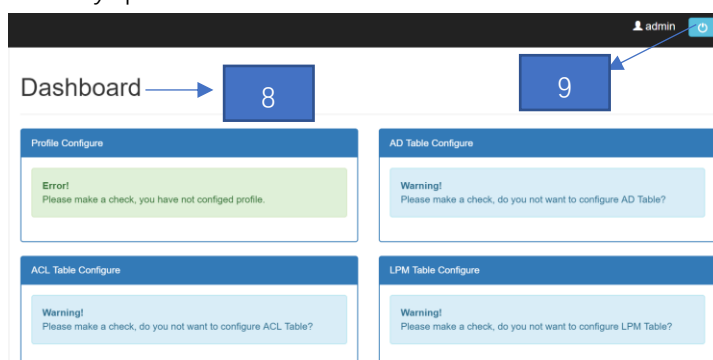


- 1-> clicking the tab will help users configure the table
- 2-> clicking the tab will help users configure the profile
- 3-> clicking the tab will help users determine the type of generate the rules
- 4-> clicking the tab will help users determine the type of generating the search key
- 5-> clicking 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.



- 8->show the configuration
- 9->sign out

Corigine- Quick Reference Of Auto-gen System

Auto-gen System

Quick Reference



Configure Mode

Mode:

☒ enable AD

☒ enable ACL

☒ enable LPM

next step

Configure AD

Table1

name:

baseAddr:

size:

width:

next step

Configure ACL

ACL Table1

name:

depth:

width:

adBlock:

next step

Configure LPM

Table1

name:

depth:

width:

type:

Submit

- 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

avaialbe segments splited by comma:
s1,s2,s3,s4,s5
s1 delegates IP address V4, 4 bytes taken
s2 delegates IP address V6, 16 bytes taken
s3 delegates MAC address, 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 configuration, **Only the previously configured tables can be filled in, and these tables must be filled in to determine the way the rules are produced.**
i.e. T1
- 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.
- 13-> Fill in the address of the local rule file, the template is as follows:
C:\Users\peng.zhang\Downloa
s\T1.txt

Search Key

Key1

Profile ID: 1

Type: ☒ Auto ☐ From File

submit

Search Key

Key1

Profile ID: 1

Type: ☐ Auto ☒ From File

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

Profile Configure

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

AD Table Configure

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

ACL Table Configure

Table ID	name	depth	width	adBlock
1	T1	1024	160	AD1

LPM Table Configure

Table ID	name	depth	width	type
1	T2	1024	144	ehNseLpmTableType_IP4

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

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.

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

5->show the profile configure

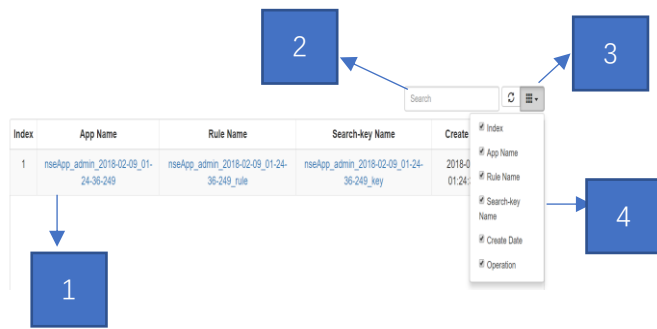
6->show the ad configure

7->show the acl table configure

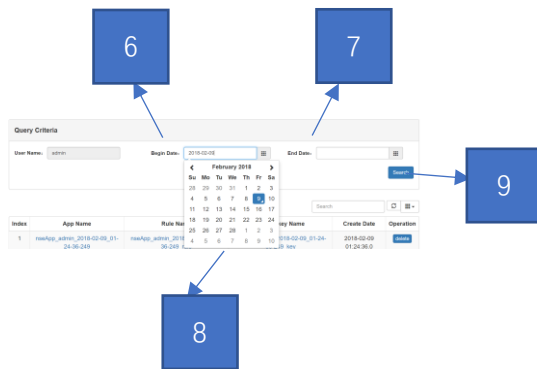
8->show the lpm table configure

9-> show the popup of "Configure".

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.



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_rule	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



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