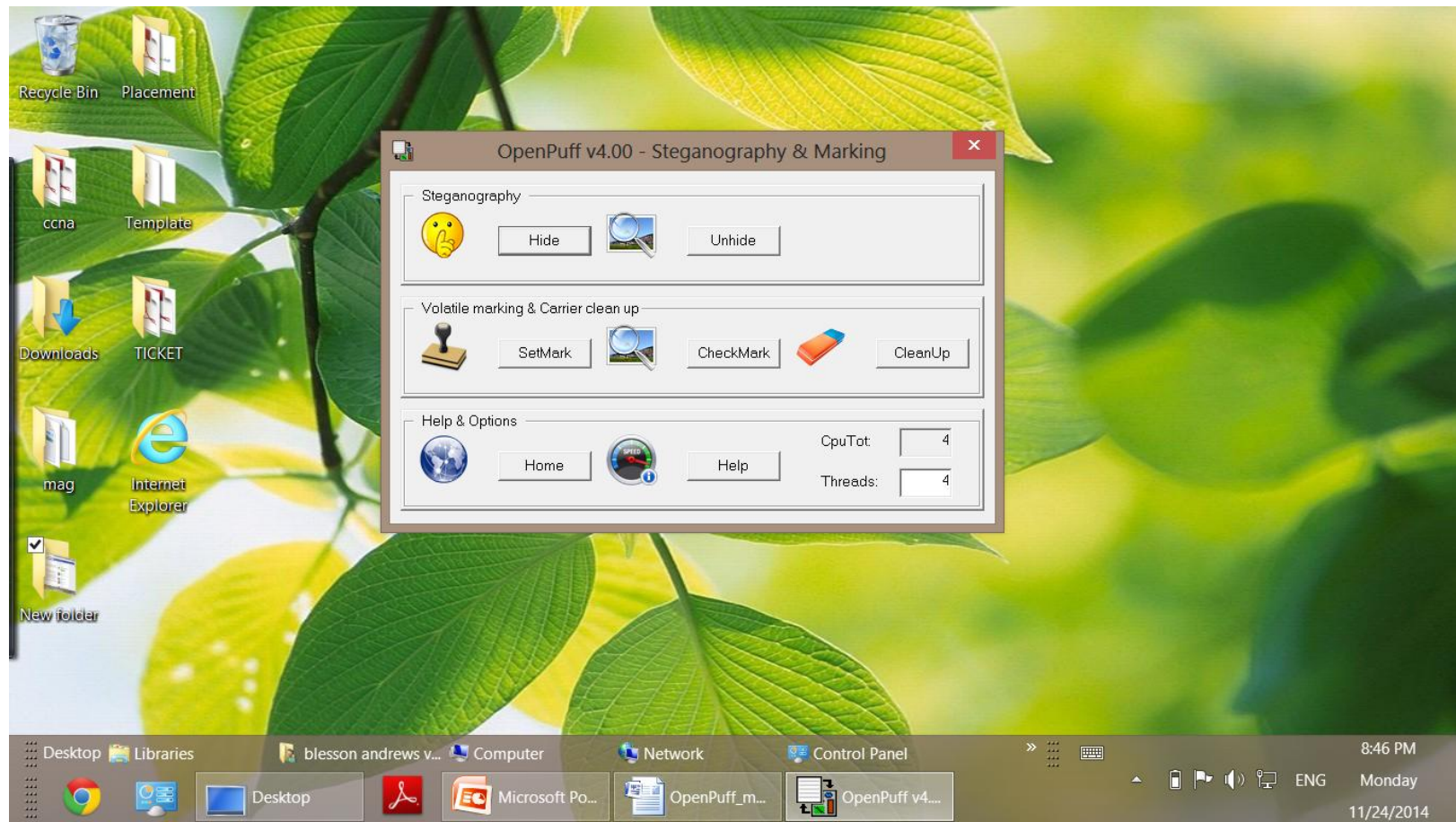


# Sample Solution

# Openpuff Start Screen: Click Hide



## 3 different passwords entered in the following section of new screen

(1) Insert 3 uncorrelated data passwords (Min: 8, Max: 32)

Cryptography	(A)	<input type="password"/>	(B)	<input type="password"/>		
Scrambling	(C)	<input type="password"/>	Enable (B)	<input checked="" type="checkbox"/>	(C)	<input checked="" type="checkbox"/>
Passwords check	<div>H(A, B) H(A, C) H(B, C) = { 31%, 31%, 28% }</div>					

$H(X, Y)$  = Hamming distance (X) (Y)  $\geq 25\%$

# Secret Message Uploaded

(2) Data (Max: 256Mb)





Target	<input type="text" value="E:\bav\secret.txt"/>	<input type="button" value="Browse"/>
Size	<input type="text" value="10 + name(10) + data(7) bytes"/>	

# Carrier files Uploaded and shuffled

(3) Carrier selection [Order sensitive]

