

First IDE for Nmap Script (NSE) Development

http://halcyon-ide.org/

#whoami

Sanoop Thomas

- Security Consultant at SEC Consult
- One of core team moderator at Null Singapore chapter
- Over 7 years in Information Security
- Before that I used to often type {curly braces} and ;semicolons;.
- Tweet Tweet @s4n7h0

How did it all start?

- Repeated NSE development for internal pentesting
- Need of a developing environment
- Lot of things can be automated
- One of my coffee shop project
- Named it hal·cy·on, pronounced as 'halsēən/

• http://halcyon-ide.org/

What

- First IDE specifically focused on NSE development
- Java based development
- Understands NMAP and LUA
- Easy NSE scripting environment

Why do we need NSE?

- Nmap capabilities
- Faster scan signature release
- Unusual device or version detection

NSE Trivia

```
portrule = function(host, port)
     return port.protocol == "tcp" and
     port.number == 80 and
     port.state == "open"
end
action = function(host, port)
     return "Hello world!"
end
```

Project Page

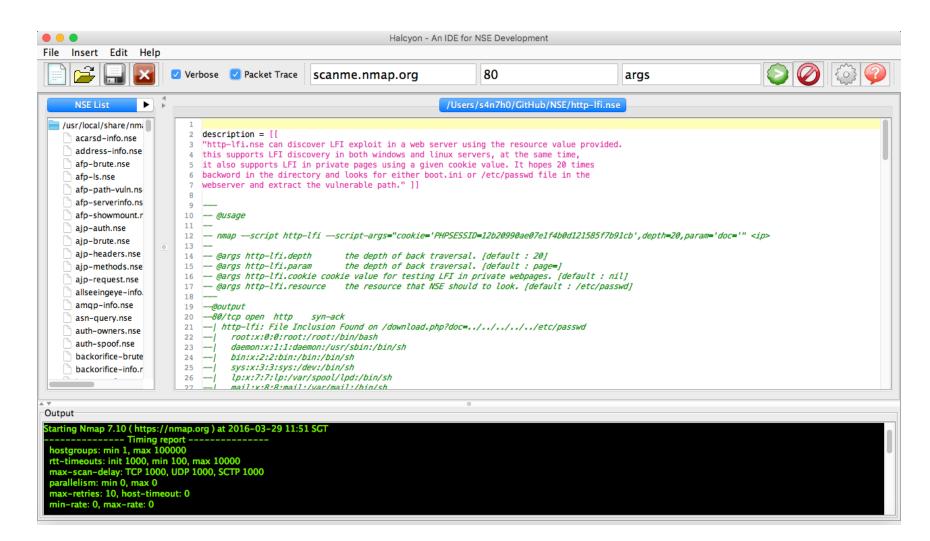
- Official Page
 - http://halcyon-ide.org/

- Current release 2.0 is available on the website.
- Version 2.1 will be released after ROOTCON X

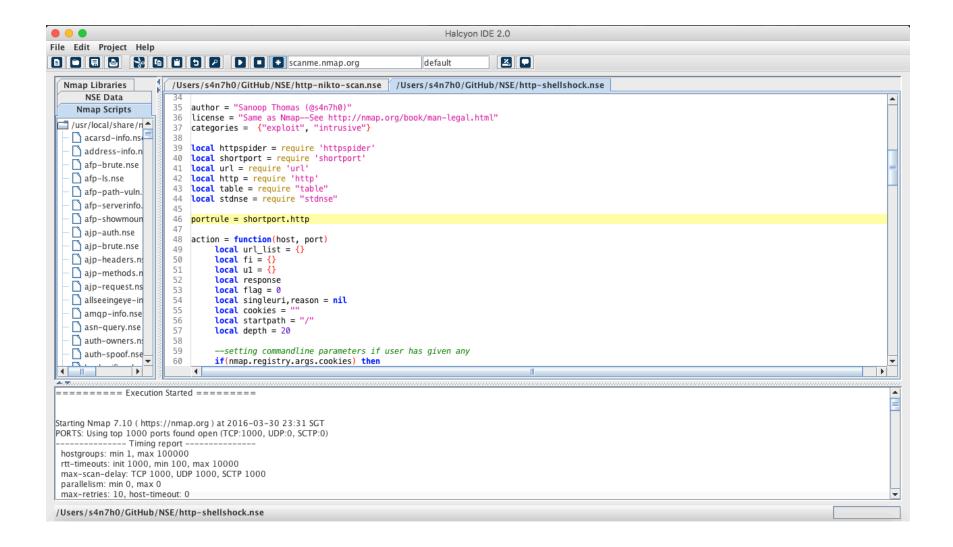
Current Features

- Like other traditional IDEs
 - Syntax highlighting
 - Auto completing
- Easy configuration
 - Automated settings
 - Single click config
 - Manual configuration available
- Code generator
- Run/debug/fix within the IDE
- Pre/post development actions
- Build-in Decoder
- Scan-Diff

In the initial days



And now



Future works

- Report Explorer and Parsers
- NSE help wizard to lean NSE scripting
- You got more ideas, send to me

Thanks

- To all NSE developers
- Thanks to all baristas who served me tantalizing aroma of strong coffee throughout this work ©

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www.halcyon-ide.org
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