

DAY 1

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1 EXAM

1.1 CONTENTS

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

1. TP39_day1-v1

1.2 INTRODUCTION

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

1.3 DESCRIPTION OF PROJECT AND TASKS

You work as an IT consultant for small companies. The advertising agency “adag” has ordered you for the project “Installation of a new computer environment”. You’ve already received the specifications for the project. You’ve analyzed it and wrote a summary about the installation steps.

Because the agency works especially for film-studios, they need a video streaming system for watching movies. The employees need remote connections to the office to work from outside.

You’ll find additional information as attachment.

1.4 PART 1

Work Task Server

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

- Assemble the server. Take care to follow ESD handling guidelines
- Set up the server with the operating system (Windows Server 2008). Ensure that all components are correctly installed
- Create partitions as follows: (RAID)
 - C: 36 GB
 - D: The rest of harddisk
- Please configure the server with the settings specified in the Appendix
- Install the services
 - Configure Active Directory
 - Create the Active Directory accounts with the information from appendix
 - DHCP Server
 - Range: 192.168.248.128 – 192.168.248.247
 - Gateway: 192.168.248.32
 - DNS: dnserver from exam
 - NAT to Internet
 - Streaming
 - Install the media server, MMC management and WEB management (files on CD-Rom)
 - Create on-demand publishing point with the movies from CD
 - Anonymous users are allowed to see the stream
 - Limit the max media players to 10

- Create a „index.html“ and publishing over IIS as start page. The content of the index.html needs to contain the streaming url
- Shared folders
 - Create shared folders on device D: with name „backup“ and „files“
 - Don't allow access except user „notebook“
- VPN Service
 - Configure a IPSEC VPN gateway with pre shared key
 - Use “calgary2009” as pre shared key
 - Use the addresses 192.168.248.248 -> 192.168.248.255 for VPN users
 - Make sure that no other VPN connection except L2TP/IPSEC is allowed to the server

1.5 PART 2

Work Task Network

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

- Connect the LAN cables based on the appendix network diagram
- Configure Cisco wireless access point with the settings specified in the appendix
 - Use the server as RADIUS server for 802.1X encryption

1.6 PART 3

Work Task Notebook

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

- Install „Microsoft Windows Vista Ultimate“
- Create partition that vista is Bitlock capable
 - C: 24 GB
 - D: rest of free space
- Please configure the Notebook with the settings specified in the appendix
- Connect the Notebook to the wireless network
- Encrypt the device D: with Bitlocker and save the key on a USB stick.
- Configure on the desk for the user „notebook“ a SSTP VPN Cconnection link
- Set the start page to 192.168.248.32
- Configure automatically backup from device D: to server share „backup“
 - The backup should running all day at 20:00 pm
- Connect the two network shares: „backup“ and „files“ from server and bind it to device z: and y:
 - backup -> z:
 - files:-> y:

2 APPENDIX

2.1 Specifications

2.1.1 SERVER SPECIFICATIONS

Organization:	adag company
Computer name:	adagsrv1
Domainname:	int.adag.org
User name:	Administrator
Administrator Password:	calgary09
TCP/IP Adress:	192.168.248.32/24
NetBios Name:	ADAG
ActiveDirectory Recovery Password:	calgary09\$

2.1.2 ACTIVE DIRECTORY USERS

Account	Group	Password
LocalUser (Administrator)	Administrators	calgary09\$
Manager	Administrators	123456
Support	Power Users	123456
User01	Domainusers	123456
...	...	
User100	Domainusers	123456

