



RG-WG

WebGuard

V1.0

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RG-OS

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help	Show help help
exit	Exit shell
clear	Clear screen
history	Show history command list

1.1 dashboard

Product Series: 10000M Enhanced
Product Type: Standard Version
Host Name: RG-WG
OS Version: 2.30-20140907
Software Version: 6.1.2.25229
SecEngine Version: 3.08
Pattern Version: 6.96
Online User:
Mngt IP: 192.168.1.200
Sessions: 19
System Uptime: 0Day 06:14:50
System Time: Tue Dec 27 03:27:12 2016

====Resource Utilization====

CPU Number: 1
CPU Model: Intel(R) Core(TM) i5-4210U CPU @ 1.70GHz
CPU Speed: 2393.7MHZ
CPU Usage: 1.0%
Memory Total: 2025.8MB
Memory Used: 1013.3MB(50.0%)
IO Usage: 0.0%
SysDev Total: 1935.9MB

SsDev Used: 691.8MB(.S35.7%)

-L

RG-WG>time -L

1/3/2017 15:25:22

1.3 ntp

ntp -C/--config -p/--pattern <mode> -e/--enable <enable> -i/--ip<server ip>

-C

-p 0 1 2

-e 0 1

-i ip

RG-WG>ntp -C -p 1 -e 1 -i 133.100.11.8

ntp -R/--run --start ntp client

-R

RG-

```
dns -S/--set -p/--primary <primary DNS> -s/--secondary <secondary DNS> /--set DNS
```

```
-S
```

```
-p      DNS      ip
```

```
-s      DNS      ip
```

```
RG-WG>dns -S -p 114.114.114.114 -s 8.8.8.8
```

```
set dns seccess!
```

```
dns-L/--list /--list DNS
```

```
-L      DNS
```

```
RG-WG>dns -L
```

```
primary dns:114.114.114.114
```

```
secondary dns:8.8.8.8
```

info -S -o/--Org{organization} -c/--City{city} -u/--Country{country} -m/--Mail{mail} / --set information

-S

-o

-c

-u

-m

RG-WG>info -S -o test -c Beijing -u China -m 12345678@qq.com

info -L

/--list information

IL

hostname -S/--set -n/--name <new host name> /--set host name

-S

-n

RG-WG>hostname -S -n RG-WG

hostname -L/--list /--list host name

-L

RG-WG>hostname -L

host name:RG-

-g admin/audit/account

-p

RG-WG>usermngt -A -n test -g admin -p 123456

usermngt -E/--edit -n/--name {username} <-g/--group {admin/audit/account} | -p/--pwd {passwd}>

-E

-n

-g

-p

usermngt -S/--show		
-S		
RG-WG>usermngt -S		
Total: 4		
USER	GROUP	PASSWD
admin	admingroup	*****
test	admingroup	*****
account	accountgroup	*****
audit	auditgroup	*****

1.8 upgradesystem

Upgradesystem url
url
RG-WG>upgradesystem http://192.168.1.1/os.img

```
RG-WG>upgradesystem ftp://192.168.1.1/os.img
```

```
RG-WG>upgradesystem ftp://admin:123456@192.168.1.1/os.img
```

1.10 factoryreset

```
factoryreset -R          Normal FactoryReset
```

```
factoryreset -M          Migrate Factory Reset, when CF is moved to another machine, use this  
one
```

```
-R
```

```
-M CF
```

```
RG-WG>factoryreset -R
```

```
RG-WG>factoryreset -M
```

1.11 reboot

```
reboot -R/--restart      --restart system
```

```
-R
```

```
RG-WG>reboot -R
```

```
reboot -S/--shutdown          --shutdown system
```

```
-S
```

```
RG-WG>reboot -S
```

1.12 remote

```
remote -A/--add -t/--type<remote type> -i/--ip<ip address> -m/--mask<network mask>
```

```
-A
```

```
-t          ssh/web/ping
```

```
-i          ip
```

```
-m
```

```
RG-WG>remote -A -t ssh -i 192.168.3.3 -m 255.255.255.0
```

```
remote -U/--update -t/--type<remote type> -i/--ip<ip address> -m/--mask<network mask>
```

```
-U
```

```
-t          ssh/web/ping
```

```
-i          ip
```

```
-m
```

```
RG-WG>remote -U -t ping -i 192.168.3.3 -m 255.255.255.0
```

```
remote -D/--delete -t/--type <remote type> -i/--ip<ip address> -m/--mask<network mask>
```

```
-D
```

```
-t          ssh/web/ping
```

```
-i          ip
```

```
-m
```

```
RG-WG>remote -D -t ping -i 192.168.3.3 -m 255.255.255.0
```


backup file 20170103154546.db.tmp: 1

Backup DB successfully

dbmanage -R/--restore [-d/--dbname <config/log>] -p/--backuppoint <backup point> /--
restore DB from backup point

