



Your New 5 Year Plan!

Ok, so five is just a made up number. Most people are more likely to click on articles with simple numbers in them. Think of all the Cracked and BuzzFeed articles that have easy to digest numbers in the title. This is kind of like that. Yes, I know it is a marketing ploy. And, to be honest, I feel bad about it. I just want you to know that I know it is a bit weird. Please, please do not hold this against me. If you have been coming to these things for a while, you know that I try to stay away from things like this.

Ok.. I lied. I put five in the title simply so I could write this up at the beginning of the presentation. It is kind of a meta-meta joke that I am pretty sure is only funny to myself. But that is kind of the point. The first thing you need to do is find a way to enjoy things. Yes, that will entail doing odd things that only you and possibly one other person in the whole world will get. For example, I like to tell jokes about James Joyce. No one gets them. And, the people who would don't find them funny at all. That does not stop me. Are you still reading this? Wow.. Bet you regret it. I am starting to feel a bit bad about this joke.



My Background



- College
- Accenture
- Northrup Grumman
- SANS
- BHIS



accenture



What Kickstarted It All?



The header of the 'Indian Trust Settlement' website features a scenic background image of snow-capped mountains under a purple and orange sky. The title 'Indian Trust Settlement' is centered at the top. Below the title is a dark navigation bar with white text links: Home, Important Dates, FAQs, Notices, Court Documents, and Media.

January 27, 2017
Important Update: Final Deadline To Submit Documents Set For Payment In The Cobell Settlement And Court Approval Of Initial Scholarship Payment:

**Whereabouts Unknown:
Help Locate Your Record**



A map of the United States, including Alaska and Hawaii, with state boundaries outlined. The map is primarily blue, with some states highlighted in a darker shade of blue.



Year One



- Focus on core concepts
 - Windows
 - Linux
 - Networking
 - Python
- Also start looking at security standards
 - CIS
 - NIST 800 documents
 - Most of this is worthless
 - But, people will ask questions



CIS Benchmarks Examples:



ubuntu



Windows



Download Free CIS Benchmark PDFs:

Select Platform



Download



Windows TechNet Evaluation



TechNet Evaluation Center

My Evaluations

Evaluate Now ▾

Tech Journeys ▾

Explore

Try

Learn



My Evaluations



Explore

Watch on-demand: Exclusive business application insights—including Dynamics 365, LinkedIn, and Power BI—with CEO Satya Nadella



Explore

DevOps in real life. Geek out over DevOps technical case studies, complete with value stream maps, architectural diagrams, and code.



Explore

Join us for our upcoming Windows Server Security AMA in the Tech Community on August 8 at 9AM PT!



My Experiences ▾

My Actions ▾

My Profile ▾



Evaluations



Virtual Labs



Tech Journeys

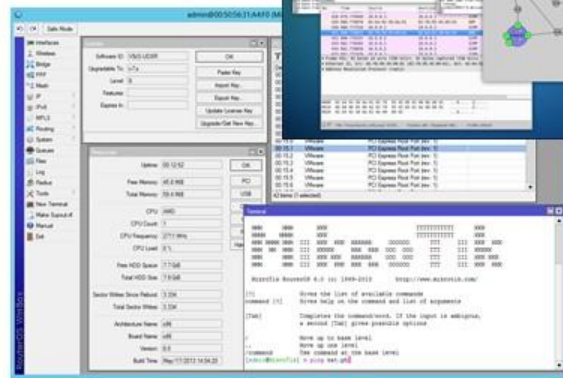
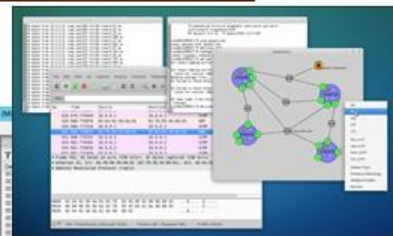
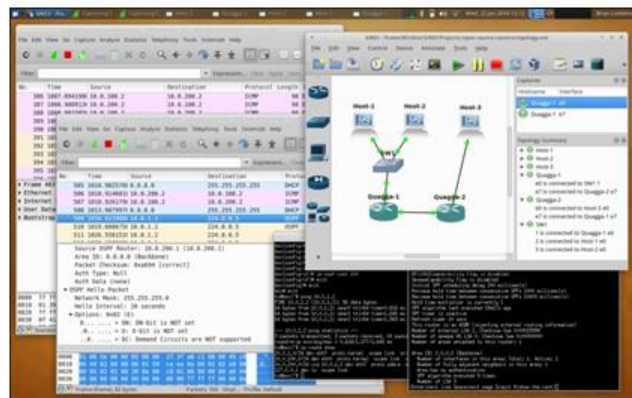


