



**Making IT
good for society**

BCS Digital Industries Apprenticeship

Cyber Security Technologist Project 1

**Version 2.0
January 2019**

Change History

Any changes made to the project shall be clearly documented with a change history log. This shall include the latest version number, date of the amendment and changes made. The purpose is to identify quickly what changes have been made.

Version Number and Date	Changes Made
V1.0 13/09/18	Document created.
V2.0 January 2019	Full project revision

Project Overview and Objectives

The resources to complete this project will be made available through the BCS Cisco Networking Academy.

You will have a maximum of 5 days to:

- 1. Analyse the Log Files**
- 2. Scope and create a rational for the approach to the network task**
- 3. Complete the Network Scenario Question**

You are required to analyse the log files provided and answer the questions relating to each file.

You are required to build a secure network based on the tools and overview provided (packet tracer) and test this network to ensure its security and vulnerabilities are identified. You are also required to complete the scenario question and highlight the vulnerabilities of the proposed network.

This information should be saved and emailed to epateam@bcs.uk to present your answers and solutions.

Project Outputs and Deliverables

Once completed, to demonstrate completion of the tasks you will be asked to provide a series of outputs, that should be submitted together with the synoptic project declaration.

Deliverable	Output	Evidence
<i>Log Files</i>	Produce a report on each of the log files. <ul style="list-style-type: none"> • Analyse and report on the questions for each log file. • Record findings. • Explain rational to approach. 	Word or PDF Document
<i>Build and Test Network</i>	The network should be built and tested in Packet Tracer. <ul style="list-style-type: none"> • Explain rationale. • Build network, recording any approaches and tools used. • Create a test plan. 	Word or PDF Document Packet Tracer
<i>Scenario Question</i>	Complete the scenario question. <ul style="list-style-type: none"> • Approach and rational. • Written answer. 	PDF / Word document

Project Information and Equipment

- Background Information;
- Apprentice Declaration;
- BCS Cisco Networking Academy.

Your training provider and/or employer will provide you with all resources required to complete your project including:

- access to Packet Tracer;
- access to word processing;
- access to the Internet.

Apprenticeship Competencies Covered

Competency Standard (Core)
Threats, hazards, risks and intelligence.
Developing and using a security case.
Organisational context.
Competency Standard (Specialist Technologist)
Design build & test a network ("Build a network").
Analysing a security case ("Make the security case").
Structured and reasoned implementation of security in a network ("Build a secure network").