

RAT v1.1 User Guide (Windows Version)

CIS(http://www.cisecurity.org) 2 Benchmark and Audit Tool for Cisco IOS Route				CIS Level 1/Level , Cisco Router	
RAT					,
	Utility		가	Member Shi	p
,		WINDOSW ,LIN	NUX ,HP- UX , Solaris	OS	CIS
*	RAT				

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RAT	http://www.cisecurity.org	Windows Download		
PERL 5.6.1	http://www.activestate.com	Windows Download		
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Net::telnet::Cisco	-module/Net/			

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elnet::Cisco)		-module/Net/						
*	Test								
	0	RAT	: Windows	2000 P	Profession	al			
	0		: 7206 VXR						
*									
1.	Perl In	stall							
	,		v.activestate.com nload		I	Perl 5.6.1	Ve	rsion	
		. Wind	lows						
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2.	RAT D	ownLo	oad						
		http:	//www.cisecurity.org				RAT	Download	
		. C: \ I	RAT .(Directo	ry		.)	

Cisco Systems Korea

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3. Perl CPAN Archive . http://ftp.kreonet.re.kr/pub/languages/CPAN/modules/by-module/Net/ Net::telnet , Net::telnet::Cisco CPAN Module Download CPAN Module RAT가 . Download Directory Directory CPAN Module . Activestata Perl Pakage Manager (PPM) Install < > Dos Prompt ppm install Net-telnet, ppm install net-telnet-cisco ? perl winmake.pl . Winmake 4. RAT (ncat_config) . Ncat_config Config Reporting 가 . Ncat_config → Dos perl ncat_config Router Menu <Dos C: \ rat \ rat-1.1 \ bin>perl ncat_config ncat_config: Reading c: \ rat \ bin/etc/ncat.conf.MASTER Please answer the questions below about your network and router configuration. Type? to get a short explanation of any parameter. If you are unsure about what value to give for a parameter, hit RETURN to take the default value. Select types of optional rules to be applied: ncat_config: Apply rules for class use_multiple_ntp_servers [no] ? y ncat_config: Apply rules for class exterior_router [no] ? y ncat_config: Apply rules for class tacacs_aaa [no] ? ncat_config: Apply rules for class localtime [no] ? y ncat_config: Skipping class "gmt". It is incompatable with "localtime". ncat_config: Apply rules for class snmp [no] ? y

ncat_config: Apply rules for class exterior_router_with_2nd_if [no] ? y



```
Change default configuration values:
ncat_config: Enter value for local_acl_num_egress [181]?
ncat_config: Enter value for local_acl_num_ingress [180]?
ncat_config: Enter value for local_acl_num_vty [182]?
ncat_config: Enter value for local_address_internal_netblock_with_mask
[192.168.1.0 0.0.0.255] ? 188.188.100.5 0.0.0.255
ncat_config: Enter value for local_address_loopback [192.168.1.3] ??
Help for local value:
? he IP address of this router's loopback interface (if any)
Default value is: 192.168.1.3
ncat_config: Enter value for local_address_loopback [192.168.1.3]? n
ncat_config: Enter value for local_address_ntp_host [1.2.3.4] ? n
ncat_config: Enter value for local_address_ntp_host_2 [5.6.7.8] ? n
ncat_config: Enter value for local_address_ntp_host_3 [9.10.11.12] ?
ncat_config: Enter value for local_address_syslog_host [192.168.1.3]?
ncat_config: Enter value for local_address_telnet_acl_block_with_mask
[192.168.1.0 0.0.0.7] ? ?
Help for local value:
? he LAN address and netmask for the hosts permitted to telnet to the router.
Default value is: 192.168.1.0 0.0.0.7
ncat_config: Enter value for local_address_telnet_acl_block_with_mask
[192.168.1.0 0.0.0.7] ? 188.188.200.5 0.0.0.255
ncat_config: Enter value for local_address_telnet_acl_host [192.168.1.254] ??
Help for local value:
? he IP address of the host permitted to telnet to the router.
Default value is: 192.168.1.254
ncat_config: Enter value for local_address_telnet_acl_host [192.168.1.254] ?
ncat_config: Enter value for local_exec_timeout [5 0] ?
ncat_config: Enter value for local_external_interface [Ethernet0] ?
ncat_config: Enter value for local_external_interface_2 [Ethernet1] ?
```



ncat_config: Enter value for local_gmt_offset [0]?

