NordicShield Technologies Oy

A Comprehensive Security+ (SY0-701) Capstone Project

Project Overview

This capstone project demonstrates comprehensive knowledge of all five CompTIA Security+ SY0-701 domains through a realistic enterprise security scenario. You will act as a Junior Security Analyst helping a Finnish SME establish security posture during global expansion.

Company Overview

NordicShield Technologies Oy is a Finnish small-medium enterprise (SME) founded in 2018, specializing in **sustainable data center cooling solutions** and **IoT-enabled building management systems**. Headquartered in **Turku, Finland**, the company has grown from 35 to 120 employees and is valued at €25 million.

Core Business

Aspect	Details
Industry	Green Technology / Data Center Infrastructure
Founded	2018, Turku, Finland
Specialty	Sustainable cooling solutions & IoT building management
Employees	120 (growing to 150+ with expansion)
Valuation	€25 million
Clients	45+ data centers across Nordic region
IoT Devices	500+ sensors deployed at client sites

The Situation: Global Expansion

In January 2026, NordicShield secured Series B funding of €15 million to expand globally. The expansion plan includes:

Region	Location	Office Type	Timeline	Employees	Primary Function
EU (HQ)	Turku, Finland	Headquarters	Existing	85	All operations
EU Expansion	Amsterdam, Netherlands	Regional Office	Q2 2026	15	EU Sales & Support

Region	Location	Office Type	Timeline	Employees	Primary Function
Americas	Austin, Texas, USA	Sales & Support Hub	Q3 2026	12	Americas Market
Africa	Kigali, Rwanda	Tech Support & Dev	Q4 2026	8	Development & Support

Your Role

You are **Junior Security Analyst** hired to join the newly formed **Information Security Team**. The CISO, **Elina Virtanen**, has tasked you with helping establish the company's security posture as they expand globally.

> "We've grown quickly, and security has been reactive. Now, we need to be proactive. I need you to help me assess where we are, identify gaps, and build a security program that scales across continents and complies with multiple regulatory frameworks." — Elina Virtanen, CISO

Security+ Domain Coverage

This project maps directly to CompTIA Security+ SY0-701 exam objectives:

Domain	Weight	Project Phase	Focus Areas
1.0 General Security Concepts	12%	Phase 1	Controls, CIA, Zero Trust, Cryptography
2.0 Threats, Vulnerabilities, Mitigations	22%	Phase 2	Threat actors, attack vectors, vulnerability assessment
3.0 Security Architecture	18%	Phase 3	Network design, cloud security, data protection
4.0 Security Operations	28%	Phase 4	Asset management, monitoring, IAM, incident response
5.0 Security Program Management	20%	Phase 5	Governance, risk, compliance, awareness

Regulatory Compliance Requirements

Region	Regulation	Key Requirements
Finland/EU	**GDPR**	Data protection, privacy, 72-hour breach notification
Netherlands	**GDPR + Dutch DPA**	Same + local authority requirements
USA (Texas)	**CCPA, State Laws**	Consumer privacy, data sale restrictions
Rwanda	**DPA 2021**	Data localization, consent requirements

Region	Regulation	Key Requirements
All Regions	**NIS2 Directive**	Critical infrastructure security (IoT/ICS)

Project Deliverables Structure

```
SecurityPlus_Capstone_Project/
├── 00_NordicShield_Company_Scenario.md (this file)
├── 01_Company_Documentation/
│   └── NordicShield_Complete_Profile.md
├── Phase_1_General_Security_Concepts/
├── Phase_2_Threats_Vulnerabilities_Mitigations/
├── Phase_3_Security_Architecture/
├── Phase_4_Security_Operations/
└── Phase_5_Security_Program_Management/
```

Success Criteria

Upon completion, you will have:

1. ✅ Demonstrated understanding of all 5 Security+ domains
2. ✅ Created real-world security documentation
3. ✅ Built a portfolio-worthy capstone project
4. ✅ Gained practical experience in enterprise security
5. ✅ Prepared for actual job responsibilities as a Security Analyst

Getting Started

Begin with the **Company Documentation** to understand the full organizational context, then proceed through each phase systematically.

Next Document: 01_Company_Documentation/NordicShield_Complete_Profile.md

Project Credits

Role	Entity
Security Consulting Firm	Allyship Security Labs (AllySecLabs)
Lead Security Analyst	Precious Robert, Security+
Project Type	Security+ SY0-701 Capstone Demonstration
Client (Fictional)	NordicShield Technologies Oy

Project Created: January 2026 Security+ Exam Version: SY0-701