**AZ-104 Azure Administrator**

**https://www.youtube.com/watch?v=5D0UXlZobGo**

* Manage Azure identities and governance (15-20%)
* Implement and manage storage (15-20%)
* Deploy and manage Azure compute resources (20-25%)
* Configure and manage virtual networking (25-30%)
* Monitor and back up Azure resources (10-15%)

**Course Outline**

* **Total 11 Modules**

1. Identity
2. Governance and Compliance
3. Azure Administrator
4. Virtual Networking
5. Inter-site Connectivity
6. Network Traffic Management
7. Azure Storage
8. Azure Virtual Machines
9. Server less Computing
10. Data Protection
11. Monitoring

**Create users & groups**

* Two Types Of Users in Azure AD: **1. Cloud Only Users 2. Hybrid Users**
  + - * Cloud Only Users: Cloud only users are created and managed exclusively in Azure AD. // their attributes can be updated directly in Azure AD // we can create cloud-only user through the 1. Azure Portal 2. Azure PowerShell 3. Azure CLI
      * Hybrid Users: Accounts will create on-premises and we will sync with Azure AD
* Groups are objects // It will make role assignments and access permissions easier to manage // A group can contains groups, users, devices, or service principles from the Azure portal, Azure PowerShell, The Azure CLI, and Microsoft Graph.
* For Bulk user creation 🡪Download csv template (Fill all the user required details) 🡪Upload
* We can invite bulk user 🡪 Download csv template (Fill all the user required details) 🡪Upload
* **2. Manage** **user & groups properties**
  + - * We can only create a dynamic group if we have a Premium AD license.
      * We can create a dynamic group for users or devices, but cannot create both at the same time.
      * We can change membership type of a group from static to dynamic
      * Users and groups can be updated using management tools such as Azure portal, Azure PowerShell, The Azure CLI, and Microsoft Graph.
      * We can change a user’s job title, add or remove members from an existing group.
      * Can’t change group type (Security office and office 365) change group name, description and members.

**Create users & groups – Practical Lab**

<https://portal.azure.com/> (Search Active Diectory) or <https://admin.microsoft.com> some other way also to open azure AD

1. **Identity (Azure Active Directory)**

* **Overview:** (A. Azure Active Directory B. Azure AD Concepts C. AD DS Vs. Azure AD D. Azure Active Directory Editions E. Azure AD Join F. Multi-Factor Authentication G. Self-Service Password Reset)
* **A. Azure Active Directory:** 
  + - * **Azure AD is Microsoft multi-tenant cloud based directory and identity management service**

**Modules**

* Azure Active Directory:
  + - * Azure Active Directory (Azure AD) is a multi-tenant, cloud-based identity and access management service.
      * AD primarily used on-premises
      * Azure AD primarily used for the cloud
      * User get authenticated with Azure AD when using
      * We can register all our devices to Azure AD (Desktop, Laptop, Tablet, Mobile, etc..)
      * We can create users, groups, contacts, etcc.. We can also modify and delete.
      * We can gives access to vendors. Ie, users outside of the organization
      * Allow customers to sign-in to application using their social media.
      * Azure AD B2C as well as B2B
* Managing Azure AD Objects:

1. Create users & groups
2. Manage user & groups properties
3. Manage device settings
4. Perform bulk user updates
5. Manage guest accounts
6. Configure Azure AD Join
7. Configure self-service password reset