(Name) Sort by name / (Bytes) Sort by bytes

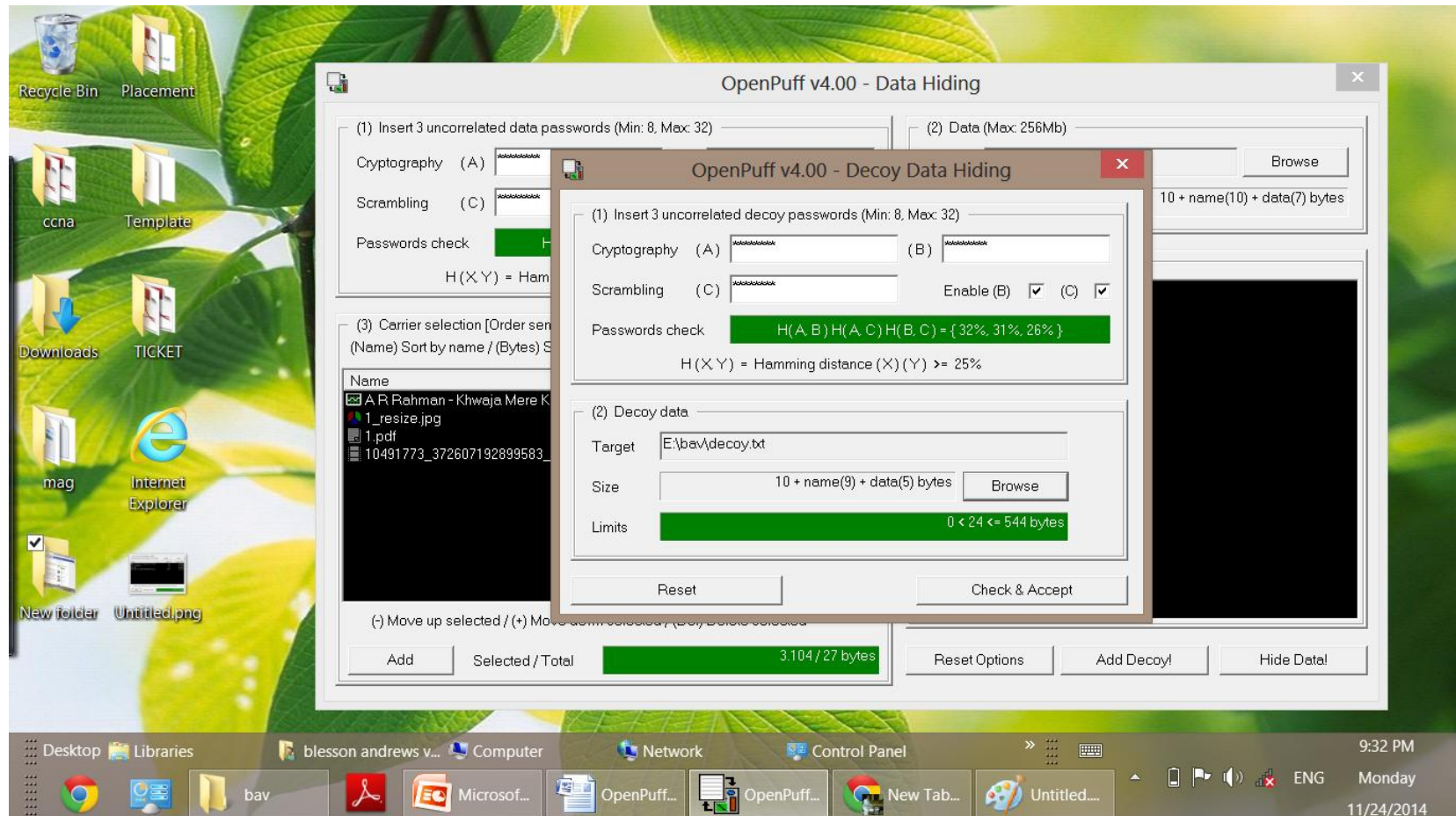
Shuffle Clear

Name	Bytes	Chain Order
 A R Rahman - Khwaja Mere Khwaja.m...	544	# 00000
 1_resize.jpg	176	Unused
 1.pdf	64	Unused
 10491773_372607192899583_752721...	2.320	Unused

