### **Lab 1:**

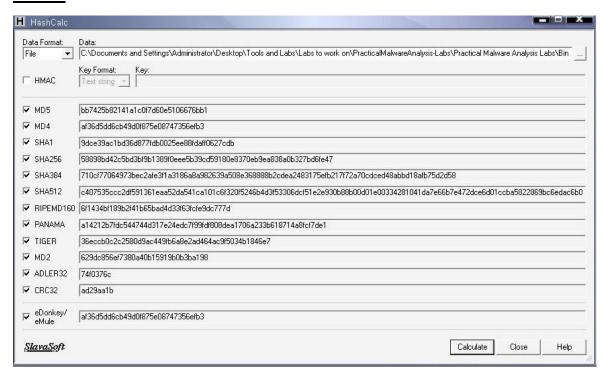


Figure 1 Lab01-1

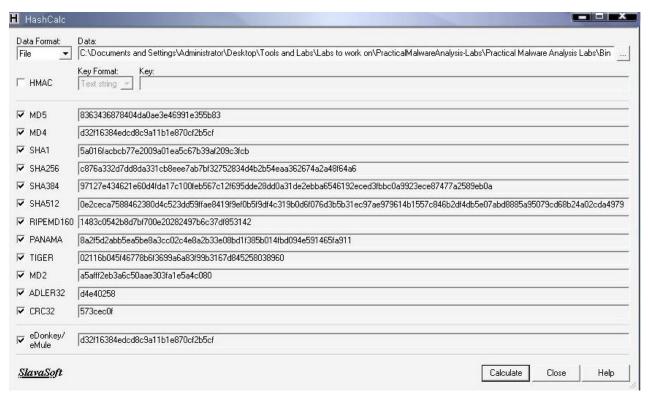


Figure 2 Lab01-2

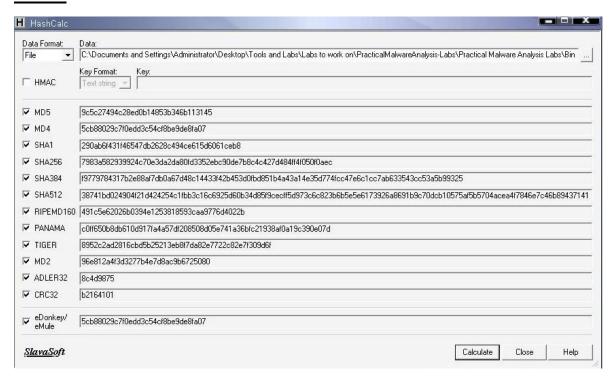


Figure 3 Lab01-3

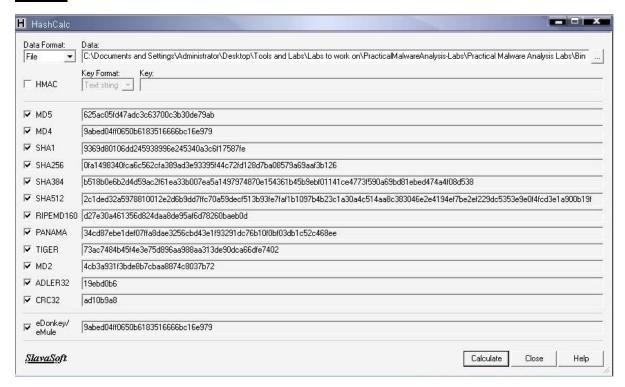


Figure 4 Lab01-4

## **Lab 1:**



Figure 5 Lab01-1

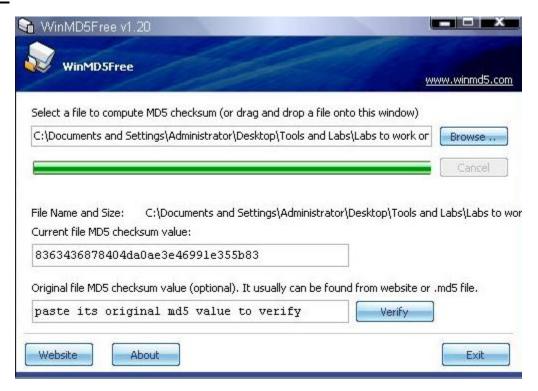


Figure 6 Lab01-2

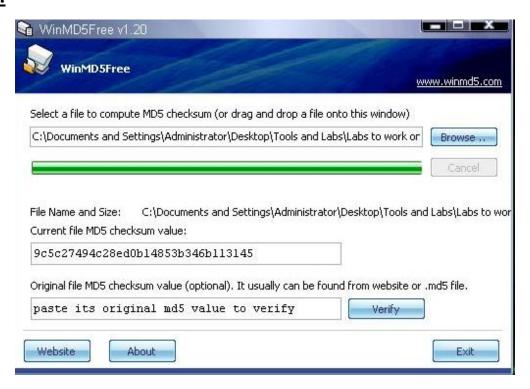


Figure 7 Lab01-3



Figure 8 Lab01-4

## **Lab 1:**

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\St rings\strings Lab01-01.exe

