

finger ..... 3

Anonymous FTP ..... 4

r ..... 5

cron ..... 6

Dos ..... 7

NFS ..... 7

NFS ..... 8

automountd ..... 9

RPC ..... 9

NIS, NIS+ ..... 10

tftp, talk ..... 11

Sendmail ..... 12

..... 13

Sendmail ..... 13

DNS ..... 14

DNS Zone Transfer ..... 15

..... 16

..... 16

..... 17

..... 18

..... 19

..... 20

..... 20

ssh ..... 21

ftp ..... 21

ftp shell ..... 22

Ftpusers ..... 22

Ftpusers ..... 22

at ..... 23

SNMP ..... 23

SNMP ..... 23

..... 24

NFS ..... 24

expn, vrfy ..... 24

Apache ..... 24

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---

# finger

Finger( ) 가 가 가 가

※ Finger( ): who 가  
finger

## rhel inetd

```
#cat /etc/inetd.conf
#finger stream tcp nowait bin /usr/lbin/fingered
```

fingerd

Step 1) /etc/inetd.conf finger # ( )

```
( ) finger stream tcp nowait bin /usr/lbin/fingered fingerd
( ) #finger stream tcp nowait bin /usr/lbin/fingered fingerd
```

Step 2) inetd

```
#ps -ef | grep inetd
root 141 1 0 15:03:22 ? 0:01 /usr/sbin/inetd -s
#kill -HUP [PID]
```

## rhel xinetd

```
#ls -all /etc/xinetd.d/* | egrep "echo finger"
```

finger 가

Step 1) vi /etc/xinetd.d/finger Step 2) (Disable  
= yes )

```
service finger
{
```

```
socket_type = stream
wait = no
user = nobody
server = /usr/sbin/in.fingerd
disable = yes
}
```

Step 3) xinetd

```
#service xinetd restart
```

## Anonymous FTP

FTP	FTP
Anonymous FTP(	anonymous
가 local exploit	가

### FTP

/etc/passwd ftp anonymous

```
#userdel ftp
```

## ProFTP

conf/proftpd.conf anonymous User, Useralias  
(proftpd.conf )

```
<Anonymous ~ftp> <- Anonymous
# User ftp <- anonymous
Group ftp
# UserAlias anonymous ftp <-
</Anonymous>
```

## vsFTP

vsFTP (/etc/vsftpd/vsftpd.conf , /etc/vsftpd.conf)

```
anonymous_enable=NO
```

<https://access.redhat.com/solutions/2048173>

**r**

r-command NET Backup

가

rsh, rlogin, rexec r command

가

rsh, rlogin, rexec (shell, login, exec)

```
#ls -all /etc/xinetd.d/* | egrep "rsh|rlogin|rexec" | egrep -v "grep|klogin|kshell|kexec"
```

Step 1) vi /etc/xinetd.d/ rlogin, rsh, rexec

Step 2) (Disable = yes ) • /etc/xinetd.d/rlogin • /etc/xinetd.d/rsh • /etc/xinetd.d/rexec

```
service rlogin
{
  socket_type = stream
  wait = no
  user = nobody
  log_on_success += USERID
  log_on_failure += USERID
  server = /usr/sbin/in.fingerd
  disable = yes
}
```

Step 3) xinetd

```
#service xinetd restart
```

r-command (\$HOME/.rhosts, hosts.equiv ) Step 1) r command  
- .rhosts, hosts.equiv hostname(IP)  
※ IP IP - .rhosts, hosts.equiv 600 -  
TCP\_Wrapper IP 가

```
rlogin, rshell, rexec      backup,
                          (/etc/hosts.equiv
                          -
                          )
                          .rhosts
```

<https://access.redhat.com/solutions/7321>

## cron

```
cron
root      crontab
```

```
cron      /etc/crontab ←
/etc/cron.daily ←
/etc/cron.monthly ←
/etc/cron.deny ← crontab

/etc/cron.hourly ←
/etc/cron.weekly ←
/etc/cron.allow ← crontab
```