-R

-d config log

-P

RG-WG>dbmanage -R -p 20170103154537.db

Restore DB successfully

dbmanage -D/--delete [-d/--dbname <config/log>] -p/--backuppoint <backup point> /--
delete DB backup point

-D

-d config log

-P

RG-WG>dbmanage -

1.14 mail

```
mail -S/--set -e/--enable {0/1} -s/--server {smtp} -p/--port {port} -a/--auth {0/1} -l/--tls {0/1} -u/--user {user} -w/--passwd {passwd} -r/--recv {receiver} -t/--topic {topic} -i/--interval {minutes}
```

-S

-e 0 1

-s smtp

-p

-a 0 1

-l TLS 0 1

-u -a 1

-p -a 1

-r

-t

-i

```
RG-WG>mail -S -e 1 -s smtp.163.com -p 25 -a 1 -l 1 -u 123456@163.com -p 123456 -r 123456@qq.com -t testmail
```

mail -T/--test send test mail

-T

RG-WG>mail -T

mail -L/--list

-L

RG-WG>mail -T

Sent test mail failed

RG-WG>mail -L

enable: no

server:

port: 25

auth: off

tls: off

user:

passwd: *****

receiver:

topic:

interval: 1

1.15 sms

sms -S/--set -e/--enable {0/1} -r/--recv {receiver}

-S

-e 0 1

-r

WAF>sms -S -e 0 -r 18612345678

sms -T/--test send test sms

-T

WAF>sms -T


```
-U      snmp
-e      snmp      DISENABLE      ENABLE
-v      v1/v2    v3
-t
-m
-l
-s
-c
-u
-h
-P
```



```
snmp -S/--show
```

```
-S      snmp
```

```
WAF>snmp -S
enable  version  contract  sysname  location  source  community  user_name  auth_pass  priv_pass
YES    v1/v2    test1    test2    test3    test4    test5      admin     123       321
```

snmp -X/--start

-X snmp

WAF>snmp -X

snmp -Y/--stop

-Y snmp

WAF>snmp -Y

snmp -R/--reload

-R snmp

WAF>snmp -R

2.1 port

```
port -C/--create -i/--idx {idx} -l/--logicname {logic_name} -p/--physicalname {physical_name} [-s/--speed {speed}]
```

-C port

-i id

-l

-p

-s



```
-l
```

```
WAF>port -M -p eth7 -l s3E2
```

```
port -S/--show
```

```
-S port
```

```
WAF>port -s
Total: 11
idx  logicname  phyname  admin_status  bridge  channel  speed  link_status  mac
-----
```

idx	logicname	phyname	admin_status	bridge	channel	speed	link_status	mac
1	eth0	eth0	up	eth0	0	1000000000	up	00:0c:29:12:34:56
2	eth1	eth1	up	eth1	0	1000000000	up	00:0c:29:12:34:57
3	eth2	eth2	up	eth2	0	1000000000	up	00:0c:29:12:34:58
4	eth3	eth3	up	eth3	0	1000000000	up	00:0c:29:12:34:59
5	eth4	eth4	up	eth4	0	1000000000	up	00:0c:29:12:34:5a
6	eth5	eth5	up	eth5	0	1000000000	up	00:0c:29:12:34:5b
7	eth6	eth6	up	eth6	0	1000000000	up	00:0c:29:12:34:5c
8	eth7	eth7	up	eth7	0	1000000000	up	00:0c:29:12:34:5d
9	eth8	eth8	up	eth8	0	1000000000	up	00:0c:29:12:34:5e
10	eth9	eth9	up	eth9	0	1000000000	up	00:0c:29:12:34:5f
11	eth10	eth10	up	eth10	0	1000000000	up	00:0c:29:12:34:60

```
port -F/--fresh
```

```
-F port
```

```
WAF>port -F
```

