

Please note that these are not necessarily comprehensive, and that the questions on the exam will be worded differently.

- What is LDAP? What is Active Directory (AD)?
- Describe a key difference between AD and LDAP.
- What is a distinguished name? Give an example of one.
- Why would we want to have multiple domain controllers, within a single domain, in an AD setup?
- What are the purposes of guest tools, such as VMware Tools?
- What is the concept of trust within an AD forest?
- What is the purpose of a functional level in AD?
- How would you handle different versions of Windows on a network that you wish to apply a group policy to?
- What are two purposes of virtualization?
- Assume we want to perform a live migration (move from one physical host to another) in Xen (though also applies to other virtualization technologies). What are the two requirements for doing so?
- How would you share files on a Windows network that does not use Active Directory (emailing / Dropbox not allowed)? On one that does?
- What is something we need to consider when selecting a version of Windows Server?
- Describe, in detail, two server roles.
- What is the Principle of Least Privilege?
- What is an Active Directory:

a) Forest

b) Domain Tree

c) Domain

- Given the following LDAP tree, what is the distinguished name, starting with the user's ID?

dc=edu

dc=oakland

ou=people

uid=user1

objectClass=inetOrgPerson,posixAccount

cn=CIT349 User

uid=user1

mail=user1@cit349.local

- If we are performing an LDAP bind, what are we actually doing?
- How does PowerShell send data between cmdlets?
- What is one difference between full virtualization (i.e., bare-metal virtualization) and paravirtualization (i.e., OS-assisted virtualization)?
- Describe three types of servers that could be virtualized and why.
- In terms of virtualization, what is an 'enlightened guest'?
- Why do we use application servers?
- What is the difference between a local, single-tier (client/server), and n-tier application?
- Be able to write a PowerShell scripts for:
 - Adding and removing a list of users to a specific AD domain.
 - Resetting the password of a list of users
 - Creating a website
 - Checking if a process is frozen and restarting it