© Black

Networking



- First, get your stuff at home to work
- Know what it is doing
- Next, get some simulators
 - <http://www.brianlinkletter.com/open-source-network-simulators/>
- Finally, get some gear
 - Old Cisco on ebay
 - MikroTik is cheap and very powerful
 - Full crazy router for ~ \$60



Linux – Install Everything... From Scratch

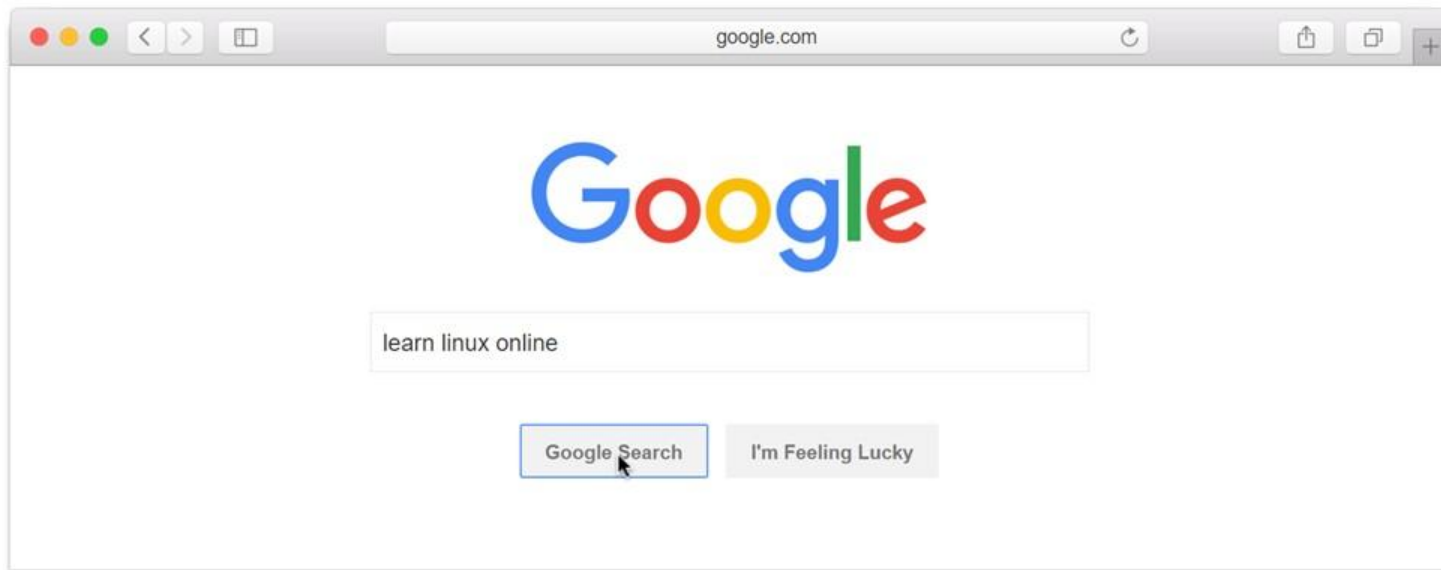


Step 1
Visit google.com

Step 2
Type your question.

Step 3
Click the button.

That's it!



The above is an illustration for educational purposes.



© Black Hills Information Security | @BHinfoSecurity

Let's Be A bit More Specific...



- Learn bash scripting
- There are other shells
- Bash is the only one that matters
- Anyone who tells you otherwise is not someone you want to hang with in parties
- They are also not your friend



The Linux Command Line: A Complete Introduction Jan 11, 2012

by William E. Shotts Jr.

Paperback

\$29⁴³ ~~\$39.95~~ ✓prime

Usually ships in 1 to 3 weeks

More Buying Choices

\$18.79 (\$9 used & new offers)

Kindle Edition

\$30⁹⁹

★★★★★ ▾ 307

Trade in yours for an Amazon Gift Card up to \$10.72



Linux Command Line and Shell Scripting Bible Jan 6, 2015

by Richard Blum and Christine Bresnahan

Kindle Edition

\$26²⁹

Paperback

\$11⁰⁷ to rent ✓prime

\$27⁶⁷ to buy ✓prime

More Buying Choices

\$20.91 (62 used & new offers)

★★★★★ ▾ 66



Shell Programming and Bash Scripting: Ultimate Beginners Guide Book Nov 10, 2016

by Robert Collins

Kindle Edition

\$0.00 kindleunlimited

Read this and over 1 million books with Kindle Unlimited.