2.2 bridge

```
bridge -C/--create -i/--vid <Bridgeid>(2-4094) [-v/--vname<Bridgename>(def name: Bridge$vid)]  
-d/--
```

-v

bridge -N/--disable -v/--vname<Bridgename>

-N

-v

```
WAF>bridge -A -v bridge4 -f 192.168.5.100 -m 255.255.255.0 -n y  
Add 0x6405a8c0 into bridge(bridge4)
```

```
bridge -R/--remove -v/--vname<Bridgename> -f/--ip<ipv4>
```

```
-R          ip
```

```
-v
```

```
-f          ip
```

```
WAF>bridge -R -v bridge4 -f 192.168.5.100  
Delete 0x6405a8c0 from bridge(bridge4)
```

```
bridge -L/--link -v/--vname< Bridgename > -g/--group <portname/channelname>
```

```
-L  port      channel
```

```
-v
```

```
-g  port      channel
```

```
WAF>bridge -L -v bridge4 -g S2E2  
add S2E2 to bridge(bridge4)
```

```
bridge -U/--unlink -v/--vname<Bridgename> -g/--group <portname/channelname>
```

```
-U port channel
```

```
-v
```

```
-g port channel
```

```
WAF>bridge -U -v bridge4 -g S2E2  
remove S2E2 from bridge(bridge4)
```

```
bridge -M/--modify -v/--vname<Bridgename><-t/--mtu<mtu>>
```

```
-M MTU
```

```
-v
```

```
-t MTU
```

```
WAF>bridge -M -v bridge4 -t 1500  
set mtu of bridge(bridge4) to 1500
```


-D trunk

-v trunk

```
WAF>trunk -D -v bridge4.300
delete trunk bridge4.300 ok
```

trunk -E/--enable -v/--tname<trunkname>

-E trunk

-v trunk

```
WAF>trunk -E -v bridge4.300
set trunk(bridge4.300) UP
```

trunk -N/--disable -v/--tname<trunkname>

-N trunk

-v trunk

```
WAF>trunk -N -v bridge4.300
set trunk(bridge4.300) DOWN
```

```
trunk -M/--mode -v/--tname<trunkname> -t/--status <status>
```

```
-M      trunk
```

```
-v trunk
```

```
-t      0/1
```

```
WAF>trunk -M -v bridge4.300 -t 0
```

```
trunk -A/--add -v/--tname<trunkname> -f/--ip<ipv4> -m/--mask <mask> --n/--mngt<ismngt> y/n
```

```
-A      trunk      ip
```

```
-v trunk
```

```
-f trunk      ip
```

```
-m
```

```
-n      ip y      n
```

```
WAF>trunk -A -v bridge4.300 -f 100.100.9.100 -m 255.255.255.0 --n y
```


channel -C/--create -c/--cname {channelname}(max8)

-C channel

-c channel

```
channel -N/--disable -c/--cname {channelname}
```

```
-N channel
```

```
-c channel
```

```
WAF>channel -N -c C1
```

```
channel -A/--add -c/--cname {channelname} -p/--port {portname}
```

```
-A port channel
```

```
-c channel
```

```
-p port
```

```
WAF>channel -A -c C1 -p S2E2  
set channel C1 add port S2E2
```

```
channel -R/--remove -c/--cname {channelname} -p/--port {portname}
```

```
-R port channel
```

```
-c channel
```

```
-p port
```


-t Metric

```
WAF>route -D -i 0.0.0.0 -m 0.0.0.0 -g 192.168.6.1 -t 5
```

route -S/--show

-S

```
WAF>route -S
Total: 1
ip          mask          nexthop       metric  ifname
0.0.0.0     0.0.0.0       192.168.6.1   5
```

2.7 proute

proute -A/--add -x/--index {index} [-s/--sip {ip/mask} -d/--dip {ip/mask}] -g/--gw {ip}

-A

-x

-s /

-d

-g



```
proute -M/--modify -x/--index {index} [-s/--sip {ip/mask} -d/--dip {ip/mask}] -g/--gw {ip}
```

-A

-x

-s /

-d /

-g

-L

2.8 arp

arp -A/--add -i/--ip {ip} -m/--

plink -E/--enable

```
WAF>plink -E
```

plink -N/--disable

```
WAF>plink -N
```

plink -S/--show

```
WAF>plink -S
```

```
-----  
|switch: on  
-----
```

link	logic_name	sysname	status
uplink	S2E2	eth3	down
downlink	S2E3	eth4	down

```
-----
```

plink -D/--delete [remove plink settings]

```
WAF>plink -D  
remove plink settings!  
...._
```

plink --uplink {logic_name} [set uplink port, e.g. port0]

