Azure Architecture Description :

1. **Resource Group**
   All components are organized within a single resource group for simplified management, cost tracking, and deployment control.
2. **Virtual Network (VNet)**
   One virtual network is defined to provide secure, isolated communication between all resources.
3. **Subnets**
   The VNet contains two subnets:
   - subnet1 for web resources
   - subnet2 for database resources
4. **Web Subnet (subnet1)**
   - Contains **two virtual machines (VMs)** running Windows Server and IIS
   - A **Load Balancer** distributes HTTP traffic between the two VMs
   - The entire subnet is protected by a **Network Security Group (NSG)** to allow only specific traffic (e.g., HTTP & RDP)
5. **Database Subnet (subnet2)**
   - Hosts an **Azure SQL Database**
   - Access is restricted using a **Private Endpoint**, ensuring the database is only accessible from within the VNet
6. **Private DNS Zone**
   - A Private DNS Zone (privatelink.database.windows.net) is linked to the VNet to resolve the SQL database via the private endpoint
7. **Azure File Share**
   - A file share is created and **mounted to both VMs** in subnet1 as drive Z:, allowing shared access to files and logs
8. **Monitoring and Alerts**
   - A **Log Analytics Workspace** is configured to collect metrics (e.g., CPU usage)
   - An **Alert Rule** is created to notify when CPU usage exceeds 80% on any VM
9. **Automation**
   - An **Azure Automation Account** is configured
   - A **Runbook** is scheduled to shut down VMs every night at 11 PM (Montreal time), helping reduce cost during idle hours