

7/9/2010

Introduction

This document is a whistle-stop tour of your new Windows network. Each server is briefly described, and several key design decisions are discussed from a strategic viewpoint.

First, a network diagram:

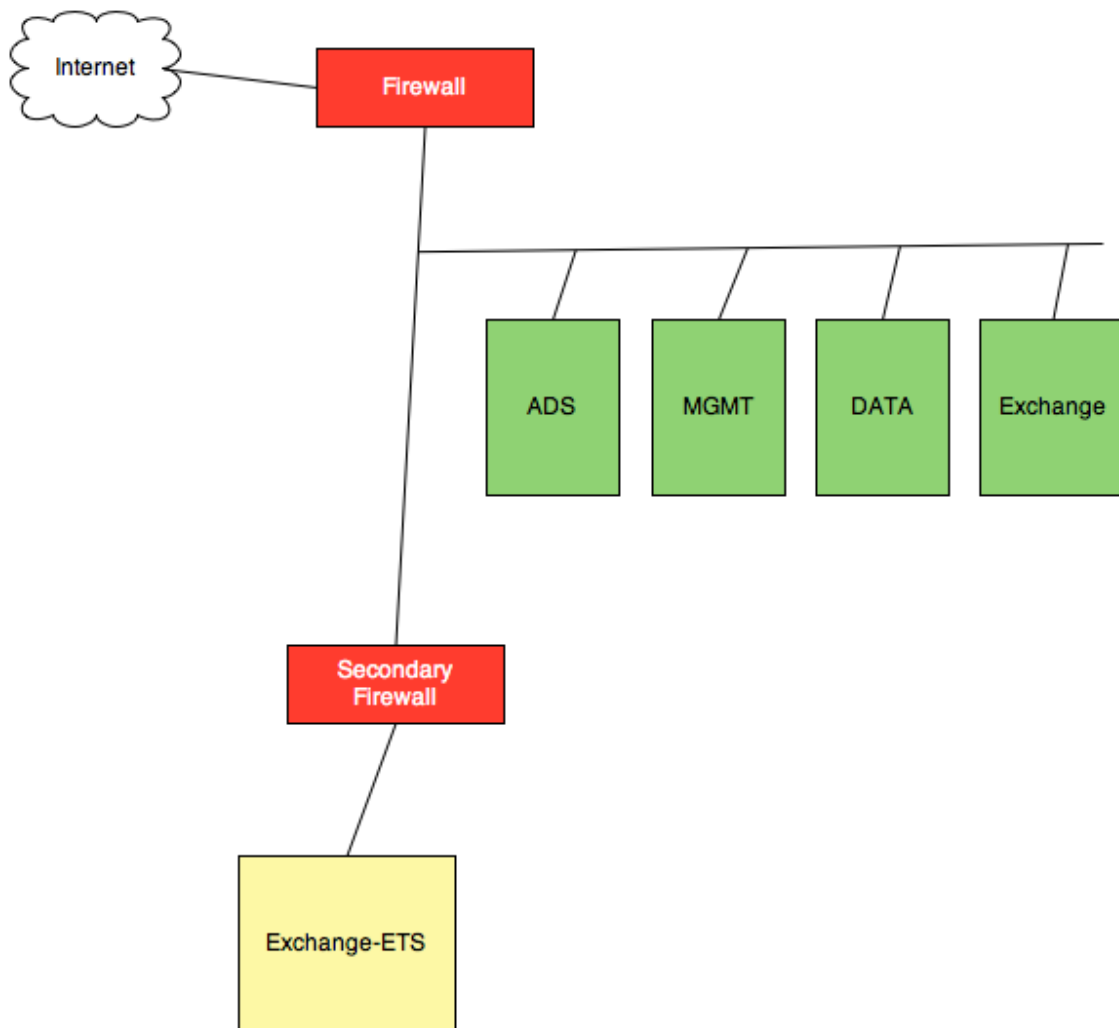


Figure 1: Model Windows Network

ADS (Active Directory Services)

The ADS server acts as the Primary Domain Controller emulator for your Windows domain, and in some configurations also runs Microsoft Certificate Services.

For reliability reasons, the ADS server exclusively runs Active Directory. Active Directory (AD) plays the role that eDirectory (NDS) did on your Novell network.

ADS Roles

- Manages User Login Accounts & Passwords
- Manages Workstation Login Accounts & Passwords
- Manages Groups and Group Memberships
- Manages Group Policy (User & Workstation Settings)

MGMT

The Management Server runs SCCM (System Center Configuration Manager) and App-V Application Virtualization.

MGMT Roles

- Deploys Applications
- Images Workstations

DATA

The Data Server stores user data files, roaming profiles, shared folders, and also manages network printers. In most implementations it also acts as an additional Active Directory Domain Controller, both to provide redundancy and maximize login performance.

Exchange

Hosts the district's Exchange email server and, in many implementations, acts as the district web server and WebDAV server (for remote home directory access).

Exchange-ETS

Acts as the Exchange 2010 Edge Transport Server, which accepts email from and sends email to remote sites over the Internet. Microsoft added this role with Exchange 2007, to facilitate and encourage placement of the most vulnerable part of organizations' messaging infrastructures within a DMZ. Microsoft requires that the ETS not be a member of any Windows domain.

To retain the security benefit of placing the ETS within a DMZ while also preserving our customers' investment in Lightspeed email filtering, we have been utilizing a second DMZ that is beyond the initial district firewall. We believe that this is the least expensive supported option for continuing to use Lightspeed email filtering while preserving the design principles behind Microsoft's ETS server requirements.