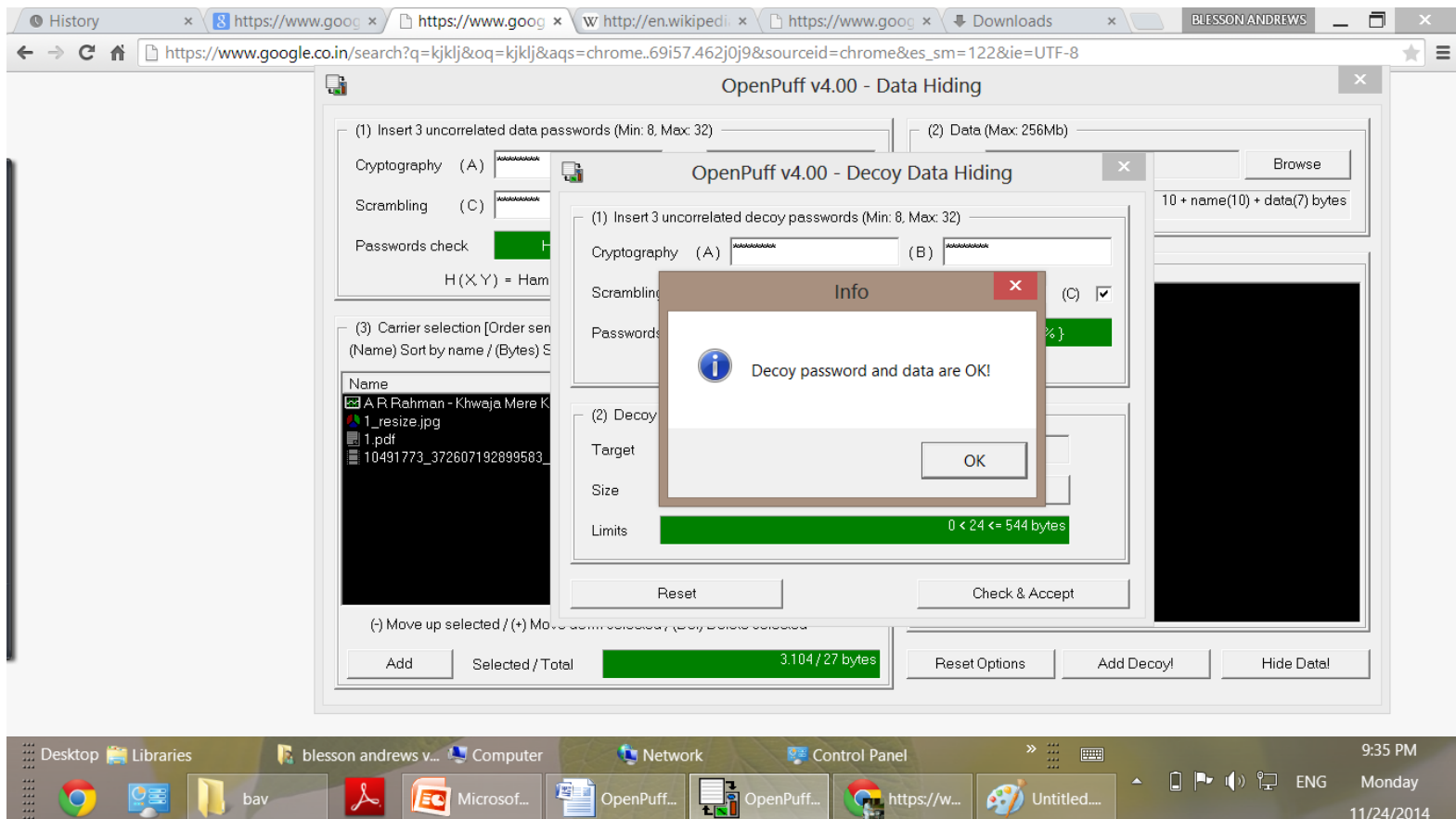
(-) Move up selected / (+) Move down selected / (Del) Delete selected

Add Selected / Total 3.104 / 141 bytes

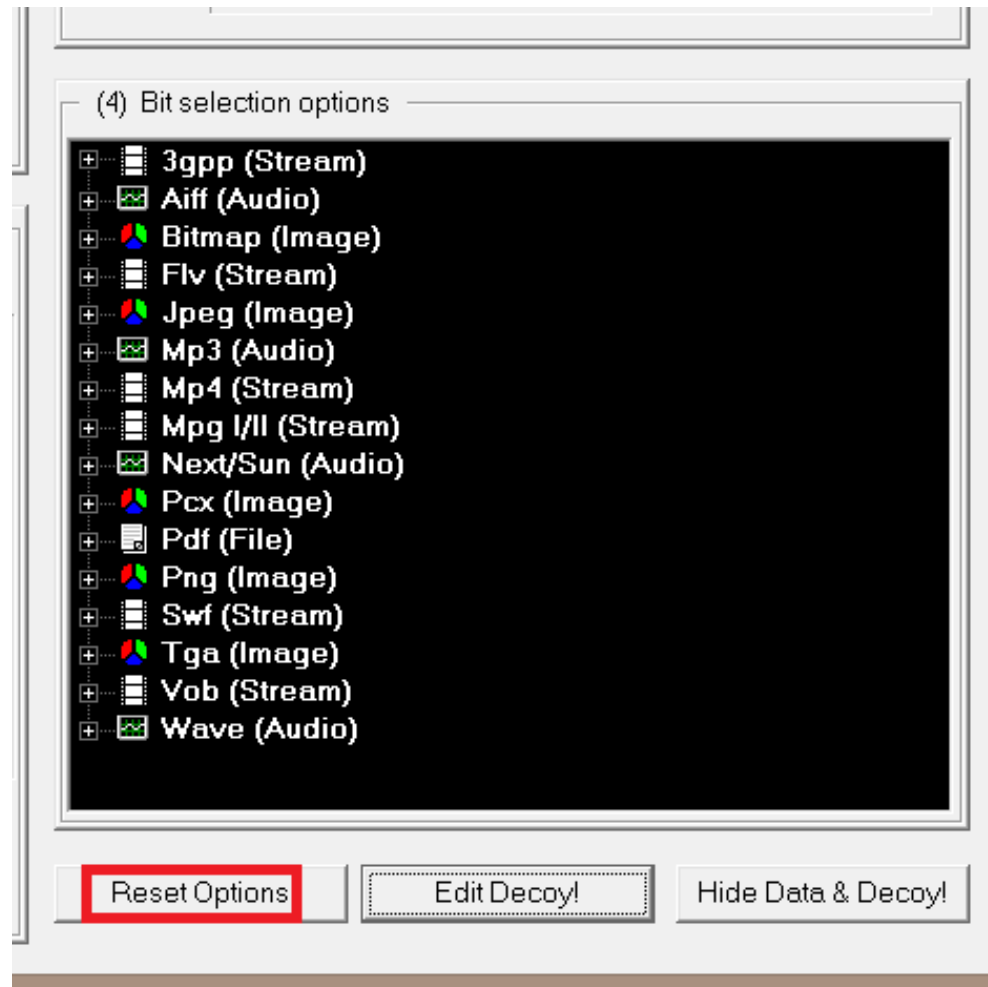
# Adding a Decoy



# Decoy password and message set

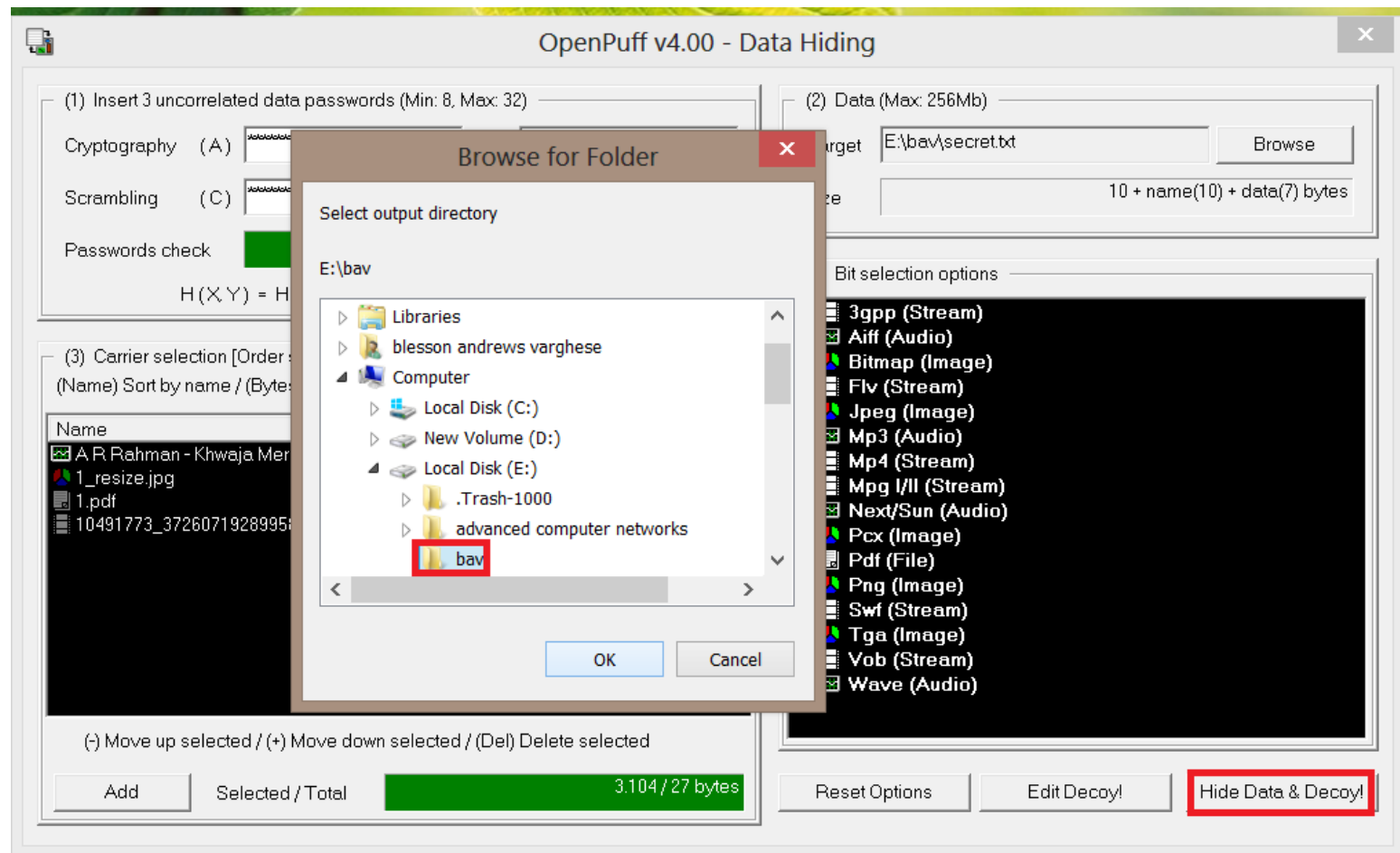


# Reset All bit Selection to Normal

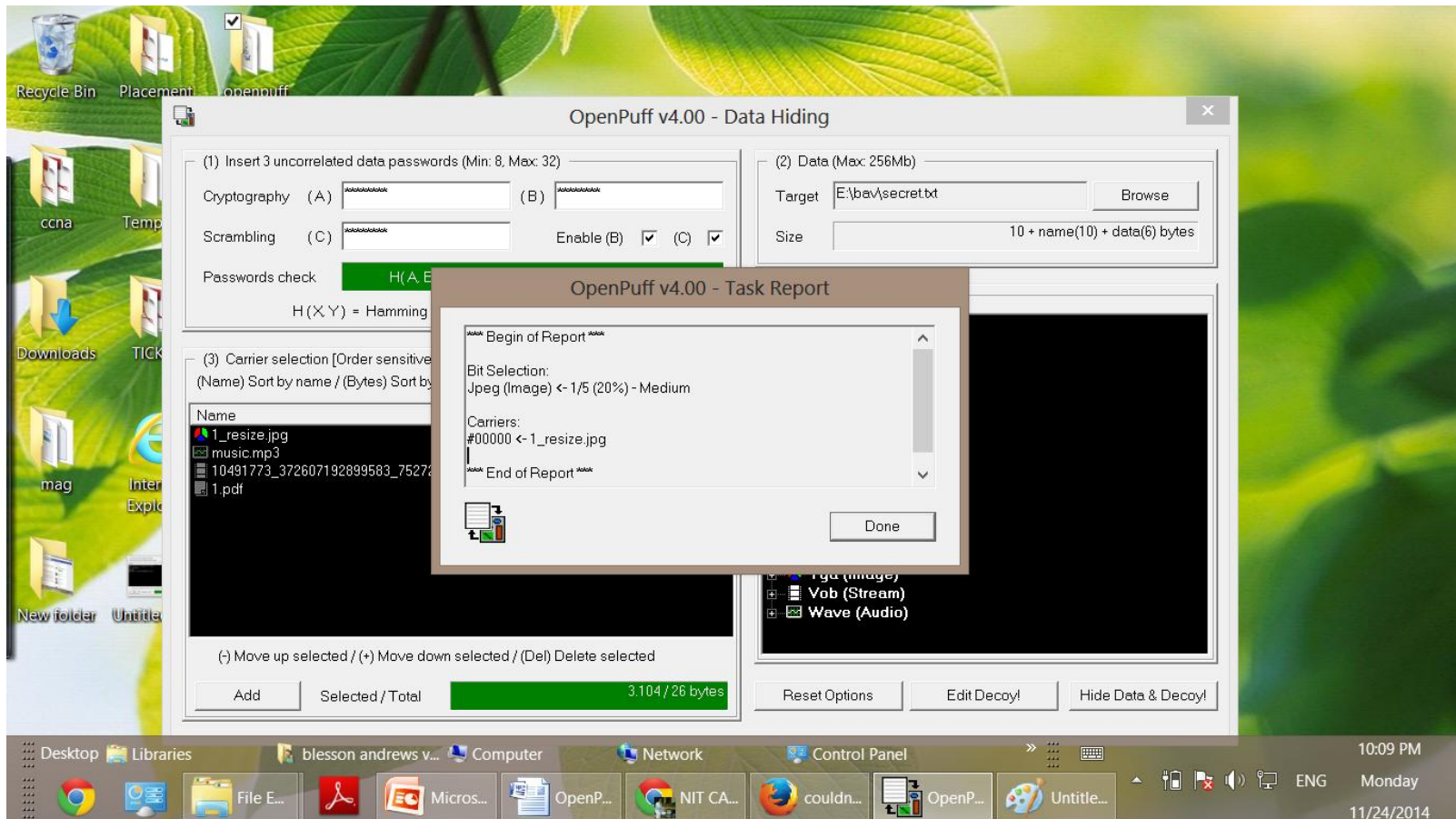




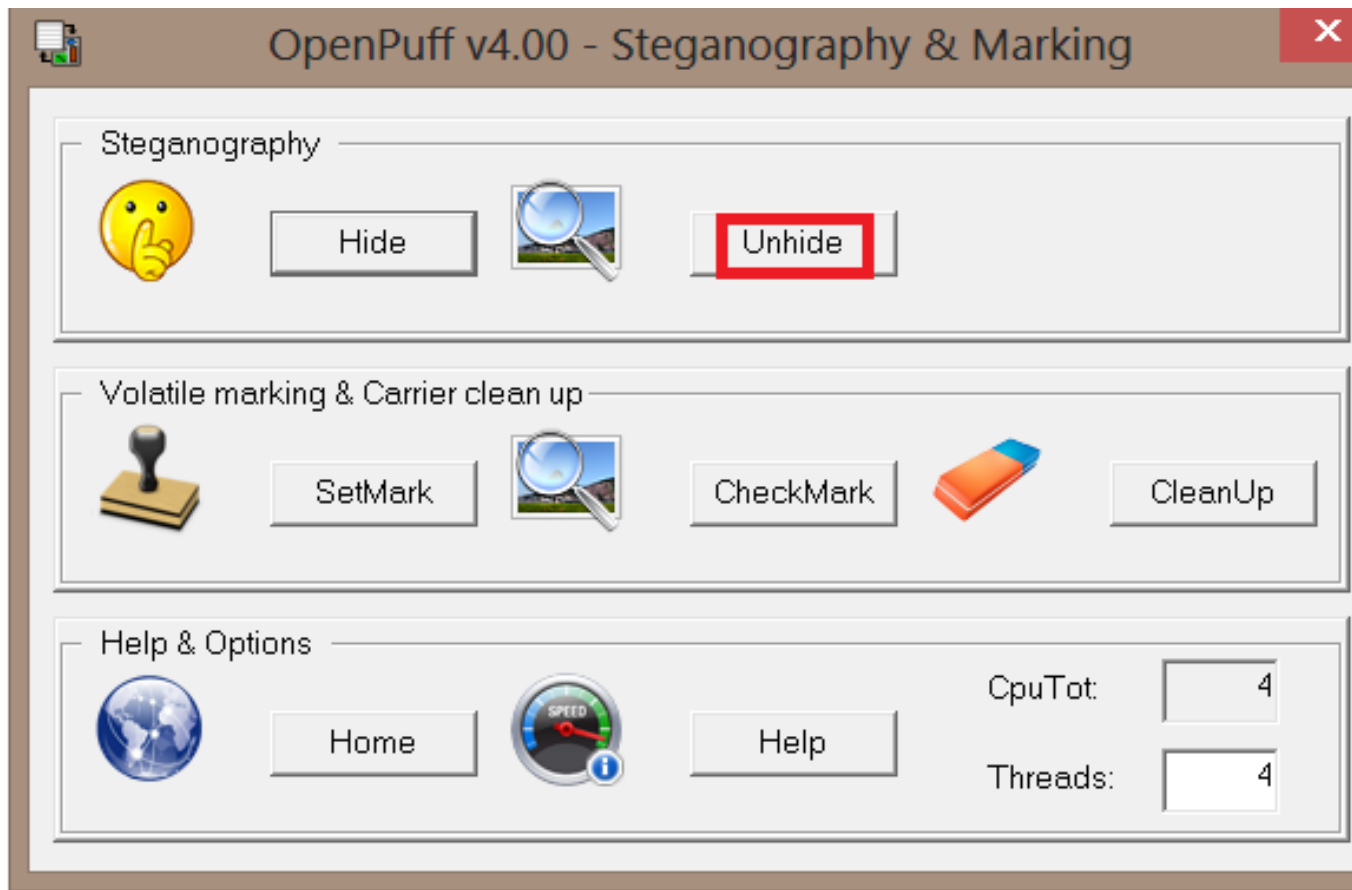
# Hide Data & select output directory



# Save the Task Report



# Unhiding Data



# Enter 3 passwords and carrier file and Earlier set Bit selector options

OpenPuff v4.00 - Data Unhiding

(1) Insert 3 uncorrelated passwords (Min: 8, Max: 32)

Cryptography (A)  (B)

Scrambling (C)  Enable (B) ☒ (C) ☒

Passwords check  **$H(A, B) H(A, C) H(B, C) = \{31\%, 31\%, 28\%\}$**

$H(X, Y) = \text{Hamming distance } (X) (Y) \geq 25\%$

(2) Carrier selection [Order sensitive]

(Name) Sort by name / (Bytes) Sort by bytes

Name	Bytes	Chain Order
1_resize.jpg	176	# 00000

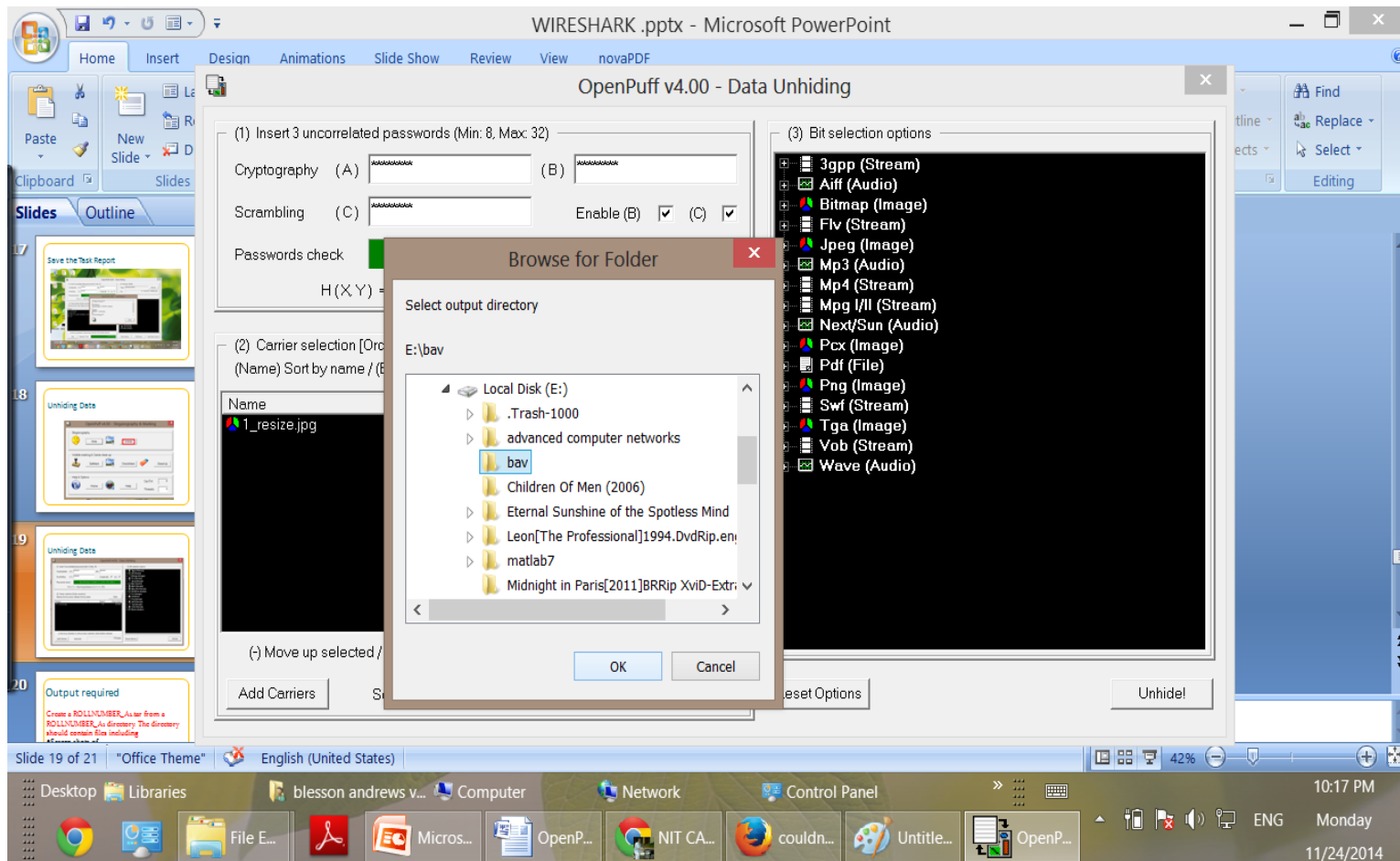
(-) Move up selected / (+) Move down selected / (Del) Delete selected