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

**This program cannot be run in DOS mode.
Richm
.text
.rdata
e.data
e.data
e.data
0.[

\begin{align*}
\text{UW,j} \\
\text{e,jj} \\
\text{e,jj} \\
\text{o} \
```

Figure 9 Lab01-1

Figure 10 Lab01-2

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\St rings\strings Lab01-02.exe

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

!This program cannot be run in DOS mode.

Rich
UPX0
UPX1
UPX2
3.04
UPX!
AI3
h/0
L5,
QII
'' z
RU5
u+W
-hP
t=p
sHR
!Pd
S'
a\'Y
teE
DmM
;01
PQ6
C/33h
```

Figure 11 Lab01-3

Figure 12 Lab01-4

### **Compress**

### **Lab 1:**

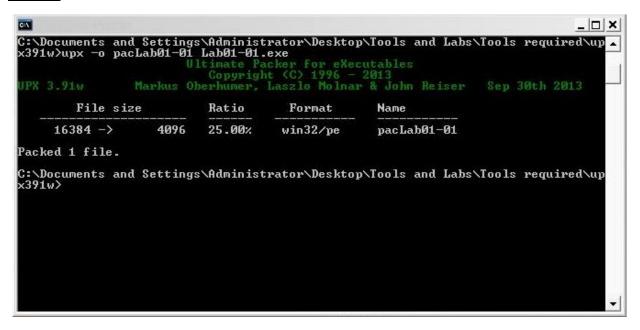


Figure 13 Lab01-1

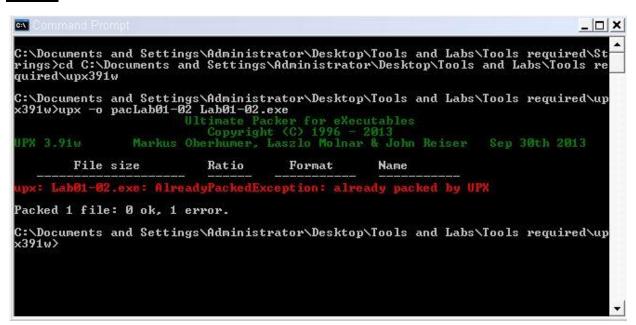


Figure 14 Lab01-2

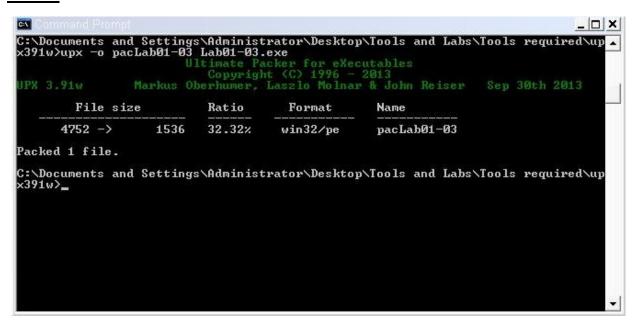


Figure 15 Lab01-3

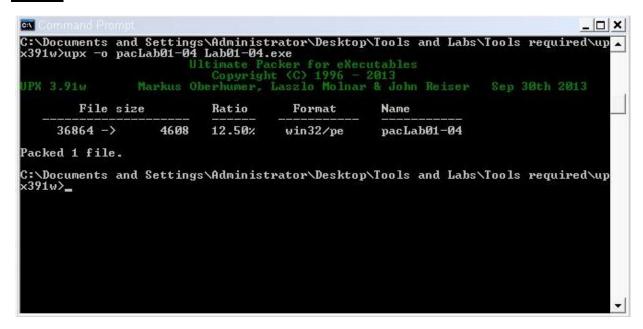


Figure 16 Lab01-4

### **Uncompress**

### **Lab 1:**

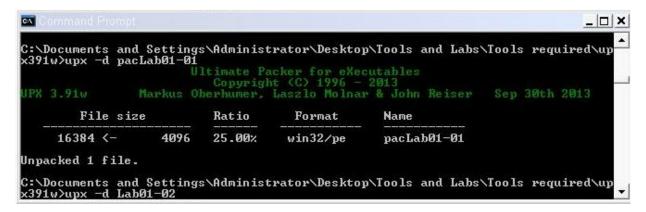


Figure 17 Lab01-1

### **Lab 2:**

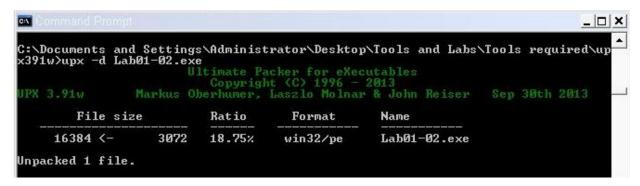


Figure 18 Lab01-2

## **Lab 3:**



Figure 19 Lab01-3

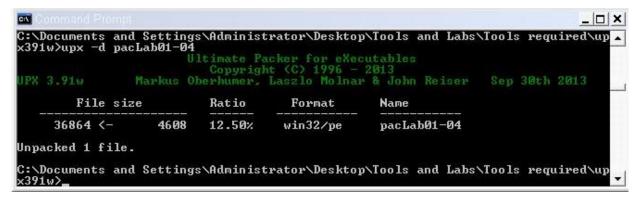


Figure 20 Lab01-4

## **Compressed Binaries Using Strings**

### **Lab 1:**

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\Strings\strings pacLab01-01

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

!This program cannot be run in DOS mode.
Richm
UPX0
UPX1
UPX2
3.91
UPX2
3.91
UPX!
uIU
^[
C+44K7
UVWj
)33E
|$ u
S}g
f gh 0
II:
```

Figure 21 Lab01-1

Figure 22 Lab01-2

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\St rings\strings pacLab01-03

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

!Windows Program
$PE
UPX0
UPX1
UPX2
3.91
UPX2
3.91
VPX!
RtQ
T /
PEL
e4cW
/'>s
u A
Glu
PTj
XPIPSW
KERNEL32.DLL
LoadLibraryA
```

Figure 23 Lab01-3

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\St_rings\strings pacLab01-04

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

!This program cannot be run in DOS mode.
Rich
UPX0
