Deployment Project

Summary:
You have been hired as a System Administrator and have several days to familiarize yourself with your new job position. You will be installing many stations in the next few months and want to prepare a checklist to cover these deployments in the event they ALL must be done manually. It is likely you will delegate this work to less technical personnel; you want to provide them will an easy to use punch list that will provide both procedural support to them and quality assurance to you or whomever is assigned to approve the performed installations. Prepare a Deployment Plan that will accomplish this task. You can use the scenarios we have built in class as a model for your plan. You need to know what logical steps and procedures to follow to build reliable and useful template forms for future deployments. Include some of our scenario work in your plan as an Appendix to demonstrate how "real data" would appear in your template.

Required:
This formal document must be typed and have appropriate formatting such as title page, header/footer (see this document), and pagination. There is no specific page requirement (it, however, should NOT exceed 10 pages). This document will be judged based on its use in a real-world setting like our classroom scenarios. You must include procedures, punch list, forms, etc. that deal with

- Hardware (Physical) configuration/topology
- Network (Logical) topology
- Organizational (Logical) topology
- Desktop (software) configuration

Optional:
Use of graphics like Visio, Excel, PowerPoint, or Word. These resources are available in the Megalab; time will be provided during class for this assignment when possible.

Appendix A

Suggested sample topics/themes/areas to include are listed below.

Hardware Template
OS-installer-version: Windows 2000 Professional
Installer Name:
Date: <Location, date and time of the actual install>
Computer\User name:

- Machine class: <Description of machine (eg, Desktop, laptop)>
- Processor class/size/speed:
- Memory class/size:
- Secondary (Root) Storage Device(s): <EIDE? SCSI? Name of device?> Root Size/partition table: Paste the full partition table, with notes on which partitions are mounted where.

Method: How did you install? What did you boot off? If network install, from where? Any proxy addressing?
Use MSINFO32, HWINFO, etc. wherever possible.

Base System Installation Checklist:

Initial boot worked:	[ ]
Configure network HW:	[ ]
Configuration network:	[ ]
Detect CD:	[ ]
Load installer modules:	[ ]
Detect hard drives:	[ ]
Partition hard drives:	[ ]
Create file systems:	[ ]
Mount partitions:	[ ]
Install base system:	[ ]
Install boot loader:	[ ]
Reboot:	[ ]

[O] = OK, [E] = Error (please elaborate below), [ ] = didn't try it

Comments/Problems:

Network Security Checklist

- Review existing Disaster Recovery Plan for security issues
- Write and enforce security policy
- Communicate security policy to all employees
- Identify vulnerabilities
- Enforce use of passwords
- Require minimum password length
- Require frequent password changes
- Disable Administrator user on servers (use another ID with equivalent privileges)
- Implement virus scanning on servers and workstations
- Implement firewalls between private and router access
- Restrict logins to TCP/IP ports
- Encrypt sensitive data in transit (e.g., use digital certificates)
- Implement automated, enterprise-wide virus detection
- Implement badge access for equipment and telecommunications rooms
- Use physical security methods like cameras to monitor perimeter and equipment rooms
- Perform security background checks on prospective employees
- Plan for security breaches by having a trained response team

Documenting the Network

When documenting your network infrastructure, obtain both hardware data to document your infrastructure's physical structure and software data to document the existence and configuration of the protocols in use on your network. You also need to document the logical organization of your network, name and address

resolution methods, and the existence and configuration of services used. Documenting the location of your network sites and the available bandwidth between them will also assist you in deciding whether to perform push or on-demand installations when you upgrade or migrate to Windows 2000 Professional.

Develop a physical and logical diagram of your network to help you organize the information you need to gather. Use this framework to compile information in an understandable and intuitive manner.

Physical Network Diagram

The physical diagram presents the following information about your existing network:

- Details of physical communication links, such as cable length, grade, and approximation of the physical paths of the wiring, analog, and ISDN lines.
- Servers, with computer name, IP address (if static), server role, and domain membership. A server can operate in many roles, including primary or backup domain controller, Dynamic Host Configuration Protocol (DHCP) service server, Domain Name System (DNS) server, Windows Internet Name Service (WINS) server, print server, router, and application or file server.
- Location of devices such as printers, hubs, switches, modems, routers and bridges, and proxy servers that are on the network.
- Wide area network (WAN) communication links (analog and ISDN) and the available bandwidth between sites. This might be an approximation or the actual measured capacity.

Document firmware version, throughput, and any special configuration requirements for any devices on the network. If you assign static IP addresses to any of these devices, record them. For

example, if you are using static addresses, you need the following information available:

- The MAC, IP address and subnet mask for each network adapter installed in the client.
- The IP address for the default gateway.
- Whether or not the client is participating in DNS or WINS.
- If the client is participating in DNS, the name of the DNS domain that the client is currently part of, and the IP addresses of the primary and backup DNS servers.
- If the client is participating in WINS and their IP addresses.

Physical Network Configuration

In general, document areas of your network configuration involved with:

- Name resolution services
- IP addressing methods and service configurations
- Remote and dial-up networking
- Bandwidth issues

Determine corporate assets/property that is mission-critical and/or requires increased security measures. Include functional areas in your current infrastructure assessment such as:

- File, print, HTTP, SMTP, Name (DNS, NBTNS) servers
- Line-of-business (LOB) application servers
- Directory service architecture
- Security (AAA) servers

Logical Network Diagram

The logical diagram shows the network architecture, including the following information:

- Domain architecture, including the existing domain hierarchy, names, and network addressing scheme.
- Server roles, including domain controllers, Name service servers, and DHCP service servers.

- Trust relationships, including representations of transitive, one-way, and two-way trust relationships.

Station Installation Form

NOS version: (such as Windows 2000 Professional/ Server/Advanced Server
Installer Name: _____
Date:_____
Model and Serial Number: _____
Processor: _____
Primary Storage (RAM): _____
Secondary Storage (Hard Disk): _____
Disk Controller Type(s): _____
Basic or Dynamic:
Partitions:

1: Type: Size: Name:
2: Type: Size: Name:
3: Type: Size: Name:
4: Type: Size: Name:

NIC 1 Type: _____ IRQ:_____ Base I/O: _____ DMA: _____
NIC 2 Type: _____ IRQ:_____ Base I/O: _____ DMA: _____
Network Protocols:

TCP/IP
NetBEUI on TCP/IP
NWLink IPS/SPX-Compatible Protocol IP Address: _____
Other: _____ Gateway: _____

DHCP Server: _____
DNS Server: _____
Server Name: _____
Workgroup or Domain Name: _____
Server Class: (such as Domain Controller/Member Server)
Category: (such as HTTP, SMTP, Database, etc.)
Licensing Mode: Per Server Per Seat
Product / Registration Key:
_____

User Account Creation Form

Requested by: _____
Approved by: _____
User Name: _____
User ID: _____
Department/location: _____ Phone: _____
Date Created: _____ By: _____
Context Domain (Windows 2000) or Other (NetWare): _____
Group memberships: _____
Profile Directory: _____
Home Directory: _____
Password restrictions:
    Minimum password length: ____ Require unique passwords? Yes No
    Days before password expires: ___ Grace logins: _____
Login restrictions:
    Valid login times: _____ Maximum connections: _____
    Address restrictions: _____ Location restrictions: _____

Technical Support Contacts Form

OEM Vendor Name: _____
Address: _____
General phone number: _____ Tech. support phone: _____
General Web page: _____Tech. support Web page: _____
Contact name: _____
Products supported:
    Product name: _____ Product license number: _____
    Product name: _____ Product license number: _____
    Product name: _____ Product license number: _____
    Product name: _____ Product license number: _____
Support agreement specifies:
Support experiences with vendor:
    Date: Reason for call: Resolution:
    Date: Reason for call: Resolution:
    Date: Reason for call: Resolution:
    Date: Reason for call: Resolution:
    Date: Reason for call: Resolution:

Incident Report Form

User name: _____
User ID: _____
Location: _____ Phone: _____
Date: _____ Time: _____
Received by: _____
Nature of the problem:

Resolution:
Date: _____ By: _____
Notes:

Follow-up Call:

Date: _____ By: _____
Notes:

Appendix B

Sample User Deployment Plan

User/Group Summary:

Users-	*Groups*	*Password*	*Profile*
aapple	Executive	Secret, Change on logon	Local
bbroccoli	Financial, IT_Staff	Shared, Set by Admin	Local
ccarrot	Local Admin, Executive, IT_Staff	Secret, Change on logon	Roaming
ddill	Financial	Shared, Set by Admin	Local
ittemp	IT_Temp	Shared, Set by Admin	Mandatory

Abraham Apple – CEO
Required:

Account Name – aapple, password set by user on logon
Group Membership – Executive, Financial
Local Profile – Blue background – Classic scheme
Display – default 1024x768 True Color 32-bit
SELECTABLE via Hardware Profile
Hardware Profile – Low res 640x480, high res 1024x768
Desktop:
No Admin Tools, No Personalized Menus, No Scroll Program Menu
Delete all except My Computer, My Network Places and Recycle Bin
Add Logoff to Start Menu
Auto Hide Taskbar

Barbara Broccoli – VP of Finance
Required:

Account Name – bbroccoli, password set by Admin, common to ddill, no change
Group Membership – Financial, IT_Staff
Local Profile – Light Green background – Classic Scheme
Display – 1024x768 True Color 32-bit
Hardware Profile – None
Recovery Console
Desktop:
No Admin Tools, No Personalized Menus, No Scroll Program Menu
Hide Taskbar
Show file extensions
Start Menu Shortcut to customized folders in My Documents

Special Folder arrangement:
\Financial Reports
\FinRep00
\FinRep01
\FinRep02
\FinRep03

Charles Carrot – CIO

Required:

Account Name – ccarrot, password set by User on logon
Group membership – Local Administrators Group, Executive, IT_Staff
Local Profile – Light Green background – Classic Scheme
Display – 1024x768 True Color 32-bit
Hardware Profile – None
Desktop:
No Admin Tools, No Personalized Menus, No Scroll Program Menu
MMC (*4chuck.msc***) *with DHCP, DNS, WINS, EV; shortcut on Taskbar***
Start Menu Shortcut to customized folders in My Documents
Add Briefcase to Desktop

Daisy Dill – Controller

Required:

Account Name – ddill, password set by Admin, common to bbroccoli, no change
Group membership - Financial
Local Profile – Classic Extra Large Display Scheme
Display – 640x480, True Color 32-bit
Hardware Profile – None
Desktop:
No Admin Tools, No Personalized Menus, No Scroll Program Menu
Screen Saver, Scrolling Marquee, 1 minute delay– "I'll be Back Soon"

IT Tempory – Template

Required:

Account Name – ittemp, password set by Admin,
Group membership – IT_TEMP
Local Profile – Classic Display Scheme
Display – 1024x768, True Color 32-bit
Hardware Profile – None
Desktop:
Display Admin Tool,
No Personalized Menus
No Scroll Program Menu