Selected  176 bytes

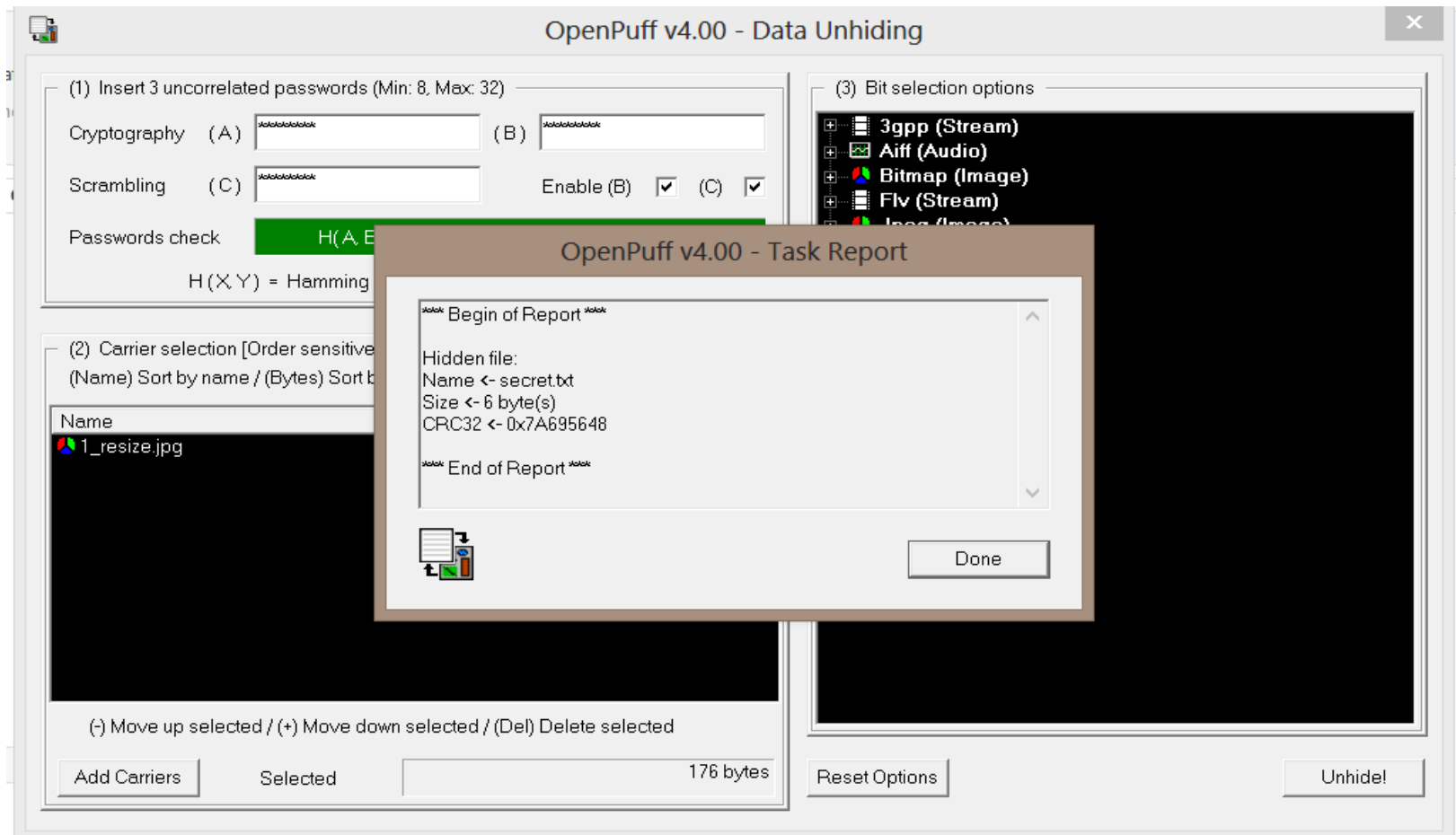
(3) Bit selection options

- ☒ 3gpp (Stream)
- ☒ Aiff (Audio)
- ☒ Bitmap (Image)
- ☒ Flv (Stream)
- ☒ Jpeg (Image)
- ☒ Mp3 (Audio)
- ☒ Mp4 (Stream)
- ☒ Mpg I/II (Stream)
- ☒ Next/Sun (Audio)
- ☒ Pcx (Image)
- ☒ Pdf (File)
- ☒ Png (Image)
- ☒ Swf (Stream)
- ☒ Tga (Image)
- ☒ Vob (Stream)
- ☒ Wave (Audio)

# Specify the O/p Directory



# Save the Task Report



# Instead of Correct Password, An attacker Entering Decoy Password

WIRESHARK .pptx - Microsoft PowerPoint

OpenPuff v4.00 - Data Unhiding

(1) Insert 3 uncorrelated passwords (Min: 8, Max: 32)

