



# Network Security and Cryptography (CSN09112)

Towards the complete understanding of every element of secure systems



## Introduction

Module Overview

Timetable

vSoC 2

Prof Bill Buchanan OBE, FRSE

<https://asecuritysite.com>





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Sana Ullah Jan

Bob



Alice



Eve



Trent





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NO	Date	Subject	Lab
2	18 Sept 2025	1. Introduction <a href="#">[Link]</a> 2. Intrusion Detection Systems <a href="#">[Link]</a>	Network Security <a href="#">Lab 1</a>
3	25 Sept 2025	3. Network Security (Risks and Models) <a href="#">[Link]</a>	Network Security <a href="#">Lab 2</a>
4	2 Oct 2025	4. Ciphers and Fundamentals <a href="#">[Link]</a>	AWS Security and Server Infrastructure <a href="#">Lab 3</a>
5	9 Oct 2025	5. Secret Key 6. Hashing <a href="#">[Link]</a>	Symmetric Key and Hashing <a href="#">Lab 4</a>
6	16 Oct 2025	7. Public Key <a href="#">[Link]</a> 8. Key Exchange <a href="#">[Link]</a>	Public Key and Key Exchange <a href="#">Lab 5</a>
7	23 Oct 2025	Reading week/Revision session	Reading week/Cipher Challenge
8	30 Oct 2025	9. Digital Certificates	Certificates <a href="#">Lab 6</a>
9	7 Nov 2025	Test 1 <a href="#">here</a>	
10	13 Nov 2025	10 Network Forensics <a href="#">here</a>	Network Forensics <a href="#">Lab 7</a>
11	20 Nov 2025	11. Splunk <a href="#">here</a>	Splunk Lab <a href="#">Lab 8</a>
12	27 Nov 2025	13. Tunnelling <a href="#">Here</a>	Tunnelling <a href="#">Lab 9</a>
13	4 Dec 2025	14. Blockchain and Cryptocurrencies <a href="#">here</a>	Blockchain Lab. <a href="#">here</a>
14	11 Dec 2025		
15	18 Dec 2025	Hand-in: TBC <a href="#">[Here]</a>	

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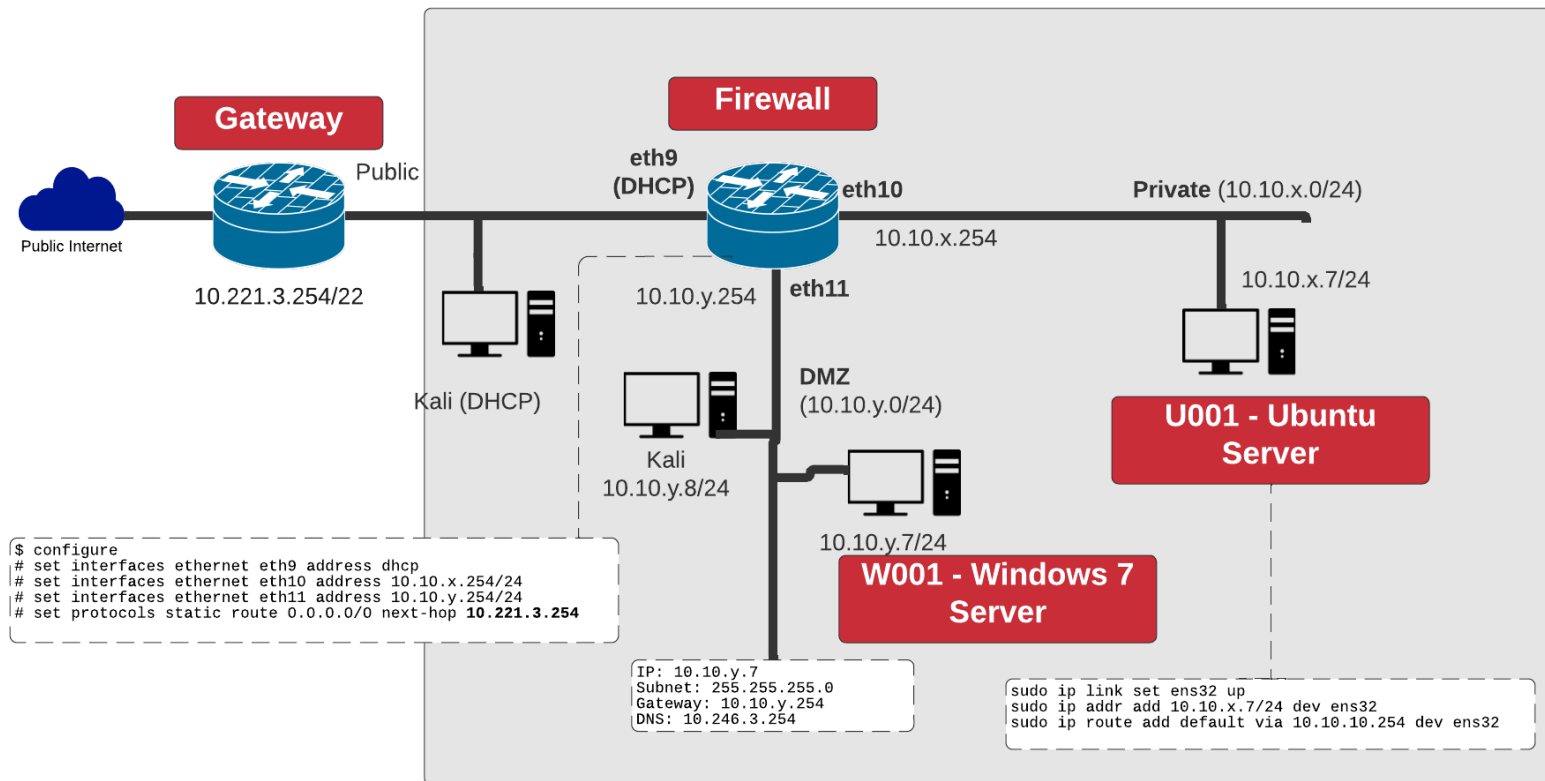
git clone <https://github.com/billbuchanan/csn09112>