Step 1) crontab SUID가 SUID (crontab OS) \* crontab

```
# ls -l /usr/bin/crontab
# chmod 750 /usr/bin/crontab
```

Step 2) cron

```
# chown root <cron >
# chmod 640 <cron >
```

■ crontab Step 1) /etc/cron.d/cron.allow  
/etc/cron.d/cron.deny

```
#chown root /etc/cron.d/cron.allow
#chmod 640 /etc/cron.d/cron.allow
#chown root /etc/cron.d/cron.deny
#chmod 640 /etc/cron.d/cron.deny
```

Step 2) /etc/cron.d/cron.allow /etc/cron.d/cron.deny



NFS (NFS SID )

```
#ps -ef | egrep "nfs|statd|lockd"
root 3809 3721 0 08:44:40 ? 0:00 /usr/lib/nfs/nfsd
```

### Step 1) NFS

```
#systemctl stop nfs
#systemctl disable nfs
#kill -9 [PID]
```

### Step 2)

```
1.
#ls -al /etc/rc.d/rc*.d/* | grep nfs
2.
#mv /etc/rc.d/rc2.d/S60nfs /etc/rc.d/rc2.d/_S60nfs
```

## NFS

가

가

가

,

가 NFS  
, everyone

NFS  
/etc/exports

### Step 1) /etc/exports

가

가

```
( ) #/stand host1( IP ) host2
```

### Step 2)

nobody

```
# vi /etc/export
# /stand host1 (root_squash)
```

( )

“insecure”

### Step 3. NFS



```
#/etc/exportfs -u
#/etc/exportfs -a
```

### automountd

가 automountd 가 RPC(Remote Procedure Call)

root , 가

automountd

```
automountd
#ps -ef | grep automount(or autofs)
root 1131 1 0 jun 15 ? 32:11 /usr/sbin/automountd
Step 1) automountd
#kill -9 [PID]
Step 2) ,
1.
#ls -al /etc/rc.d/rc*.d/* | grep automount(or autofs)
2.
#mv /etc/rc.d/rc2.d/S28automountd /etc/rc.d/rc2.d/_S28automountd
```

### RPC

( , Dos, ) RPC

(Buffer Overflow), Dos, RPC

가 root

RPC : rpc.cmsd, rpc.ttdbserverd, sadmin, rusersd, walld, sprayd, rstatd, rpc.nisd, rexd, rpc.pcnfsd, rpc.statd, rpc.yppupdated, rpc.rquotad, kcms\_server, cachefsd

LINUX (inetd ) Step 1) /etc/inetd.conf # ( )

```
( ) rpc.cmsd/2-4 dgram rpc/udp wait root /usr/dt/bin/rpc.cmsd rpc.cmsd
( ) #rpc.cmsd/2-4 dgram rpc/udp wait root /usr/dt/bin/rpc.cmsd rpc.cmsd
```

Step 2) inetd

```
#ps -ef | grep inetd
root 141 1 0 15:03:22 ? 0:01 /usr/sbin/inetd -s
#kill -HUP 141
```

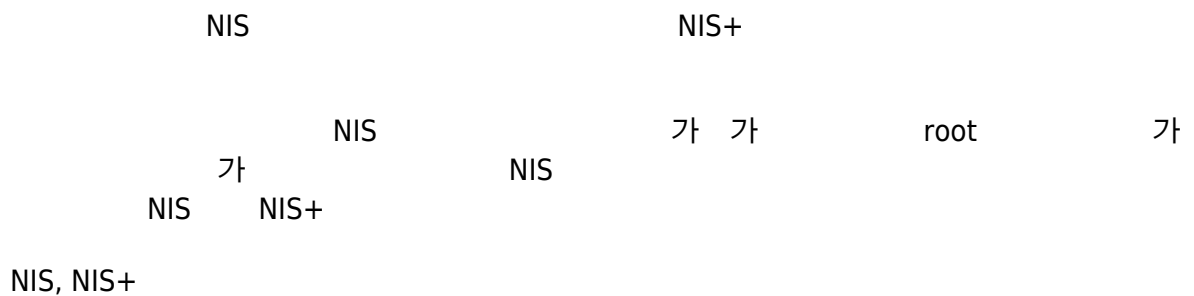
LINUX (xinetd ) Step 1) vi /etc/xinetd.d/ RPC  
Step 2) (Disable = yes )

```
service finger
{
  disable = yes
  socket_type = stream
  wait = no
-
}
```

