

Errata for *Gray Hat Python* (updated to 13th printing)

Page 31: In the function `attach()` we removed the `self.run()` line

And in the function `open_process` we flipped the `False` and `pid` parameters so it should now

read: `h_process = kernel32.OpenProcess(PROCESS_ALL_ACCESS, False, pid)`

Page 37: In the function `enumerate_threads()` we dedented the following two lines

so as to align with the `while success:` line:

```
kernel32.CloseHandle(snapshot)
return thread_list
```

And the declaration:

```
def get_thread_context(self, thread_id):
```

should now read:

```
def get_thread_context(self, thread_id=None, h_thread=None)
```

And the `get_thread_context` function should include a check if the `h_thread` parameter isn't passed to it:

```
def get_thread_context(self, thread_id=None, h_thread=None):

    context = CONTEXT()
    context.ContextFlags = CONTEXT_FULL | CONTEXT_DEBUG_REGISTERS
    if not h_thread:
        self.open_thread(thread_id)
```

Page 42: In the function `get_debug_event()` the line that reads:

```
self.context = self.get_thread_context(self.h_thread)
```

should now read:

```
self.context = self.get_thread_context(h_thread=self.h_thread)
```

And we dedented all the lines from `if exception == EXCEPTION_ACCESS_VIOLATION:` to `print "Single Stepping."` so they are inside the `if debug_event.dwDebugEventCode == EXCEPTION_DEBUG_EVENT.`

And we changed all instances of the `ec` variable to `exception`

And the function declaration `def exception_handler_breakpoint()` needs to include the `self` parameter: `def exception_handler_breakpoint(self)`

Page 44: In the function `bp_set()`, the line:

```
self.breakpoints[address] = address,original_byte)
```

should now read:

```
self.breakpoints[address] = (original_byte)
```

Page 48: In the function `bp_set_hw()` we dedented all the lines starting at `if available == 0:` and ending at `kernel32.SetThreadContext(h_thread, byref(context))` so that they are inside the preceding `for thread_id in self.enumerate_threads():` loop