ncat_config: Enter value for local_loopback_num [0] ?

ncat_config: Enter value for local_timezone [GMT]?

ncat_config: Writing c: \ rat \ bin/etc/ncat.conf...Done.

ncat_config: Now examine c: \ rat \ bin/etc/ncat.conf.

 $ncat_config: \ Edit \ c: \ \ lin/etc/ncat.conf. MASTER \ and \ rerun \ ncat_config \ if \ not$

satisfactory.

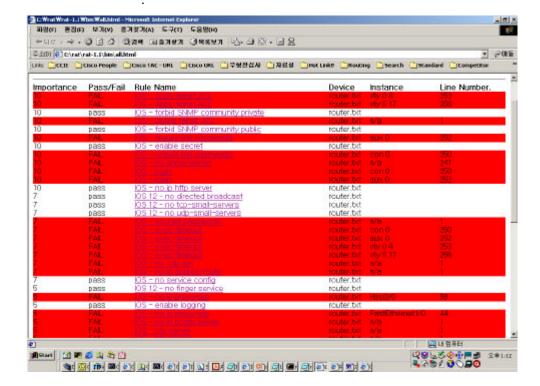
5. Reporting

. Ncat_config Reporting .

. sh running-config , config text capture . → router.txt

. RAT → perl rat router.txt (router config)

. all.html , all.html Reporting





Rule Name	Click	Guide フ
,	Sample config	가
configuration		
Rule	RAT utility download	rscg.pdf



. RAT Rule Level (Certcc Korea

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Level 1	Level 2
Apply egress filter	aaa accounting commands
Apply ingress filter	aaa accounting connection
Apply telnet ACL	aaa accounting exec
clock timezone	aaa accounting network
Define telnet ACL	aaa accounting system
disable aux	aaa authentication enable
egress filter definition	aaa authentication login
enable logging	aaa new-model
enable secret	aaa source-interface
encrypt passwords	Apply egress filter to 2nd IF
exec-timeout	Apply ingress filter to 2nd IF
forbid SNMP community private	forbid clock summer-time - GMT
forbid SNMP community public	Loopback0 must be only loopback
forbid SNMP read-write	Loopback0 must exist
forbid SNMP without ACLs	no local logins
ingress filter definition	no tftp-server
logging buffered	ntp server 2
logging console critical	ntp server 3
logging trap debugging	require clock summer-time - localtime
login	require external IF 2 to exist
no cdp run	service timestamps - GMT
no ip bootp server	service timestamps - localtime
no ip http server	tftp source-interface
no ip proxy-arp	Tunnel interfaces must not exist
no ip source-route	
no service config	
no snmp-server	
ntp server	
ntp source	
require external IF to exist	
require line passwords	
set syslog server	
vty transport telnet	
no identd service(IOS 11)	
no directed broadcast(IOS 11, 12)	
no finger service(IOS 11, 12)	
no tcp-small-servers(IOS 11, 12)	
no udp-small-servers(IOS 11,12)	



. RAT

Program				
Snarf				
Ncat	Rule		CSV	
Ncat_report	CSV	,HTML		
rat		capture		
Ncat_config	Rule			

Reference Site

http://nsa2.www.conxion.com/cisco/download.htm

http://www.cisco.com/warp/public/707/21.html

http://www.cymru.com/~robt/Docs/Articles/secure -ios-template.html

http://www.cisco.com/warp/public/707/advisory.html

http://www.cisecurity.org

http://www.kisa.or.kr

http://www.certcc.or.kr (Unix Guide 가)