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# Objective

Design a proper identity access control for data access and remote access.

# Instructions

# Part 1: Data Access

You are working at a pharmaceutical research company as an information security officer. You are tasked to write a policy regarding access to the research system that contains confidential research databases.

Create an identity access control policy that serves as a guideline for system administrators who are managing the identities used on the research system. Your policy should include the following subsections:

* Identification
  + Select a directory service to manage identity access on this system.
  + Create user identification guidelines and the requirements for identification format.
* Authentication
  + Using a password as the first factor, create a password complexity requirement.
  + Choose the appropriate second factor authentication and outline any specific requirements for it.
* Accountability
  + Create a desktop session control policy.
  + Create an auditing plan including what to audit, how often and by who.

# Part 2: Remote Access via VPN using 2FA

1. Create a diagram showing the components below (hand drawn or in Visio). Use your knowledge of building a secured network to properly place the components in the diagram.

* External firewall
* Internal firewall
* Second factor authentication server
* First factor authentication server
* VPN server
* Remote user
* Internal network
* Internet
* DMZ

1. Choose the appropriate first factor and second factor authentication services for the VPN remote access, and then justify your choice.