

## Case Study # 18

You are a Network Consultant with specialized skills in designing Win2000 directory services. You are recently requested by ProStaff to design the security and the directory for the entire company.

### Background

ProStaff is a temporary staffing agency that provides companies with temp employees. It employs 2,500 people nationwide. Its headquarter is located in Jacksonville; Florida. Headquarter includes the accounting, payroll, human resources, and IT departments.

ProStaff has branch offices in 200 locations nationwide. Several branch offices that are in the same geographic area make up a region. There are eight regions.

There are payroll centers in Dallas, Texas, and San Francisco. Florida Payroll centers process paychecks for all employees within their region.

### Existing IT Environment

All headquarters employees, except employees within the IT department, use Windows 98 desktop computers. The IT department uses Windows NT Workstation 4.0 desktop computers.

ProStaff Corporation has 28 Windows NT Server 4.0 computers at headquarters. One of these computers is a certificate server that is not being used, two are file servers that store company data, and 25 run Windows NT Server 4.0, Terminal Server Edition.

ProStaff Corporation has one Outlook Web Access server named OWA1, two domain controllers named DC1 and DC2, three Microsoft Exchange Server 5.5 computers, four UNIX servers that contain Oracle databases, and one remote access server named RAS1. On-site employees use OWA1 to connect to headquarters. Anonymous users can connect to OWA1 to post resumes to an Exchange public folder named Recruiting and to fill out online applications. Each branch office has access to this public folder. The IT representative maintains control of this folder.

The company also maintains an Intranet, which includes Web pages for technical support, human resources information, and other company information. Branch offices all have desktop terminals and one computer with a modem. The branch offices connect to a Terminal server at headquarters.

There are no servers in the branch offices. All headquarters employees are granted access to e-mail and the Internet. Users in branch offices and on-site offices are granted access to e-mail and the Internet from the computers. Users of desktop terminals are not granted access to the Internet. Branch offices are connected to headquarters by fractional T1 lines with a committed information rate of 128 Kbps.

ProStaff Corporation has a T1 line to the Internet. The company's domain name is ProStaff.com. ProStaff Corporation maintains a web page under this domain. On-site offices are not connected to the WAN.

## Envisioned IT Environment

ProStaff Corporation wants to upgrade its network to Windows 2000 and use one Active Directory tree. All Terminal servers will use the Terminal Services feature. All desktop computers will be upgraded to Windows 2000 Professional.

ProStaff has plans to add an additional remote access server, which will be named RAS2. It will add an Internet Information Services server. OWA1 will not be upgraded to Windows 2000. WAN bandwidth will remain the same.

## Security

ProStaff has implemented digital certificates to communicate securely with customers. It has implemented one enterprise root CA. It wants to set up a certificate server for internal use only. It also wants to implement secure communications to the Human Resources shared folder to prevent theft of confidential data during transmission.