



Application Security Workbook

An Individuals Journey

By: depth



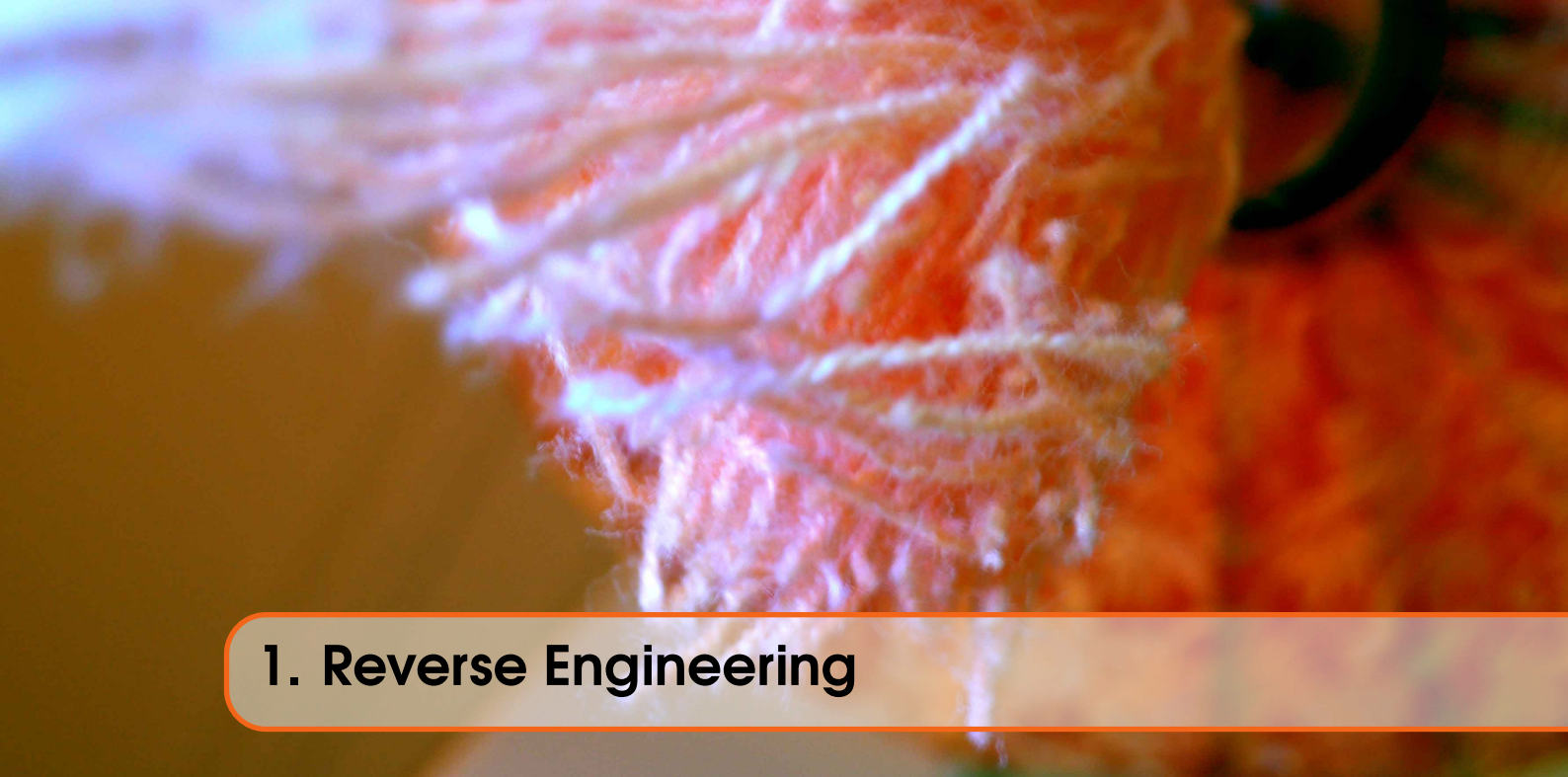
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Part I

Primary Security Skills



1. Reverse Engineering

1.1 Hacking the Xbox

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Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim.

Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

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Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

1.2 Citation

This statement requires citation [2]; this one is more specific [1, page 122].

1.3 Practical Reverse Engineering

Contents

1.3.1 Chapter 1 7

Exercise 1.1 - Counting by fours 7

Exercise 1.2 7

Quiz 7

1.3.2 Chapter 2 8

Exercise 2.1 8

Exercise 2.2 8

Lists are useful to present information in a concise and/or ordered way¹.

Exercises

?? The test here.
text in a column,
for demo purposes.

Quizzes

some different
text, right-aligned
for demo purposes,
some different
text, right-aligned
for demo purposes,
some different
text, right-aligned
for demo purposes,
some different
text, right-aligned
for demo purposes,
and with more lines.

1.3.1 Chapter 1

Exercise 1.1 - Counting by fours

This is a good place to ask a question to test learning progress or further cement ideas into students' minds.

Here's what I did.

Exercise 1.2

Quiz

This is a good place to ask a question to test learning progress or further cement ideas into students' minds.

Here's where I think

This is a good place to ask a question to test learning progress or further cement ideas into students' minds.

¹Footnote example...

What I think again

1.3.2 Chapter 2

Exercise 2.1

This is a good place to ask a question to test learning progress or further cement ideas into students' minds. ■

Here's where I think

This is a good place to ask a question to test learning progress or further cement ideas into students' minds. ■

Exercise 2.2

Name Description

Word Definition

Comment Elaboration

- 1.4 Practical Reverse Engineering
- 1.5 Practical Reverse Engineering
- 1.6 Practical Reverse Engineering
- 1.7 Practical Reverse Engineering
- 1.8 Practical Reverse Engineering
- 1.9 Practical Reverse Engineering
- 1.10 Practical Reverse Engineering
- 1.11 Practical Reverse Engineering
- 1.12 Practical Reverse Engineering
- 1.13 Practical Reverse Engineering
- 1.14 Practical Reverse Engineering
- 1.15 Practical Reverse Engineering
- 1.16 Practical Reverse Engineering
- 1.17 Practical Reverse Engineering
- 1.18 Practical Reverse Engineering



2. Operating Systems

- 2.1 Practical Reverse Engineering
- 2.2 Reversing: Secrets of Reverse Engineering
- 2.3 The Practice of Network Security Monitoring
- 2.4 Compilers: Principles, Techniques, and Tools
- 2.5 Advanced Programming in the UNIX Env
- 2.6 Practical Reverse Engineering
- 2.7 Practical Reverse Engineering
- 2.8 Practical Reverse Engineering
- 2.9 Theorems

This is an example of theorems.

2.9.1 Several equations

This is a theorem consisting of several equations.

Theorem 2.9.1 — Name of the theorem. In $E = \mathbb{R}^n$ all norms are equivalent. It has the properties:

$$||\mathbf{x}|| - ||\mathbf{y}|| \leq ||\mathbf{x} - \mathbf{y}|| \quad (2.1)$$

$$||\sum_{i=1}^n \mathbf{x}_i|| \leq \sum_{i=1}^n ||\mathbf{x}_i|| \quad \text{where } n \text{ is a finite integer} \quad (2.2)$$

2.9.2 Single Line

This is a theorem consisting of just one line.

Theorem 2.9.2 A set $\mathcal{D}(G)$ is dense in $L^2(G)$, $|\cdot|_0$.

2.10 Definitions

This is an example of a definition. A definition could be mathematical or it could define a concept.

Definition 2.10.1 — Definition name. Given a vector space E , a norm on E is an application, denoted $||\cdot||$, E in $\mathbb{R}^+ = [0, +\infty[$ such that:

$$||\mathbf{x}|| = 0 \Rightarrow \mathbf{x} = \mathbf{0} \quad (2.3)$$

$$||\lambda \mathbf{x}|| = |\lambda| \cdot ||\mathbf{x}|| \quad (2.4)$$

$$||\mathbf{x} + \mathbf{y}|| \leq ||\mathbf{x}|| + ||\mathbf{y}|| \quad (2.5)$$

2.11 Notations

Notation 2.1. Given an open subset G of \mathbb{R}^n , the set of functions ϕ are:

1. Bounded support G ;
2. Infinitely differentiable;

a vector space is denoted by $\mathcal{D}(G)$.