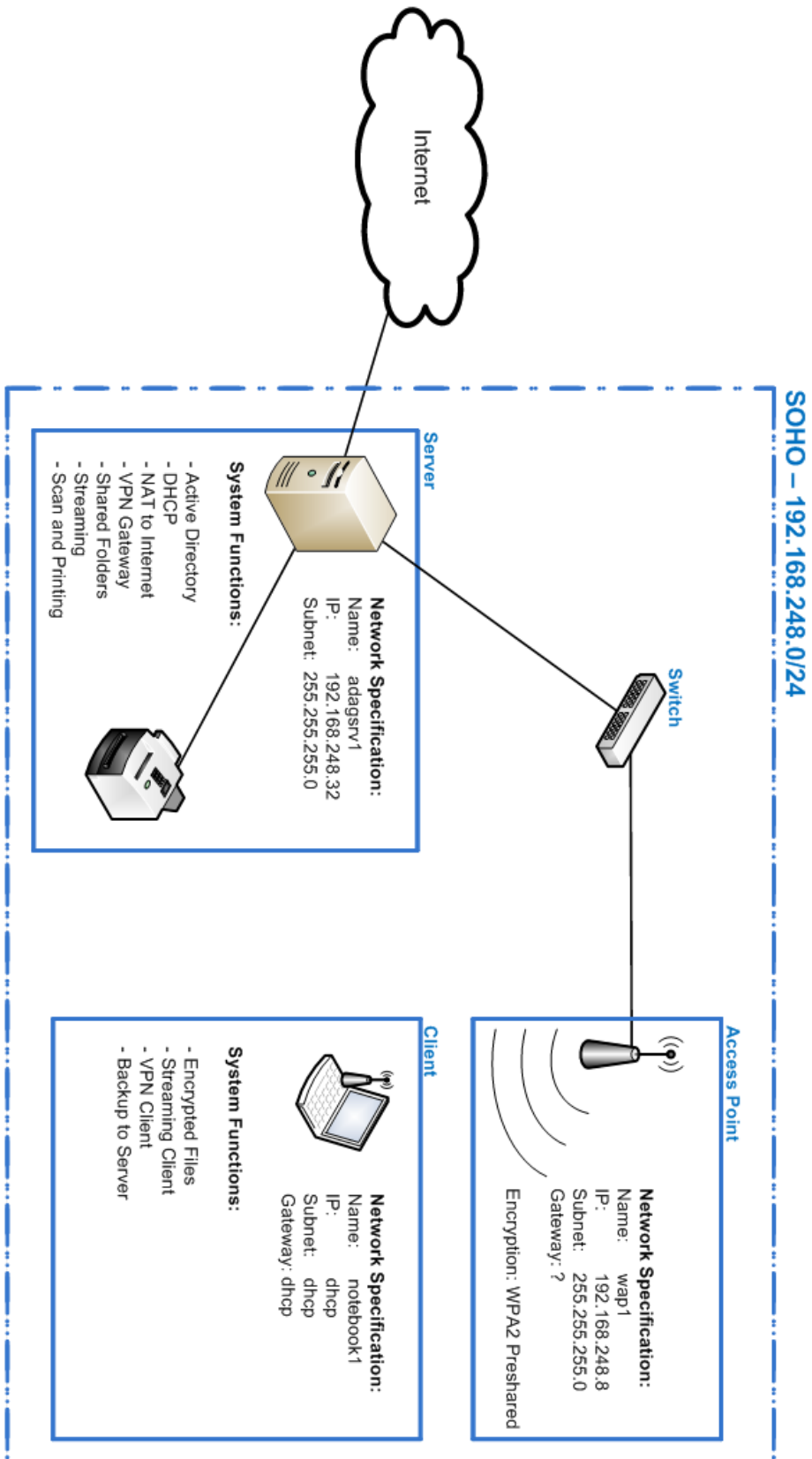
2.1.3 NOTEBOOK SPECIFICATIONS

Organization:	adag company
Computer name:	adagnb1
Domain Member:	int.adag.org
User name:	notebook
Password:	calgary09
TCP/IP Adress:	dhcp
Passwort information:	hardware

2.1.4 W-LAN SPECIFICATIONS

Encryption	WEP + 802.1X
SSID	TRADE39

day1 – small and home office appendix a



2.2 INSTRUCTIONS

2.2.1 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.

2.2.2 EQUIPMENT, MACHINERY, INSTALLATIONS AND MATERIALS REQUIRED

Server:

- PC - High Powered Desktop, 5 Nics, 160G HD, 4 G RAM, Quadcore

Notebook:

- Notebook assembled with no OS

Network:

- Cisco Switch
- Cisco Wireless Access Point

Additional software:

- Operating System (Windows Vista)
- Operating System (Server 2008)
- Drivers for peripherals
- Streaming Software/Sample Movie CD

Additional equipment: