

Test Project – Day 1

TP39_39JP_EN

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This Test Project proposal consists of the following document/file:

1. TP39_39JP_DAY1_EN_VER1.0.doc

INTRODUCTION

The competition has a fixed start and finish time. You must decide how to best divide your time.

At the final of Day 1 you will have created four handwritten log documents:

- Activity Log
- Assembly Log
- List of Hardware Elements (CPU, Mainboard, RAM, ...)
- Laptop Troubleshooting Log

You can decide which task to begin with and how many details to include in your log documents.

DESCRIPTION OF PROJECT AND TASKS

You work for a Small Consulting Company, Numazu Corporation. One day, the manager, Seubi, asks you to implement a new IT infrastructure for the office. He gives you the equipment identified in the Materials List contained in this document. [Please pay attention to the specifications in the appendix to ensure that you assemble and set up the network properly and in accordance with the company's internal guidelines.]

He also tells you that there are some problems with his laptop. Windows reports that some hardware devices are not working. You have to fix the problem.

After the completion of the infrastructure, your manager would like you to demonstrate the operation of the network. You are to browse a website on the Wireless Server from the PC via the network.

PART 1

Work tasks (PC)

Note: Please use the default configuration if you are not given the details.

- Assemble the PC. Take care to follow ESD handling guidelines.
- Set up the PC with the operating system (Windows XP Professional). Ensure that all components are correctly installed.
- Create partitions as follows:
 - C: 5 GB partition which is capable of file security.
 - D: 10 GB partition which is compatible with older versions of Windows (9x).
 - S: 1600 MB partition. Use 1500MB for virtual memory (for paging files).
 - Also create an additional 1000 MB partition. Mount this partition to S:\WinXP. Copy the distributed Windows XP CD to S:\WinXP.
 - The rest of the hard disk should remain un-partitioned.
- Please configure the PC with the settings specified in the Appendix.
- Create a Password-Recovery Floppy Dsk
- Install the scanner.
- Scan your WorldSkills 2007 ID card and save it to filename: id_xx at folder D:\image_xx (Where xx is your station number).
- Create a folder C:\competitor_xx . Encrypt this folder.
- Install the tape backup on the PC

- Make a tape backup of your D: Drive. The backup should be compressed and saved onto a file named compress_xx.
- Enable the Windows XP firewall function.
- All the newly created users (local users) should have the following desktop environment.
 - can see only the 'My Computer' and 'My Documents' icons.
 - the desktop background set to 'Tulips'
 - small icons when they click the 'Start' menu
 - expanded control panel
 - auto-hided taskbar

PART 2

Work tasks (laptop)

Note: No OS installation is required.

- Your first task is to localize and fix the four faults on the Laptop. **You must not reload the BIOS defaults.**
- Please configure the Laptop with the settings specified in the Appendix

PART 3

Work tasks (Server)

Note: There are 5 SCSI hard disks in the server.

- Configure the first 2 SCSI hard disks to be RAID 0 + 1.
- Create a 7500 MB NTFS partition on the hard disk for the installation of the OS. The rest of the hard disk should remain un-partitioned.
- Configure the remaining 3 SCSI hard disks to be RAID 5.
- Install the operating system (Windows 2003 Server)
- Create three user accounts: Manager, Worker1 and Worker2. Manager belongs to the Administrator group, Worker1 is the power user and Worker2 is the normal user.

User Account	Account Policy
Manager	Password never expires.
Worker1	User must change password at next login.
Worker2	User cannot change password.

- Please configure Server with settings specified in the Appendix.
- Please set all passwords to "shizuoka2007"
- Set up printer.
- Share the printer on the network.
- Set up a printer priority list. The Manager always has the highest priority, then Worker1, then Worker2.

PART 4

Work Tasks (Networking)

- Construct appropriate cables for your network according to the network diagram. Attach a label to each cable with the following information: If the cable is straight-through write ST_xx on the label, if the cable is a cross-over, write CS_xx on the label. All cables must be 2m +/-5cm.
- Connect the Server and the Laptop using the 2 Cisco switches. There is 1 problem with each switch. You must troubleshoot the problems to ensure network connectivity.

- Set the enable and secret passwords to “shizuoka2007”.
- There is an Internet connection on Server (Not physically available, but will be connected to Cisco Switch 1). Enable other users on PC & Laptop to share the future internet connection from Server by using a default gateway.
- Configure a VPN connection (L2TP / IPsec) to the Server from the PC.
- Connect to the Wireless-Server from the PC and copy the file “numazu.jpg” (located in sharefolder name: “wireless”) to your Desktop.
- Use the available image editor on the PC to write your name on the image “numazu.jpg”. Your name format should be yourname_xx (xx is your station number) and print it on the network printer.
- Browse the fuji_xx.html website on the Wireless Server and print it on the printer connected to the Wireless Server. Raise your hand to obtain the printout from an Expert.

PART 5

Work tasks (Server and PC)

- Setup the Symantec Anti-Virus Corporate Edition Ver10.1 on the Server.
- Set the daily schedule to update the antivirus definition at 13:00.
- Set the daily schedule to perform a virus scan at 14:00.

Appendix

PC specifications:

Company name:	Numazucorp
Organization:	Numazucorp
Who will use this computer:	manager, worker1, worker2
Computer name:	PCxx (xx is the station number)
Workgroup:	Trade39
Admin password:	shizuoka2007
User name:	Administrator
TCP/IP address:	192.168.2.2/24 (LAN card on board)

Laptop specifications:

Computer name:	nmzlaptopxx (xx is the station number)
Admin password:	shizuoka2007
User name:	Administrator
TCP/IP address:	192.168.1.2/24 (LAN card)

Server specifications:

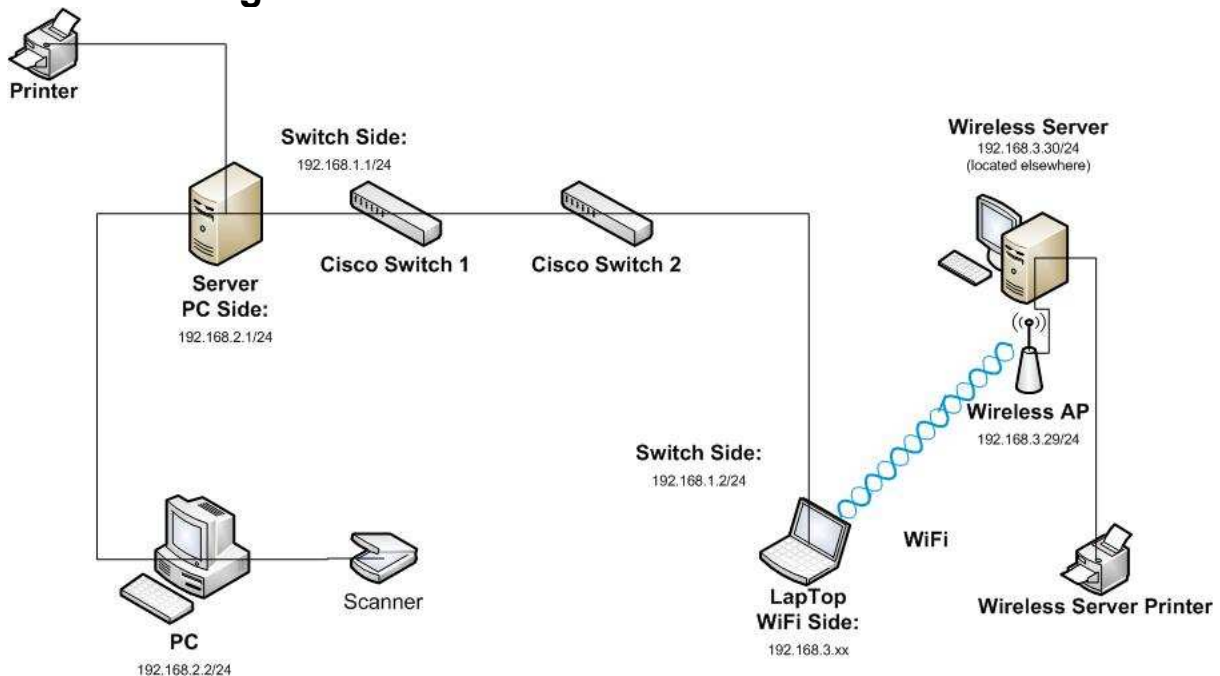
Company name:	Numazucorp
Organization:	Numazucorp
Who will use this computer:	manager
Computer name:	Serverxx (xx is the station number)
Workgroup:	Trade39

Admin password: shizuoka2007
 User name: Administrator
 TCP/IP addresses: 192.168.1.1 /24 (LAN card #1)
 192.168.2.1 /24 (LAN card #2)

W-LAN specifications

Key: AA.CC.EE.11.33.55.77.99.BB.DD.11.00.44
 WEP: 128 bit
 SSID: Trade39

Network Diagram



INSTRUCTIONS TO THE COMPETITOR

Do not bring any materials with you to the competition.

Mobile phones are not to be used.

Do not disclose any competition material / information to any person during each day's competition

Read the whole competition script prior to you starting work.

Be aware different tasks attract a percentage of the overall mark. Plan your time carefully.

Any technical problems must be reported immediately. Equipment will be checked and if found faulty will be replaced and extra time will be agreed with the competitor. However if the equipment is found to be working correctly, no extra time will be given.

You may ask questions during the competition to judges who will always work in pairs; however the judges reserve the right not to answer. All answers given will be written down and where appropriate given to all other competitors.

EQUIPMENT, MACHINERY, INSTALLATIONS AND MATERIALS REQUIRED

PC: (disassembled)

- Motherboard, processor and power supply located on the chassis
- RAM
- HDD (SATA)
- IDE DVD-ROM/CD RW
- Sound Card on board
- LAN Card on board
- Keyboard
- Mouse
- Monitor
- Tape drive (USB)
- Scanner

Laptop: (totally assembled with Windows XP professional installed with faults)

Server: (totally assembled & No OS)

- Printer

Additional software

- Operating System (Windows XP Professional)
- Operating System (Windows Server 2003)
- Drivers for peripherals
- Symantec Anti-Virus
- Windows Server 2003 Resource Kit

Additional equipment

- Tool kit
- Antistatic table
- Wrist strap
- UTP Cramp Tool, Cable, Connectors
- CD-R
- UTP Cable Checker
- PCI Switching hub

- 8.5 m UTP
- (8) RJ45 Modular Plugs

MARKING SCHEME

Marking schemes will only be provided at the start of the competition

OTHER

Activity Log

Assembly Log

List of Hardware Elements

Laptop Troubleshooting Log