Cryptography (A)  (B)

Scrambling (C)  Enable (B) ☒ (C) ☒

Passwords check **H(A,B) H(A,C) H(B,C) = { 32%, 31%, 26% }**

$H(X,Y) = \text{Hamming distance}(X)(Y) \geq 25\%$

(2) Carrier selection [Order sensitive]  
(Name) Sort by name / (Bytes) Sort by bytes

Name	Bytes	Chain Order
1_resize.jpg	176	# 00000

(-) Move up selected / (+) Move down selected / (Del) Delete selected

Selected

(3) Bit selection options

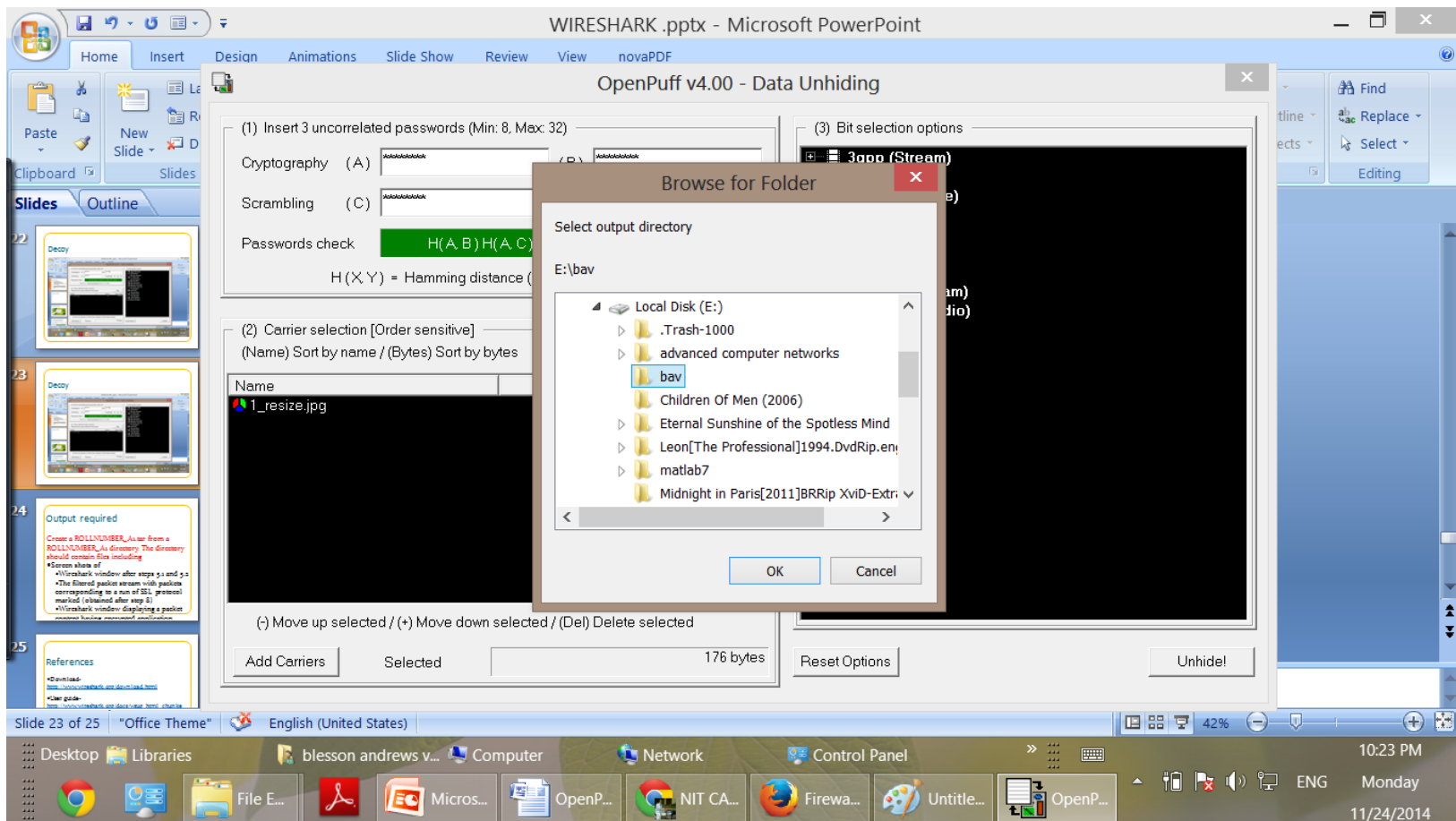
- ☒ 3gpp (Stream)
- ☒ Aiff (Audio)
- ☒ Bitmap (Image)
- ☒ Flv (Stream)
- ☒ Jpeg (Image)
- ☒ Mp3 (Audio)
- ☒ Mp4 (Stream)
- ☒ Mpg I/II (Stream)
- ☒ Next/Sun (Audio)
- ☒ Pcx (Image)
- ☒ Pdf (File)
- ☒ Png (Image)
- ☒ Swf (Stream)
- ☒ Tga (Image)
- ☒ Vob (Stream)
- ☒ Wave (Audio)

Slide 7 of 23 "Office Theme" English (United States)

Desktop Libraries blesson andrews v... Computer Network Control Panel

10:21 PM Monday 11/24/2014

# Attacker Selects an O/p Directory





Attacker feels he got the secret message,  
But actually, what he got is a decoy

