Auto-gen System

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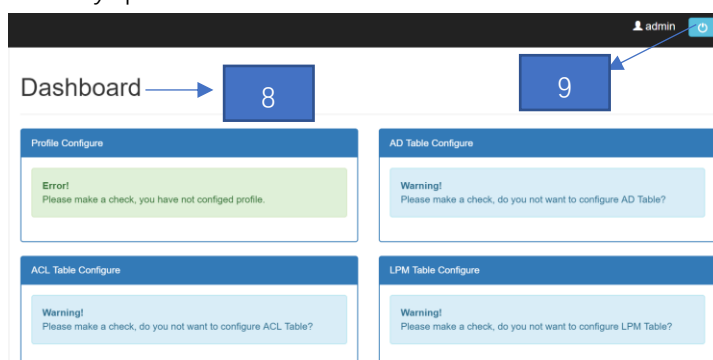# Corigine-Quick Reference Of Auto-gen System

Auto-gen System

Quick Reference

1-> clicking the tab will help users configure the table

2-> clicking the tab will help users configure the profile

3-> clicking the tab will help users determine the type of generate the rules

4-> clicking the tab will help users determine the type of generating the search key

5->clicking the tab will generate the nseappx and rule.txt and search_key.txt

6-> clicking the tab will show the interface of document management

7-> clicking the tab will set e-mail to administrators if have any questions.

👤 admin ⏻

Dashboard → 8   9

Profile Configure

Error!
Please make a check, you have not configed profile.

AD Table Configure

Warning!
Please make a check, do you not want to configure AD Table?

ACL Table Configure

Warning!
Please make a check, do you not want to configure ACL Table?

LPM Table Configure

Warning!
Please make a check, do you not want to configure LPM Table?

8->show the configuration

9->sign out

1->select the NSE's mode.

2->The checkbox will provide three types of tables with the users.

Note: the LPM table and ACL table are chosen at least one.

3->increase one ad

4->AD handle e.g. ADx, x is digit

5->AD base address: general is 0

6-> AD entry e.g. 1024*128, 1024*64, 1024*32, 1024*16

7-> Priority range e.g. 32, 64, 128, 256 *Note: the AD size has a one-to-one relationship with the AD width i.e.*
32->128*1024*n,
64->64*1024*n,128->32*1024*n
, 256->16*1024*n（n >= 1)

8-> increase one ACL table

9->ACL table name, e.g. Tx, x is digit

10-> base unit K, default 1K, e.g. 1024*x, x is digit

11-> Rules' bits e.g. 80, 160, 320, 640

12-> AD handle, e.g. AD1 *select the AD handle which is filled in the "Configure AD"*

13-> increase one LPM table

14-> LPM table name, e.g. Tx, x is digit, *don't repeat the name*

15-> base unit K, default 1K, e.g. 1024*x, x is digit

16-> Rules' bits only 144

17-> LPM have 4 types i.e. eNseLpmTableType_IP4, eNseLpmTableType_VRF_IP4, eNseLpmTableType_IP6, eNseLpmTableType_VRF_IP6, *Note: LPM table has a maximum of four tables, one type has only*

one LPM table.

Configure Profile ×

Profile1 +

    tb-num: `2`

submit

Configure table1

type: `LPM`

table: `T2`

channel: `0`

kgu: `0`

Add Rules

+

Table: `T1`

Type: ◉ INC   ○ LPM-RND   ○ ACL-RND   ○ From File

Rule1 +

Table: `T1`

Type: ○ INC   ○ LPM-RND   ◉ ACL-RND   ○ From File

Form: `s1,s1,s3,s3`

Add Rules   **Hint** ×

Rule1 +

avaiable segments splited by comma:
s1,s2,s3,s4,s5

s1 delegates IP adress V4, 4 bytes taken
s2 delegates IP adress V6, 16 bytes taken
s3 delegates MAC adress, 6 bytes taken
s4 delegates port number, 2 bytes taken
s5 delegates protocol number, 1 byte taken

Form: `s1,s1,s3,s3`

Rule1 +

Table: `T1`

Type: ○ INC   ○ LPM-RND   ○ ACL-RND   ◉ From File

Address: `C:\Users\peng.zhang\Downloads\ T1.txt`

1->increase profile

2-> the number of tables that are configured in profile e.g. 1, 2, 3

3-> Click the drop-down mark and further configure the tables of profile in dropdown box.

4->LPM/ACL. It is determined by the table configuration,e.g. LPM or ACL, *watch your capitalization carefully*

5-> The name of the table contained in the table configuration, e.g. T1

6-> Select channel e.g. 0, 1, 2, 3
If there is a LPM table in profile, its channel selection can only be 0, the profile also has only one LPM table. The selection of channel is corresponding to the location of key,

7->Select kgu, e.g. 0, 1, 2, 3

8->in crease rules configuration

9-> The name of the table contained in the table i.e. T1
Only the previously configured tables can be filled in, and these tables must be filled in to determine the way the rules are produced.

