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Homework 5

Problem 1: Firewall Rules [5 points]

1. No, rule 9

2. Yes, rule 3

3. No, rule 7

4. Yes, rule 4

5. Yes, rule 8

6. Yes, rule 5

7. Yes, rule 6

8. 1. NEW 198.51.100.0/24 -> 192.0.2.2 : 25 => ACCEPT

Before rule 3

2. NEW 198.51.100.0/24 -> 0.0.0.0/0 : 25 => DROP

Before rule 6

Problem 2: Intrusion Detection [1 point]

Alert http !198..51.100.0/24 192.0.2.1(msg: “Oh, no you don’t!”; content=”admin.php”; http\_uvi;)

Problem 3: Taint Analysis [1 point]

1.v2 is tainted because depends on external user input

2.v3 is tainted because depends on v2

3.v4 is tainted because depends on v2

4.v5 is tainted because depends on v3

5.v6 is tainted because depends on v4

6.v7 is tainted because depends on v2

7.v8 is tainted because depends on v5