2.12 Remarks

This is an example of a remark.

R The concepts presented here are now in conventional employment in mathematics. Vector spaces are taken over the field $\mathbb{K} = \mathbb{R}$, however, established properties are easily extended to $\mathbb{K} = \mathbb{C}$.

2.13 Corollaries

This is an example of a corollary.

Corollary 2.13.1 — Corollary name. The concepts presented here are now in conventional employment in mathematics. Vector spaces are taken over the field $\mathbb{K} = \mathbb{R}$, however, established properties are easily extended to $\mathbb{K} = \mathbb{C}$.

Corollary 2.13.2 — Corollary name. The concepts presented here are now in conventional employment in mathematics. Vector spaces are taken over the field $\mathbb{K} = \mathbb{R}$, however, established properties are easily extended to $\mathbb{K} = \mathbb{C}$.

Corollary 2.13.3 — Corollary name. The concepts presented here are now in conventional employment in mathematics. Vector spaces are taken over the field $\mathbb{K} = \mathbb{R}$, however, established properties are easily extended to $\mathbb{K} = \mathbb{C}$.

2.14 Propositions

This is an example of propositions.

2.14.1 Several equations

Proposition 2.14.1 — Proposition name. It has the properties:

$$||\mathbf{x}| - |\mathbf{y}|| \leq |\mathbf{x} - \mathbf{y}| \quad (2.6)$$

$$||\sum_{i=1}^n \mathbf{x}_i|| \leq \sum_{i=1}^n ||\mathbf{x}_i|| \quad \text{where } n \text{ is a finite integer} \quad (2.7)$$

2.14.2 Single Line

Proposition 2.14.2 Let $f, g \in L^2(G)$; if $\forall \varphi \in \mathcal{D}(G)$, $(f, \varphi)_0 = (g, \varphi)_0$ then $f = g$.

2.15 Examples

This is an example of examples.

2.15.1 Equation and Text

■ **Example 2.1** Let $G = \{x \in \mathbb{R}^2 : |x| < 3\}$ and denoted by: $x^0 = (1, 1)$; consider the function:

$$f(x) = \begin{cases} e^{|x|} & \text{si } |x - x^0| \leq 1/2 \\ 0 & \text{si } |x - x^0| > 1/2 \end{cases} \quad (2.8)$$

The function f has bounded support, we can take $A = \{x \in \mathbb{R}^2 : |x - x^0| \leq 1/2 + \varepsilon\}$ for all $\varepsilon \in]0; 5/2 - \sqrt{2}[$. ■

2.15.2 Paragraph of Text

■ **Example 2.2 — Example name.** Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris. ■

2.16 Exercises

This is an example of an exercise.

This is a good place to ask a question to test learning progress or further cement ideas into students' minds. ■

2.17 Problems

Problem 2.1 What is the average airspeed velocity of an unladen swallow?

2.18 Vocabulary

Define a word to improve a students' vocabulary.

Vocabulary 2.1 — Word. Definition of word.

Part II

Part Two

3. Presenting Information

3.1 Table

| Treatments | Response 1 | Response 2 |
|-------------|------------|------------|
| Treatment 1 | 0.0003262 | 0.562 |
| Treatment 2 | 0.0015681 | 0.910 |
| Treatment 3 | 0.0009271 | 0.296 |

Table 3.1: Table caption

3.2 Figure



Figure 3.1: Figure caption



Bibliography

Books

- [Smi12] John Smith. *Book title*. 1st edition. Volume 3. 2. City: Publisher, Jan. 2012, pages 123–200 (cited on page 6).

Articles

- [Smi13] James Smith. “Article title”. In: 14.6 (Mar. 2013), pages 1–8 (cited on page 6).