

# Real-World Scenario 10-2: Selecting the Correct Authentication Technology

**Scenario:** There are many types of authentication technologies. Your organization employs two localized authentication technologies and two remote authentication technologies. It uses a Microsoft Windows Server that runs Active Directory. Also, it uses the PPTP protocol. Finally, the remote authentication technology uses UDP as the transport mechanism.

Your task is to identify the four types of authentication technologies your organization uses, describe each one briefly, and specify the inbound port for each. Enter that information in the following table.

Authentication Technology	Brief Description	Port Number Used

## Real-World Scenario 10-2 Solution

This chapter contains many types of authentication technologies, but this particular scenario was asking for four: Kerberos and LDAP, which are used by Active Directory on Microsoft Windows Server domain controllers; a Remote Access Service (namely VPN) in this case utilizing PPTP; and RADIUS server, which uses UDP as its transport mechanism. See the following table for the rest of the solution.

Authentication Technology	Brief Description	Port Number Used
Kerberos	Authenticates users in an Active Directory environment.	88
LDAP	Controls access for users and computers in an Active Directory environment.	389 (636 for Secure LDAP)
Remote Access Service (VPN using PPTP)	Allows remote access for computers outside the LAN.	1723
RADIUS	A powerful remote authentication technology used with VPN. It utilizes the UDP transport mechanism.	1812 and 1813 (sometimes port 1645 and 1646)

**Simulation:** Complete the simulation "10-2: Selecting the Correct Authentication Technology."