--uplink

```
.....
WAF>ping baidu.com
PING baidu.com (180.149.132.47) 56(84) bytes of data.
64 bytes from 180.149.132.47: icmp_seq=1 ttl=53 time=47.7ms

64 bytes from 180.149.132.47: icmp_seq=2 ttl=53 time=48.9ms

64 bytes from 180.149.132.47: icmp_seq=3 ttl=53 time=47.4ms
64 bytes from 180.149.132.47: icmp_seq=4 ttl=53 time=47.5ms
```

3.2 tracert

```
tracert <IP>
```

```
.....
```

3.3 tcpdump

```
tcpdump -i <Bridge> host <ip> and port <80>
```

```
-i
```

```
host
```

```
port
```

```
WAF>tcpdump -i MngtBridge host 192.168.6.203 and port 80
tcpdump: WARNING: MngtBridge: no IPv4 address assigned
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on MngtBridge, link-type EN10MB (Ethernet), capture-size 96 bytes
```

3.4 nslookup

```
nslookup server      Internet          DNS
```

```
WAF>nslookup baidu.com
Server:          114.114.114.114
Address:         114.114.114.114#53
```

```
Non-authoritative answer:
Name:   baidu.com
Address: 220.181.57.217
Name:   baidu.com
Address: 180.149.132.47
Name:   baidu.com
Address: 111.13.101.208
Name:   baidu.com
Address: 123.125.114.144
```

4.1 ipobj

```
ipobj -A/--add -n/--name {name} -i/--ip {sip/eip | ip/mask}
```

```
-A ip
```

```
-n ip
```

```
-i ip ip 192.168.2.1/24 ip  
192.168.2.1/192.168.2.10
```

```
WAF>ipobj -A -n iptest2 -i 192.168.2.1/24
```

```
WAF>ipobj -A -n iptest2 -i 192.168.2.1/24
```

```
ipobj -M/--modify -n/--name {name} -i/--ip {sip/eip | ip/mask}
```

```
-M ip
```

```
-n ip
```

```
-i ip ip 192.168.2.1/24 ip  
192.168.2.1/192.168.2.10
```

```
WAF>ipobj -M -n iptest2 -i 192.168.2.1/32
```

```
ipobj -D/--del -n/--name {name}
```

```
-D ip
```




```
svroby -M/--modify -n/--name {name} -p/--proto {ip_proto_number} -i/--port {sport/eport}
```

-M

-n

-p 1-ICMP 6-TCP 17-UDP

-i TCP UDP /

-t	02:02-05:05

timeobj -M/--modify -n/--name {name} -w {week} -t/--time {hh:mm:ss-hh:mm:ss}	
-M	
-n	
-w	1 0 7 0101011
-t	02:02-05:05

timeobj -D/--del -n/--name {name}	
-D	
-n	

```
WAF>timeobj -D -n timetest1
```

```
timeobj -L/--list
```

```
-L
```

```
WAF>timeobj -L
Total: 2
id      name      refcnt  week      hour:min-hour:min
2       timetest1  0       1000011   12:12-15:15
```

