30) 2SR2016115130002 D period: 201709-15 6.875MB 89860116851117										
	E T(0) 51R1612512801001 D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
	■ <u>4(0)</u> H7118ABCDEF12000 D < Sep ▼ 12017▼ 0 Cet ▼ 12017 → 08 89860116851074										
	Test 219.147.231 219.147.231 21 9.0 9.0 31 1 2 2 4.25 27 29 30 30 5 5.232KB										
	a(0) 10C2015025G27306 Default_G 112.96.179.2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 08 89860116265101										
	Default_G 10 11 12 13 14 15 16 8 9 10 11 12 13 14 08										
	2R2(0) 22R201703D827114 Test 112.97.195.1 17 18 19 20 21 22 23 15 16 17 18 19 20 21 08 89860116851117										

Click button "Export"

Monitor	~	Те	rminal SN	v	Q ~	Export	Operat	te +			
Monitor list			Status	Terminal SN	Exp box No	Group	IF	•	Net type	Net delay	Last interaction
Terminal mai	nage		2 (0)	51R1605HH1302000	D	efault Gr	<u>39.89.2</u>	42.234	WIRED		2017-09-15 18:
Offline termir	nal		2 (0)	51R1702HH1400243		Test	<u>158.106</u>	.98.166			2017-09-15 18:
Map view			2(26)	21R1606LL2400431	D	Data capt	ure expo	rt(2SR201	511SL30002)		× 9-15 18:
vration			2 (5)	58R201703DB888888	D	Ana	lyse [Data analys	e is off		9-15 18:
erauon			2 (0)	2SR1701FF1311706	D	sta	itus:				9-15 18:
k	<		2(23)	20R1606LL1500026	D		SN:	2SR201611	SL30002		9-15 18:
em	<		2(19)	22R1606HH0600516		Targe	t IP:				9-15 18:
			2(0)	2SR1701HH1800008		He	-		09-15 ~ 2017-	09-16	9-15 18:
		۲	2 (30)	2SR201611SL30002	D	per	iod:	2017	05 15 2017	05 10	9-15 18:
			쾨(0)	51R1612SL2801001	D					Export	ancel 8-18 20:
			<u>(0)</u>	H7118ABCDEF12000	D					Export	7-14 09:
			킲(0)	51R201510ZH26002		Test	219.147	.23.114			2017-09-15 14:
			<u>====(0)</u>	10C201502SG27306	D	efault_G	112.96.1	179.204	GPRS		2017-07-31 14:
			<u>====(0)</u>	51R1605HH1600049	D	efault_G		-			
			乳(0)	22R201703DB27114		Test	112.97.1	195.144	LTE		2017-07-05 10:
	0.0		<u>.atl(0)</u>	22R1603LL3100004	D	efault G	119.96	.121.2	HSPA+		2017-07-04 10:

Open the excel file, then find the captured netflow information as below:

	A1 🔫 🤇	f _x	2SR20161	1SL30002D	ata deta	il(2017-09-	-15 ~ 201	7-09-16)							
1	А		8		C		D		E		F	G	Н		J
ī	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:58.	886000017-09	-15 10:34:	58.886000	192.168.	8.74	19771	157. 55. 56. 141	40017	62	br0
i	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:58.	651000017-09	-15 10:34:	58.651000	157.55.5	6. 141	40017	192.168.8.74	19771	75	br0
i	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:57.	823000017-09	-15 10:34:	58. 050000	52. 229. 1	69.31	443	192. 168. 8. 74	55742	120	br0
ł	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:57.	623000017-09	-15 10:34	57.850000	192.168.	8.74	55742	52. 229. 169. 31	443	886	br0
Ĩ	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:57.	295000017-09	-15 10:34:	57.775000	192.168.	8.74	19771	157. 55. 235. 165	40015	184	br0
ł	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:57.	046000017-09	-15 10:34:	57.536000	157. 55. 23	85.165	40015	192. 168. 8. 74	19771	429	br0
i	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:56.	897000017-09	-15 10:34:	57.136000	192.168.	8.74	19771	65. 55. 223. 21	40030	116	br0
i	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:56.	855000017-09	-15 10:34:	57.047000	192.168.	8.74	19771	64. 4. 23. 142	40007	293	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:56.	853000017-09	-15 10:34:	57.045000	192.168.	8.74	19771	64. 4. 23. 154	40017	165	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:56.	852000017-09	-15 10:34:	57.044000	192.168.	8.74	19771	64. 4. 23. 175	40030	115	br0
ł	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:56.	644000017-09	-15 10:34:	56.853000	64. 4. 23	. 175	40030	192. 168. 8. 74	19771	165	br0
I	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:56.	644000017-09	-15 10:34:	56.898000	65. 55. 22	3. 21	40030	192.168.8.74	19771	355	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:56.	643000017-09	-15 10:34:	56.85300(64. 4. 23	. 154	40017	192. 168. 8. 74	19771	351	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:56.	643000017-09	-15 10:34:	56.85600(64.4.23	. 142	40007	192. 168. 8. 74	19771	239	br0
ł	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:52.	898000017-09	-15 10:34:	55.90000	239. 255. 2	55. 250	1900	192.168.8.74	63279	864	br0
	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:48.	497000017-09	-15 10:34:	48.497000	192.168.	8.74	50671	111. 221. 77. 151	33033	112	br0
i	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:48.	442000017-09	-15 10:34:	48. 698000	111.221.7	7.151	33033	192.168.8.74	50671	607	br0
i	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:47.	584000017-09	-15 10:34:	56. 59200(74. 125. 20	04. 101	443	192. 168. 8. 74	57546	194	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:47.	423000017-09	-15 10:34:	56. 432000	74. 125. 20	04. 101	443	192. 168. 8. 74	57545	194	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:45.	630000017-09	-15 10:34:	45. 630000	192.168.	8.74	19771	111. 221. 77. 140	40001	117	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:45.	590000017-09	-15 10:34:	45. 590000	111.221.7	7.140	40001	192. 168. 8. 74	19771	173	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:45.	531000017-09	-15 10:34:	54. 531000	74. 125. 20	04. 113	443	192. 168. 8. 74	57544	194	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:45.	521000017-09	-15 10:34:	54. 52100(74. 125. 20	04. 113	443	192. 168. 8. 74	57543	194	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:37.	798000017-09	-15 10:34:	46. 798000	112.90.7	8. 157	143	192.168.8.74	57542	194	br0
ł	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:36.	540000017-09	-15 10:34:	45. 539000	74. 125. 20	04. 139	443	192.168.8.74	57541	194	br0
	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:36.	527000017-09	-15 10:34:	45. 532000	74. 125. 20	04. 139	443	192. 168. 8. 74	57540	194	br0
į	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:36.	521000017-09	-15 10:34:	45. 51900(74. 125. 20	4. 139	443	192.168.8.74	57539	194	br0
i	2SR201611SL30002	2017-09-1	5 18:35:30	2017-09-15	10:34:36.	519000017-09	-15 10:34:	45. 52200(74. 125. 20	04. 139	443	192.168.8.74	57538	194	br0
1	2SR201611SL30002	2017-09-1	5 18:35:30	017-09-15	10.34.31	043000017-09	-15 10.34	40 047000	74 125 20	102	443	192 168 8 74	57537	194	br0

NOTE: if you want to see date N record, always need select time N+1 date. For example, want to see 09-18 record, then need to select date from 09-18 to 09-19,or from 09-18 to 09-20. If you select 09-17 to 9-18, then records of 09-18 doesn't show. Just follow this rule to get records of specific date.

PS: Remember to shutdown the IPFix feature after using it, because it cost extra data





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