\$2⁹⁹ to buy

★★★★★ ▾ 3

Paperback

\$12³³ ✓prime

Get it by **Thursday, Aug 10**

More Buying Choices



Learn Python Online



codecademy

Catalog

Log in

Sign up

Learn to code interactively, for free.



CSS

JS

PHP

HTML

< />

SIGN UP AND START CODING IN
SECONDS.

Email

Password

Username

SIGN UP



© Black Hills Information Security | @BHinfoSecurity

Year Two



- Time to start projects
- It is possible you started some already
- That is fine
- You should also start the following:
 - Start a security group
 - At work
 - At school
 - Start learning PowerShell
 - This is going to take a while
- Keep up on security news



GitHub



Microsoft®
PowerShell



And... Henry Rollins...



Year Three



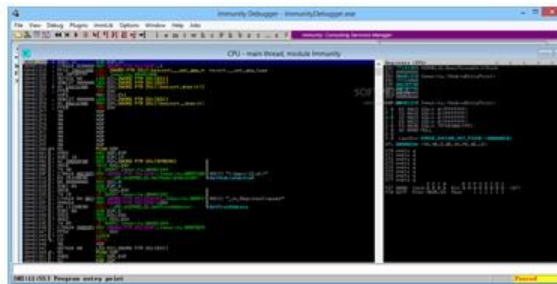
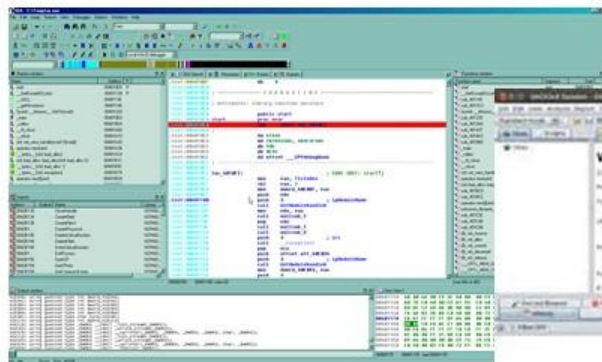
- The year of web apps
- Start with PHP and ASP.NET
 - Don't get distracted with other crap just yet
- Feel free to branch out to networked iOS and Android Apps
- But develop something
- Learn to code badly
 - Trust me.. You will suck.



Year Four



- Time to start hacking stuff
- Learn IDA and Immunity Debugger
- Pick a protocol
- Understand that protocol
- Hit online challenges
- I know you would have played with Metasploit the whole time...
- ZAP from OWASP



SANS Ultimate Pentest Poster



- <https://www.sans.org/security-resources/posters/pen-testing>

FUTURE PEN TESTING EVENTS

SANS Pen Test Austin
MAY 18-22, 2015 | AUSTIN, TX

COIN-A-PALOOZA
Each SANS Pen Test event includes a free 5-day Coin-A-Palooza event, where attendees can earn coins by participating in various challenges. Coins can be used to purchase items from the SANS Pen Test Coin-A-Palooza store.

PENETRATION TESTING PRACTICE LABS
Vulnerable Apps/Systems
Curated by Aaron Hinchey, JH

SANS Penetration Testing Curriculum
A comprehensive curriculum for learning penetration testing, covering topics such as reconnaissance, enumeration, exploitation, and post-exploitation.

Attack Surfaces, Tools, and Techniques
POSTER - SPRING 2015
3RD EDITION

RESOURCES
A list of various resources, including books, articles, and tools, that are useful for penetration testing.

Black Hills Information Security



Year Five... Present.



© Black Hills Information Security | @BHinfoSecurity

In Closing



- Feel free to do the following....

- Indulge in distractions
- Stick to my plan
- Ignore my plan
- Develop your own plan
- Get good at just one thing
- Get a degree
- Don't get a degree
- Get certifications
- Don't get certified

- Do not do the following....

- Sink into video games
- Waste you time going after epic Pokémon
- Binge watch shows on Netflix
- Use Bing for anything
- Just barely learn Metasploit to impress women/men
- Spend more time on the hacker "look" than learning
- Get angry
- Blame others

