

Ontario Skills Competition – Networking/IT

Practical Scenario: TechRepair Office Deployment

Scenario Overview

You have been hired as an IT technician for TechRepair Co., a computer repair shop that manages both walk-in service and online booking requests. The new office requires internal networking for staff, a repair workshop environment, and a web-based booking system for customers.

Requirements / Tasks

- Design IPv4 addressing for 3 segments (Office, Workshop, Application DMZ) using private addressing and subnetting.
- Configure a File & Inventory Server with shared folders: Parts, Invoices, Technicians with proper permissions.
- Deploy an Application Web Server with an index.html displaying 'TechRepair Online Booking System', reachable internally and via simulated public access.
- Configure firewall/ACL rules allowing HTTP/HTTPS only to application server, internal-only file sharing, restricted DMZ access, and admin-only office access.
- Provide documentation: addressing plan, logical network diagram, firewall rules, and verification steps.

Marking Rubric

Category	Criteria	Points
Network Design	Subnetting, addressing, gateway assignment, justification	20
Server Setup - File	Shares created with correct permissions	20
Server Setup - Web	Web service deployed and reachable	20
Firewall / ACL Rules	Rules meet requirements and function correctly	20
Documentation	Diagram, addressing, verification, clarity	20
Total		100