Step 3) xinetd

```
#service xinetd restart
```

## NIS, NIS+



```
#ps -ef | egrep "ypserv|ypbind|ypxfrd|rpc.yppasswdd |rpc.yupdated"
root 3809 3721 0 08:44:40 ? 0:00 /usr/lib/nis/ypserv
```

Step 1) NFS

```
#kill -9 [PID]
```

Step 2) , 1.

```
#ls -al /etc/rc.d/rc*.d/* | egrep  
"ypserv|ypbind|ypxfrd|rpc.yppasswdd|rpc.yppupdated"
```

2.

```
#mv /etc/rc.d/rc2.d/S73ypbind /etc/rc.d/rc2.d/_S73ypbind
```

## tftp, talk

가

Linux [inetd]

```
#cat /etc/inetd.conf | grep "tftp|talk|ntalk"  
tftp dgram udp6 SRC nobody /usr/sbin/tftpd tftpd -n
```

Step 1) vi `"/etc/inetd.conf"`

```
#vi /etc/inetd.conf
```

Step 2) tftp, talk, ntalk

```
#tftp dgram udp6 SRC nobody /usr/sbin/tftpd tftpd -n  
#talk dgram udp wait root /usr/sbin/talkd talkd  
#ntalk dgram udp wait root /usr/sbin/talkd talkd
```

Step 3) inetd

```
#kill -HUP [inetd pid]
```

Linux [xinetd] tftp, talk, ntalk

```
#vi /etc/xinetd.d/tftp  
#vi /etc/xinetd.d/talk  
#vi /etc/xinetd.d/ntalk
```

Step 1) vi /etc/xinetd.d/ tftp, talk, ntalk

Step 2) (Disable = yes ) /etc/xinetd.d/tftp /etc/xinetd.d/talk  
/etc/xinetd.d/ntalk

```
service tftp
{
    socket_type = dgram
    protocol = udp
    wait = yes
    user = root
    server = /usr/sbin/in.tftpd
    server_args = -s /tftpboot
    disable = yes
}
```

Step 3) xinetd

```
#service xinetd restart
```

## Sendmail

Sendmail  
Sendmail

Sendmail (Buffer Overflow)  
가

1. Sendmail

```
#ps -ef | grep sendmail
```

2. Sendmail

```
#telnet localhost 25
```

Sendmail , <http://www.sendmail.org/> , OS

SMTP , 가  
 Dos  
 SMTP

```
#ps -ef | grep sendmail | grep -v "grep"
#cat /etc/mail/sendmail.cf | grep "R$\*" | grep "Relaying denied"
R$* $#error @$ 5.7.1 $: "550 Relaying denied"
```

Step 1) vi /etc/mail/sendmail.cf /etc/sendmail.cf

Step 2)

```
( ) #R$* $#error @$ 5.7.1 $: "550 Relaying denied"
( ) R$* $#error @$ 5.7.1 $: "550 Relaying denied"
```

Step 3) IP, domain, Email Address sendmail ( )

```
#cat /etc/mail/access
)
localhost.localdomain RELAY
localhost RELAY
127.0.0.1 RELAY
spam.com REJECT
```