4.4 objgroup

```
objgroup -C/--create -n/--name {group_name} -t/--type {ip | service}
```

```
-C
```

```
-n
```

```
-t      ip-ip      service-
```

```
WAF>objgroup -C -n ipgroup1 -t ip
```

```
WAF>objgroup -C -n svrgroup1 -t service
```

```
objgroup -D/--destroy -n/--name {group_name} -t/--type {ip | service}
```

```
-D
```

```
-n
```

```
-t          ip-ip          service-
```

```
WAF>objgroup -D -n ipgroup1 -t ip
```

```
WAF>objgroup -D -n svrgroup1 -t service
```

```
objgroup -A/--add -n/--name {group_name} -t/--type {ip | service} -o/--object {object_name}
```

```
-A  ip
```

```
-n
```

```
-t          ip-ip          service-
```

```
-o
```

```
WAF>objgroup -R -n svrgroup1 -t service -o svrttest3
```

```
objgroup -R/--remove -n/--name {group_name} -t/--type {ip | service} -o/--object {object_name}
```

```
-R ip
```

```
-n
```

```
-t ip-ip service-
```

```
-o
```

```
WAF>objgroup -R -n svrgroup1 -t service -o svrttest3
```

```
objgroup -L/--list
```

```
-L
```



```
-x
-e          0      1
-j          0      1
-i
-o
-s  ip      ip      ip
-d  ip      ip      ip
-p
-t
```

```
WAF>>iprule -A -x 3 -e 0 -i 1 -s intest1 -d intest2 -o svrtest4 -t timetest1
```

```
iprule -M/--modify -x/--index {index} [-n/--newidx {newindex} -e/--enable {0/1} -j/--drop {0/1} -i/--inintf {inintf} -o/--outintf {outintf} -s/--srcip {srcip|group} -d/--dstip {dstip|group} -p/--service {service|group} -t/--time {timeobj}]
```

```
-M
-x
-e          0      1
-j          0      1
-s  ip      ip      ip
```

```
-d ip ip ip
```

```
-p
```

```
-t
```

```
WAF>iprule -M -x 2 -e 0 -i 1 -s intest1 -d intest2 -p svctest5 -t timetest1
```

```
iprule -D/--del -x/--index {index}
```

```
-D
```

```
-x
```

```
WAF>iprule -D -x 1
```

```
iprule -L/--list
```

```
-L
```

```
WAF>iprule -L
Total: 2
index enable drop inintf outintf srcip dstip service time
1 0 0 0 0 intest1 intest2 svctest3 timetest1
```

5.1 WebKeeper

```
webkeeper -C/--create -n/--name {website} -o/--os {0-win 1-linux} -h/--host {hostname} [-i/--ip  
{webservice ip}] -r/--root {webroot} [-s/--status {0/1} -e/--excl {excldir} -t/--extp {excltype} -p/  
-expc {exclproc} -d/--distweb {distweb} -l/--log {0/1}]
```

-C

-n web

-o

-h

-i ip

-r web

-s 0 1

-e /

-t

-p

-d
-l 0 1

webkeeper -D/--delete -n/--name {website}
-D
-n web

webkeeper -E/--edit -n/--name {website} -o/--os {0-win 1-linux} -h/--host {hostname} -i/--ip {webserver ip} -r/--root {webroot} -b/--back {backdir} -s/--status {0/1} -e/--excl {excldir} -t/--

-i ip

-r web

-s 0 1

-e /

-t

-p

```
WAF>webkeeper -S -i 192.168.1.3
Total: 1
Website OS Hostname IP Status Webroot Backdir ExclDir ExclType ExclProc DistWeb Duration Log
request.windows localhost 192.168.1.3 enable /cgi2 test.html test.cgi html rm flacsv 60 enable
```

```
webkeeper -L/--list          list webserver status

-L

WAF>webkeeper -L
Total: 1
Host IP Status OS Type Version CPU Usage CPU Speed MEM Usage MEM Size Rx Pkt Tx Pkt
localhost.localdomain 192.168.6.244 connected RayOS 1.0 27% 2394 17% 1006 1338 433
```

```
webkeeper -P/--probe       list probing clients

-P

[REDACTED]
```

webkeeper -Y/--sync -n/--name sync manually

-Y

-n web

*** webkeeper ***

5.2 Distributor

distributor -C/--create -n/--name {distweb} -o/--os {0-win 1-linux} -h/--host {hostname} [-i/--ip {web-server ip}] -r/--root {webroot} -e/--excl {excldir} -t/--extp {excltype}}

-C

-n

-o

-h

-i ip

-r

-e

-t

```
WAF>distributor -C -n fabutest1 -o 1 -h localhost -i 192.168.1.1 -r /fabu -e /fb._t.test.txt.
```

```
distributor -D/--delete -n/--name {hostname}
```

-D

-n

```
WAF>distributor -D -n fabutest1
```

```
distributor -E/--edit -n/--name {distweb} -o/--os {0-win 1-linux} -h/--host {hostname} [-i/--ip {webserver ip}] -r/--root {webroot} -e/--excl {excldir} -t/--extp {excltype}}
```

-E

-n

-o

-h

-i ip

distributor -P/--probe list probing server

-P

WAF>distributor -P

Total: 1

Host	IP	OS Type	Version
localhost.localdomain	192.168.6.244	RayOS	1.0