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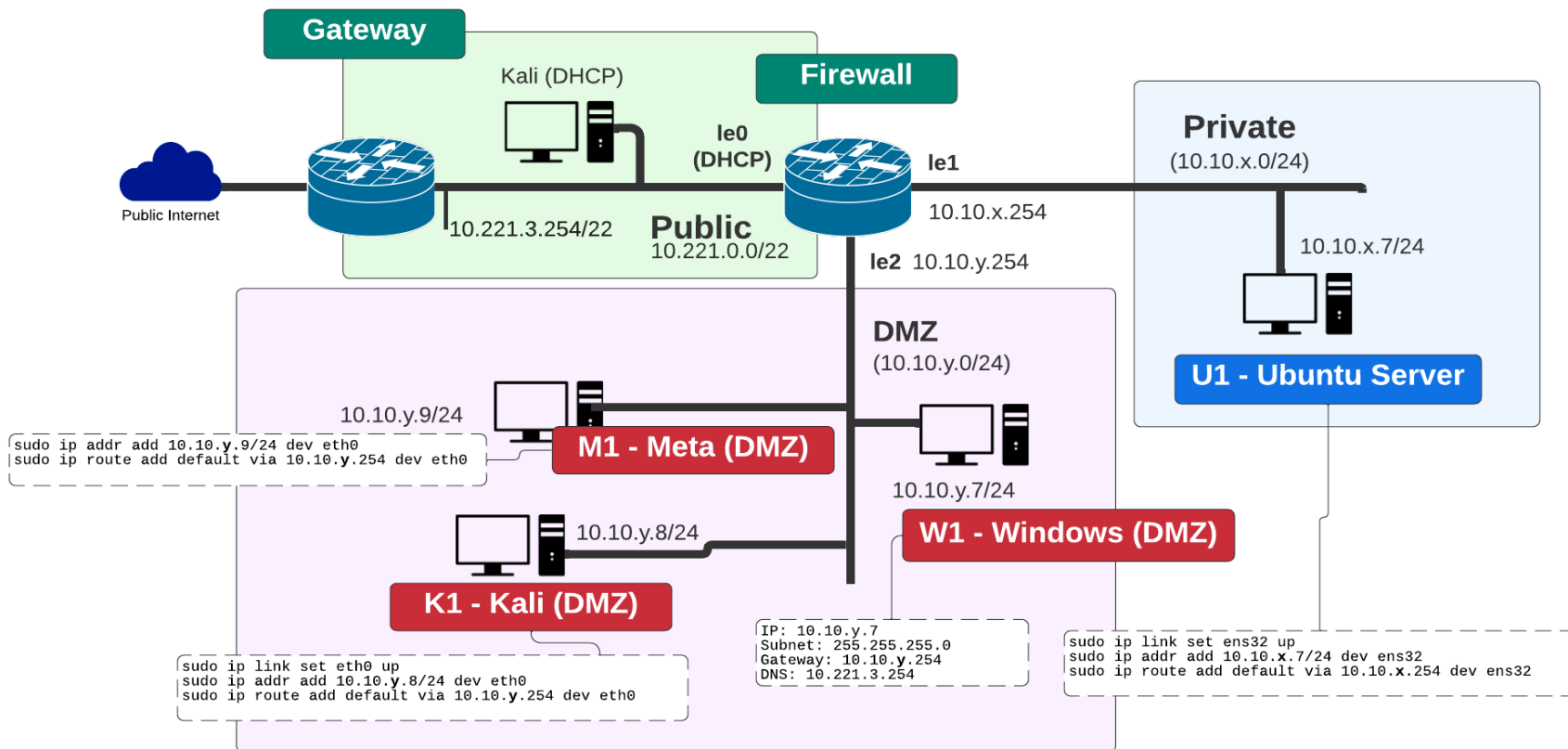