Step 4) DB

```
#makemap hash /etc/mail/access.db < /etc/mail/access
```

### Sendmail

가 q SMTP Sendmail drop  
 가 q , Sendmail drop

## SMTP

SMTP

restrictqrun

```
#ps -ef | grep sendmail | grep -v "grep"
#grep -v '^ *#' /etc/mail/sendmail.cf | grep PrivacyOptions
```

Step 1) vi /etc/mail/sendmail.cf

Step 2) O PrivacyOptions= restrictqrun 가

```
( ) 0 PrivacyOptions=authwarnings, novrfy, noexpn
( ) 0 PrivacyOptions=authwarnings, novrfy, noexpn, restrictqrun
```

Step 3. Sendmail

## DNS

BIND

(2016.01 9.10.3-P2)  
(Buffer Overflow) DNS

DNS

BIND

```
#ps -ef | grep named
named -v
```

DNS

DNS

BIND

### 1. BIND

가 2.

BIND

- Inverse Query (Buffer Overflow) : BIND 4.9.7 BIND 8.1.2
- solinger (Denial of Service) : BIND 8.1
- Remote Execution of Code(Buffer Overflow) : BIND 4.9.5 to 4.9.10, 8.1, 8.2 to 8.2.6, 8.3.0 to 8.3.3
- Multiple Denial of Service: BIND 8.3.0 - 8.3.3, 8.2 - 8.2.6
- LIBRESOLV: buffer overrun(Buffer Overflow) : BIND 4.9.2 to 4.9.10
- OpenSSL (buffer overflow) : BIND 9.1, BIND 9.2 if built with OpenSSL(configure -with-openssl)
- libbind (buffer overflow) : BIND 4.9.11, 8.2.7, 8.3.4, 9.2.2
- DoS internal consistency check (Denial of Service) : BIND 9 ~ 9.2.0
- tsig bug (Access possible) : BIND 8.2 ~ 8.2.3
- complain bug (Stack corruption, possible remote access) : BIND 4.9.x
- sigdiv0 bug (Denial of service) : BIND 8.2, 8.2 patchlevel 1, 8.2.2
- srv bug(Denial of service): BIND 8.2, 8.2 patchlevel 1, 8.2.1, 8.2.2, 8.2.2 patchlevels 1-6
- next bug (Access possible) : BIND 8.2, 8.2 patchlevel 1,

8.2.1 • BIND 4.9.8 , 8.2.3 - TSIG  
 - nslookupComplain() - nslookupComplain() input validation -  
 information leak - sig bug Denial of service - naptr bug Denial of service -  
 maxcname bug denial of service

## DNS Zone Transfer

가 Zone Transfer ,

가 Zone Transfer Zone , ,

DNS /etc/named.conf allow-transfer xfrnets

```
#ps -ef | grep named | grep -v "grep"
#cat /etc/named.conf | grep 'allow-transfer'
#cat /etc/named.boot | grep "xfrnets"
```

< DNS > ■ BIND8 DNS (named.conf)

```
Options {
  allow-transfer ( IP);
};
```

■ BIND4.9 DNS (named.conf)

```
Options
xfrnets IP
```

< DNS > DNS (DNS SID )

```
#ps -ef | grep named
root 3809 3721 0 08:44:40 ? 0:00 /usr/sbin/in.named
```

DNS

```
#kill -9 [PID]
```

가 WEB

Indexes

```
#vi /[Apache_home]/conf/httpd.conf  
Options Indexes FollowSymLinks
```

“Indexes”

Step 1) vi `[Apache_home]/conf/httpd.conf`

```
#vi /[Apache_home]/conf/httpd.conf
```

Step 2) Options Indexes ( ) Option  
Indexes

```
<Directory />  
Options Indexes FollowSymLinks  
AllowOverride None  
Order allow, deny  
Allow from all  
</Directory>
```

( ) Option Indexes -Indexes

```
<Directory />  
Options Indexes ( -Indexes)  
AllowOverride None  
Order allow, deny  
Allow from all  
</Directory>
```