10->the type of generating the rules, acl including inc and random Lpm including inc and random

11-> Generating ACL rules according to the Random pattern, i.e. s1, s1, s3, s3

12->11's hint, according this, Fill in the components of the rule as required, *make sure the length equal the rule's bits, e.g. s1+s1+s3+s3 = 160/8*

13-> Fill in the address of the local rule file, the template is:
`C:\Users\peng.zhang\Downloads\T1.txt`

Search Key

Key1 ＋

Profile ID: 1

Type: ● Auto ○ From File

submit

1 → increase the search key, Generally, the number is equal to the number of profile.

2 → The serial number of the profile contained in the profile configuration, i.e. 1

3 → the type of generating the search key, including Auto and from file, auto is that automatically generate key according to the generated rules.

Search Key

Key1 ＋

Profile ID: 1

Type: ○ Auto ● From File

Address: C:\Users\peng.zhang\Downloads\ key.tx

4 → From-file is that Fill in the address of the local rule file, the template is
`C:\Users\peng.zhang\Downloads\key.txt`

Profile Configure

Profile ID	Chan 0	Chan 1	Chan 2	Chan 3
1	T2	T1		

Detail >>

AD Table Configure

Table ID	name	baseAddr	size	width
1	AD1	0	1024*128	32

Detail >>

ACL Table Configure

Table ID	name	depth	width	adBlock
1	T1	1024	160	AD1

Detail >>

LPM Table Configure

Table ID	name	depth	width	type
1	T2	1024	144	eNseLpmTableType_IP4

Detail >>

5 → show the profile configure
6 → show the ad configure
7 → show the acl table configure
8 → show the lpm table configure
9 → show the popup of " Configure ".

Generate Application ×

please click the file to download

app	rule	key
nseApp_admin_2018-02 -09_01-24-36-249	nseApp_admin_2018-02 -09_01-24-36-249_rule	nseApp_admin_2018-02 -09_01-24-36-249_key

close

10 → display the generated files including NSEAPPx.c, rule.txt and search_key.txt for the users. Users can download them according to their needs.
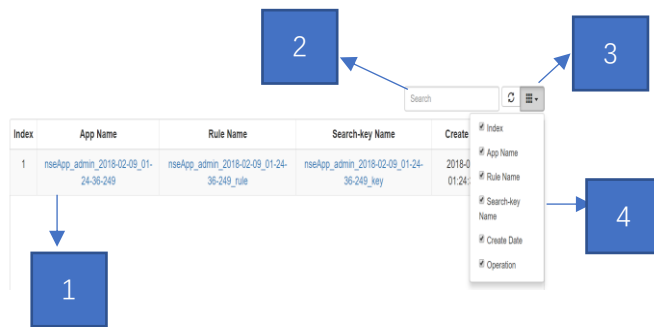
2		3

Search

Index	App Name	Rule Name	Search-key Name	Create
				☑ Index
				☑ App Name
1	nseApp_admin_2018-02-09_01-24-36-249	nseApp_admin_2018-02-09_01-24-36-249_rule	nseApp_admin_2018-02-09_01-24-36-249_key	2018-0... 01:24... ☑ Rule Name
				☑ Search-key Name
				☑ Create Date
				☑ Operation

4

1

Index	App Name	Rule Name	Search-key Name	Create Date	Operation
1	nseApp_admin_2018-02-08_00-10-47-034	nseApp_admin_2018-02-08_00-10-47-034_key	nseApp_admin_2018-02-08_00-10-47-034_key	2018-02-08 00:11:24.0	delete
2	nseApp_admin_2018-02-08_01-14-01-013	nseApp_admin_2018-02-08_01-14-01-013_rule	nseApp_admin_2018-02-08_01-14-01-013_key	2018-02-08 01:14:04.0	delete

5

6		7

Query Criteria

User Name: admin   Begin Date: 2018-02-08   End Date:

‹		February 2018				›
Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	1	2	3
4	5	6	7	8	9	10

Search

9

Index	App Name	Rule Nai		ey Name	Create Date	Operation
1	nseApp_admin_2018-02-09_01-24-36-249	nseApp_admin_2018... 36-249		18-02-09_01-24-9_key	2018-02-09 01:24:36.0	delete

8
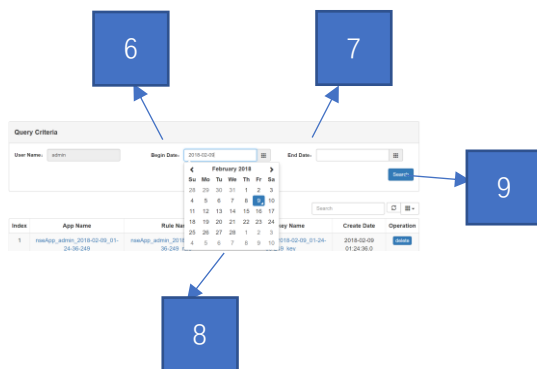
1-> file display interface, There is a total of 6 column including index, App Name, Rule Name, Search-key Name, Create Date and Operation. Users can download and delete these files according to their needs.
2->keyword search
3->show the drop-down menu
4-> decide what to display by the drop-down menu
5-> delete this record

6->data search: begin data
7-> data search: end data
8-> the calendar on the drop-down menu, can select data
9->show the relative record in the file display interface