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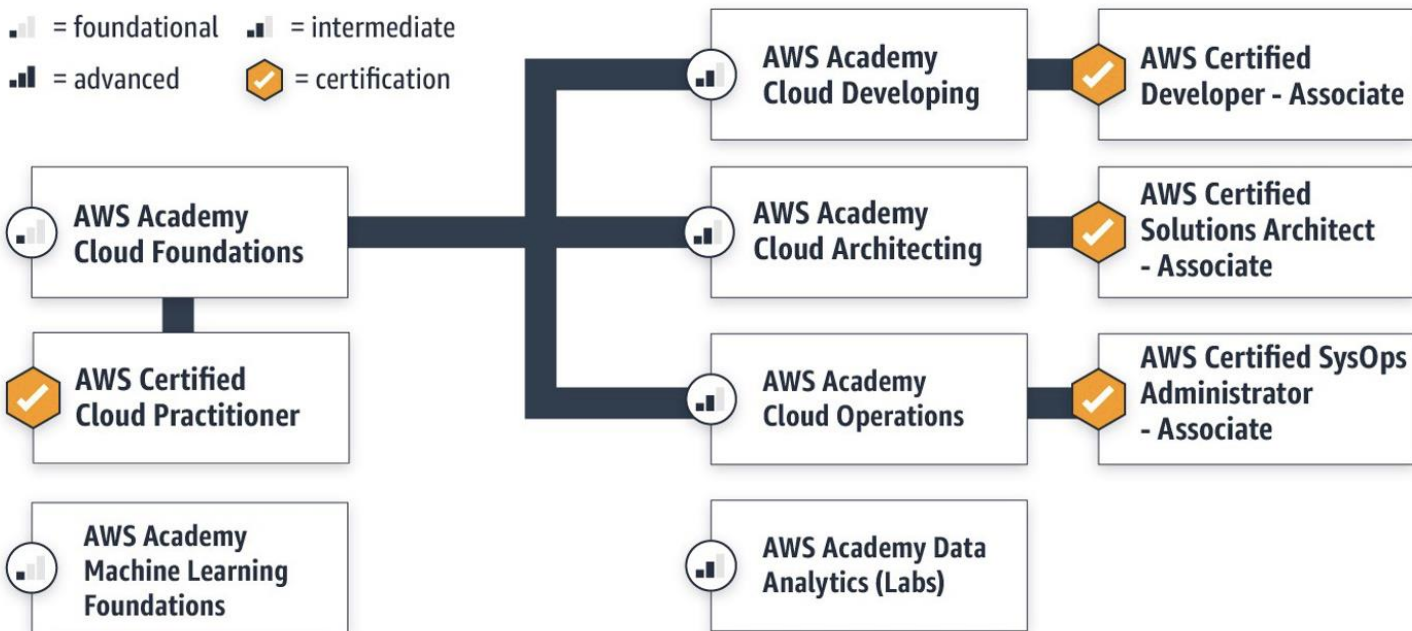


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■ = foundational   ■ = intermediate  
■ = advanced   ✓ = certification







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