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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(	FTP)	anonymous	가
	가 local exploit		

### 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 가 NET Backup

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.hourly ←
/etc/cron.daily ← /etc/cron.weekly ←
/etc/cron.monthly ← /etc/cron.allow ← crontab
/etc/cron.deny ← 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, cachefs

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+

NIS NIS+  
가 NIS 가 가 root 가  
NIS 가 NIS+ NIS  
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 8.2, 8.2 p1, 8.2.1
- 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,
- fdmax (Denial of Service) : BIND 8.1

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>
```

OS

가

가

```

, 가 가 DocumentRoot #vi 가 가
/[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|proftp" root 3809 3721 0 08:44:40 ? 0:00 /usr/sbin/vsftpd
"ftp" vsftpd ProFTP
# service vsftpd(proftp) stop /etc/rc.d/init.d/vsftpd(proftp) stop kill -9 [PID]

```

### ftp shell

```

FTP ftp (Shell)
, ftp 가
ftp /bin/false #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 가
ftpusers 가 FTP 가
/etc/ftpd/ftpusers rw-r-- root <ftpusers > "ftpusers" #ls -al /etc/ftpusers #ls -al
640 가 가 root가
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
가 ftp root 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

```
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
Step 1) ps -ef | grep snmp
/usr/sbin/snmpd
Step 2) snmp

```

```

가
root 2028 1 0 Nov 24 ? 0:00
#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
OS
OS
: vi "/etc/motd"
Telnet : vi "/etc/issue.net"
Step 3) FTP : vi "/etc/vsftpd/vsftpd.conf"
#vi /etc/vsftpd/vsftpd.conf ftpd_banner="
"/etc/mail/sendmail.cf"
GreetingMessage=" " Step 4) SMTP : vi
#vi /etc/mail/sendmail.cf O Smt
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"
644 가
( root, 644) #chown root /etc/exports #chmod 644 /etc/exports
가 root가
"/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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