Apache root



root 가 , root  
 root 가 가  
 Apache (User Group)

```
#vi /[Apache_home]/conf/httpd.conf
User [root가 ]
Group [root가 ]
```

Step 1) User & Group User & Group root가  
 가

User [root가 ] Group [root가 ]

Step 2) Apache

가  
 가 가 가  
 AllowOverride Authconfig

```
#vi /[Apache_home]/conf/httpd.conf
AllowOverride None
```

AllowOverride None

Step 1) vi /[Apache\_home]/conf/httpd.conf

```
#vi /[Apache_home]/conf/httpd.conf
```

Step 2) AllowOverride AuthConfig

```
( ) AllowOverride 'None'
<Directory "/usr/local/apache2/htdocs">
  AllowOverride None
  Allow from all
```

```
</Directory>

( ) AllowOverride 'AuthConfig'
<Directory "/usr/local/apache2/htdocs">
  AllowOverride AuthConfig
  Allow from all
</Directory>
```

Step 3) .htaccess ( )

```
AuthName " "
AuthType Basic
AuthUserFile /usr/local/apache/test/.auth
Require valid-user
```

```
AuthName ( ) AuthType (Basic
, Digest) AuthUserFile ( )
( ) Require , AuthGroupFile
```

Step 4)

```
htpasswd -c /usr/local/apache/test/.auth test
New password:
Re-type new password:
Adding password for user test
[root@localhost apache]#
```

Step 5) Apache

```
Apache
Apache htdocs
```

```
#ls -ld /[Apache_home]/htdocs/manual
#ls -ld /[Apache_home]/manual
```

가

Step 1) #ls

```
#rm -rf /[Apache_home]/htdocs/manual
#rm -rf /[Apache_home]/manual
```

Step 2) #ls

```
#ls -ld /[Apache_home]/htdocs/manual
#ls -ld /[Apache_home]/manual
```

Step 3) 가

가

, aliases

(DocumentRoot) root (/)  
 root 가

Options FollowSymLinks

```
#vi /[Apache_home]/conf/httpd.conf
Options Indexes FollowSymLinks
```

Step 1) vi /[Apache\_home]/conf/httpd.conf

```
#vi /[Apache_home]/conf/httpd.conf
```

Step 2) Options FollowSymLinks

```
( ) Options FollowSymLinks
<Directory />
  Options Indexes FollowSymLinks
  AllowOverride None
  Order allow, deny
  Allow from all
</Directory>
```

```
( ) Options FollowSymLinks -FollowSymLinks
<Directory />
  Options FollowSymLinks -FollowSymLinks
  AllowOverride None
  Order allow, deny
  Allow from all
</Directory>
```

가

가 가

### LimitRequestBody

```
#vi /[Apache_home]/conf/httpd.conf
LimitRequestBody 5000000
( 5M )
```

Step 1) vi /[Apache\_home]/conf/httpd.conf

```
#vi /[Apache_home]/conf/httpd.conf
```

Step 2) LimitRequestBody

```
)
<Directory />
LimitRequestBody 5000000 ( " " 5M :byte)
</Directory>
```

가

가

OS

가

가

, 가 가

DocumentRoot

```
#vi /[Apache_home]/conf/httpd.conf
DocumentRoot "/usr/local/apache/htdocs"
DocumentRoot "/usr/local/apache2/htdocs"
DocumentRoot "/var/www/html"
```

DocumentRoot가

Step 1) vi /[Apache\_home]/conf/httpd.conf

```
#vi /[Apache_home]/conf/httpd.conf
```

Step 2) DocumentRoot /usr/local/apache/htdocs, /usr/local/apache2/htdocs, /var/www/html 가

```
DocumentRoot " "
```

### ssh

SSH

/

Telnet, FTP

가

/

Step 1) SSH

```
#service start sshd
#service start ssh
```

Step 2) SSH 가 OS SSH

### ftp

FTP

가

FTP

```
( , ) 가
ftp #ps -ef | grep ftp vsftpd ProFTP (vsftpd, proftpd
SID ) #ps -ef | egrep "vsftpd|proftpd" root 3809 3721 0 08:44:40 ? 0:00 /usr/sbin/vsftpd
"ftp" vsftpd ProFTP
# service vsftpd(proftpd) stop /etc/rc.d/init.d/vsftpd(proftpd) stop kill -9 [PID]
```

## ftp shell

```
FTP ftp (Shell)
ftp #cat /etc/passwd ftp:x:500:100:Anonymous FTP
USER:/var/ftp:/sbin/bash "passwd" "/bin/false"가
Step 1) vi "/etc/passwd" Step 2) ftp
/bin/false ( ) ftp:x:500:100:Anonymous FTP
USER:/var/ftp:/sbin/bash ( ) ftp:x:500:100:Anonymous FTP USER:/var/ftp:/bin/false Step 3) #
usermod -s /bin/false [ ID] 가 * Step 2 Step3 usermod
```

## Ftpusers

```
가 ftp ftpusers
ftpusers 가 FTP 가
ftpusers #ls -al /etc/ftpusers #ls -al
/etc/ftpd/ftpusers rw-r-- root <ftpusers > "ftpusers" 가 root가
640 가 FTP ftpusers
FTP /etc/ftpusers , /etc/ftpd/ftpusers ProFTP /etc/ftpusers , /etc/ftpd/ftpusers vsFTP
/etc/vsftpd/ftpusers, /etc/vsftpd/user_list , /etc/vsftpd.ftpusers, /etc/vsftpd.user_list Step 1)
"/etc/ftpusers" #ls -l /etc/ftpusers Step 2) "/etc/ftpusers"
( root, 640) #chown root /etc/ftpusers #chmod 640 /etc/ftpusers * vsFTP
FTP (1) vsftpd.conf userlist_enable=YES : vsftpd.ftpusers,
vsftpd.user_list ftpusers, user_list (ftpusers, user_list
) (2) vsftpd.conf userlist_enable=NO ,
: vsftpd.ftpusers ftpusers (ftpusers
)
```

## Ftpusers

```
root FTP root
FTP 가
#cat /etc/ftpusers #cat /etc/ftpd/ftpusers #root ( ) , root ProFTP #cat
/etc/proftpd.conf RootLogin on vsFTP #cat /etc/vsftp/ftpusers #cat /etc/vsftp/user_list #cat
/etc/vsftpd.ftpusers #cat /etc/vsftpd.user_list #root ( ) , root root
FTP 가 < FTP
```

```

root > Step 1) vi ftpusers ("/etc/ftpusers"
"/etc/ftpd/ftpusers") #vi /etc/ftpusers /etc/ftpd/ftpusers Step 2) ftpusers root 가
, ( ) #root , root ( ) root < ProFTP ROOT
> Step 1) vi proftpd ("/etc/proftpd.conf") #vi /etc/proftpd.conf Step
2) proftpd ("/etc/proftpd.conf") RootLogin off ( ) RootLogin on ( )
RootLogin off Step 3) ProFTP < vsFTP ROOT > Step 1) vi
ftpusers ("/etc/vsftp/ftpusers" , "/etc/vsftpd.ftpusers") #vi /etc/vsftp/ftpusers
Step 2) ftpusers root 가 , ( ) #root , root ( )
root Step 3) vsFTP * vsFTP FTP (1) vsftpd.conf
userlist_enable=YES : vsftpd.ftpusers, vsftpd.user_list ftpusers, user_list (ftpusers,
user_list ) (2) vsftpd.conf userlist_enable=NO ,
: vsftpd.ftpusers ftpusers (ftpusers )

```

### at

```

root at
at /etc/at.allow ← at /etc/at.deny ←
at "cron"
Step 1) at (at OS ) * at
SUID가 SUID # ls -l /usr/bin/at # chmod 4750 /usr/bin/at Step 2) cron
# chown root <at > # chmod 640 <at > ■ at
Step 1) "/etc/cron.d/at.allow" "/etc/cron.d/at.deny"
#chown root /etc/cron.d/at.allow #chmod 640 /etc/cron.d/at.allow #chown root
/etc/cron.d/at.deny #chmod 640 /etc/cron.d/at.deny Step 2) "/etc/cron.d/at.allow"
"/etc/cron.d/at.deny" # cat /etc/at.allow (at )
# cat /etc/at.deny (at )

```

### SNMP

```

SNMP 가 SNMP
Step 1) ps -ef | grep snmp root 2028 1 0 Nov 24 ? 0:00
/usr/sbin/snmpd Step 2) snmp #service snmpd stop

```

### SNMP

```

Community String Public, Private 가
SNMP Community String
Community String Default public, private 가 ,
String ,
Dos 가 #vi /etc/snmp/snmpd.conf com2sec
notConfigUser default public "public" , "private"
Step 1) vi SNMP
#vi /etc/snmp/snmpd.conf Step 2) Community String ( ) ( )
) com2sec notConfigUser default public ( ) com2sec notConfigUser default < > Step
3) # service snmpd restart

```

```
가 , 가
OS
OS Step 1)
: vi "/etc/motd" #vi /etc/motd Step 2)
Telnet : vi "/etc/issue.net" #vi /etc/issue.net
Step 3) FTP : vi "/etc/vsftpd/vsftpd.conf"
#vi /etc/vsftpd/vsftpd.conf ftpd_banner=" " Step 4) SMTP : vi
"/etc/mail/sendmail.cf" #vi /etc/mail/sendmail.cf O Smt
GreetingMessage=" " Step 5) DNS : vi "/etc/named.conf"
#vi /etc/named.conf
```

## NFS

```
가 NFS 가
가 #ls -al
/etc/exports rw-r-r- root <nfs > "NFS" 가 root가
644 가 "/etc/exports"
( root, 644) #chown root /etc/exports #chmod 644 /etc/exports
```

## expn, vrfy

```
SMTP expn, vrfy
VRFY, EXPN ,
noexpn, novrfy #vi
/etc/mail/sendmail.cf O PrivacyOptions= (noexpn, novrfy goaway ) * goaway
: authwarnings, noexpn, novrfy, noverb, needmailhelo, needexpnhelo, needvrfyhelo, nobodyreturn
< > Step 1) vi "/etc/mail/sendmail.cf"
( , AIX /etc/sendmail.cf) #vi /etc/mail/sendmail.cf Step 2) "/etc/mail/sendmail.cf" noexpn,
novrfy 가 ( ) O PrivacyOptions=authwarnings ( ) O
PrivacyOptions=authwarnings, noexpn, novrfy goaway Step 3) SMTP <
> Step 1) #ps -ef | grep sendmail root 441 1 0 Sep19 ? 00:00:00
sendmail: accepting connections #kill -9 [PID] Step 2) SMTP 가
OS 1. #ls -al /etc/rc*.d/* | grep sendmail 2. #mv
/etc/rc2.d/S88sendmail /etc/rc2.d/_S88sendmail
```

## Apache

```
HTTP , OS
가 가
ServerTokens, ServerSignature # vi
```



```

/[Apache_Home]/conf/httpd.conf ServerTokens Prod ServerSignature off "httpd.conf"
ServerTokens, ServerSignature      가
      가 Step 1) vi                  /[Apache_home]/conf/httpd.conf      #vi
/[Apache_home]/conf/httpd.conf Step 2)      ServerTokens      Prod
      ServerSignature Off      Off      (      ) <Directory /> Options Indexes
FollowSymlinks ServerTokens Prod ServerSignature Off -      - </Directory> ServerTokens
      Prod      Apache Min      Apache/2.2.3 OS
      +      Apache/2.2.3 (CentOS) (      ) Full      Apache/2.2.3 (CentOS)
DAV/2 PHP/5.16

```

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