

Assignments: Application Protocols

Assignment 1: Protocol Matching & Categorization

Objective: Identify and categorize protocols by function and security.

Instructions:

Using the table below, fill in the missing information about each protocol.

Protocol	Function	Secure Version	Port Number
HTTP	?	?	?
?	Sends email between servers	SMTPS	25
POP3	?	?	?
?	Transfers files securely over SSH	-	22
IMAP	?	?	?

Assignment 2: Scenario Analysis

Objective: Analyze real-world use cases to determine proper protocols.

Instructions:

Read the scenarios below and choose the most appropriate protocol. Justify your choice.

1. A remote worker accesses their email on a personal tablet and work laptop. What protocol is ideal for receiving their email?
2. A user is uploading medical documents to a hospital server. Which protocol should be used to ensure file security?
3. A company runs a public-facing website and needs to protect users' login data. Which protocol should be used for the website?

Deliverable: List the correct protocol and explain your reasoning for each scenario (3–4 sentences each).



Assignment 3: Create a Mini Protocol Guide

Objective: Demonstrate understanding by creating educational content.

Instructions:

Create a one-page “cheat sheet” or visual guide that explains at least **five** application protocols. For each protocol, include:

- Name
- Function
- Common port
- Secure version (if applicable)
- One real-world example

You may use bullet points, diagrams, or infographics.

Deliverable: Submit as a digital file (PDF, PNG, DOCX) or a hand-drawn scan/photo.