UPX1
.rsrc
3.91
UPX!
"Pj
_n",1
tfee
g?g
hes
ou6
FFCv
43w
h1$p0
/6Yen !
9'R
```

Figure 24 Lab01-4

## **Uncompressed Binaries Using Strings**

### **Lab 1:**

Figure 25 Lab01-1

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\St \rings\strings pacLab01-02

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

!This program cannot be run in DOS mode.
Rich
.text
.rdata
e.data
e.data
e.jj
h(00
e
Uh(00
e
Ujjjjj
L5,j
ejjjj
L5,j
ejjjj
L5,j
ejjjj
T5
5
e
C C
e
u+W
```

Figure 26 Lab01-2

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\Strings\strings pacLab01-03

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

!Windows Program
$PE
UPX0
UPX1
UPX2
3.91
UPX2
RtQ
I /
PEL
e4cW
/'>s
u A
GIu
PTj
XPTPSW
KERNEL32.DLL
LoadLibraryA
```

Figure 27 Lab01-3

Figure 28 Lab01-4

# **Original Binaries Using Strings**

### **Lab 1:**

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\Strings\strings Lab01-01.exe

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

*This program cannot be run in DOS mode.
Richm
.text
.rdata
e.data
e.data
e.data
0.[

\[ \text{UVW}_j \)
\[ \text{e}_j \)
\[ \text{j}_j \)
\[ \text{b}_j \)
\[ \text{VUQ} \)
\[ \text{e}_j \)
\[ \text{UVQ} \)
\[ \text{e}_j \)
\[ \text{VUQ} \)
\[ \text{e}_j \)
\[ \text{VUQ} \)
\[ \text{e}_j \)
\[ \text{VUQ} \)
\[ \text{e}_j \)
\[ \text{VUW} \)
\[ \text{e}_j \)
\[
```

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\St rings\Strings Lab01-02.exe

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

*This program cannot be run in DOS mode.

UPX0
UPX1
UPX2
3.04
UPX!
AI3
h<0
L$
,
QII
v=
nP
t=p
sHR
Pd
S'
a\'Y
tee
DmM
:01
P96
C23h
```

```
C:\Documents and Settings\Administrator\Desktop\Tools and Labs\Tools required\St rings\strings Lab01-02.exe

Strings v2.53 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

!This program cannot be run in DOS mode.
Rich
UPX0
UPX1
UPX2
3.04
UPX2
4.13
h(0)
1.5.
Q11
v z
RU$
u+W
.hP
t=p
sHR
!Pd
S'
a\'Y
teEE
DomM
.901
PQ6
(C33h
```

## **<u>Lab</u>** 4: