Provisioning a SQL Server on Azure using the Azure portal involves several steps. Here’s a guide to help you set up SQL Server on Azure:

**Step 1: Log in to the Azure Portal**

1. Navigate to the [Azure Portal](https://portal.azure.com/).
2. Sign in with your Azure account credentials.

**Step 2: Create a SQL Server Virtual Machine**

1. **Navigate to the SQL virtual machines blade**:
   * Search for "SQL virtual machines" in the search bar at the top of the portal and select it from the results.
2. **Create a SQL VM**:
   * Click on "Add" to create a new SQL virtual machine.
3. **Basic Settings**:
   * **Subscription**: Select your Azure subscription.
   * **Resource Group**: Select an existing resource group or create a new one.
   * **Virtual Machine Name**: Enter a name for your SQL Server VM.
   * **Region**: Choose the Azure region where you want to deploy the VM.
   * **Image**: Choose the SQL Server image you want to use (e.g., SQL Server 2019 on Windows Server 2019).
   * **Size**: Select the size of the VM based on your performance needs.
4. **Administrator Account**:
   * **Username**: Enter a username for the VM.
   * **Password**: Enter a strong password and confirm it.
5. **Disks**: Configure the OS disk and any additional data disks as needed.

**Step 3: Configure Networking**

1. **Virtual Network**: Select an existing virtual network or create a new one.
2. **Subnet**: Choose a subnet within the virtual network.
3. **Public IP Address**: Select an existing public IP or create a new one.
4. **Network Security Group (NSG)**: Configure inbound and outbound rules. Ensure port 1433 is open for SQL Server.

**Step 4: SQL Server Settings**

1. **SQL Connectivity**: Set SQL connectivity to "Public (Internet)" if you want the SQL Server to be accessible over the internet.
2. **SQL Authentication**: Enable SQL authentication if required and set the SQL Server admin login and password.

**Step 5: Review and Create**

1. **Review your settings**: Make sure all the settings are correct.
2. **Create**: Click on "Create" to start the deployment.

**Step 6: Configure SQL Server on the VM**

1. **RDP to the VM**:
   * Once the VM is deployed, connect to it using Remote Desktop Protocol (RDP).
2. **SQL Server Configuration**:
   * Open SQL Server Management Studio (SSMS) or use SQL Server Configuration Manager to configure SQL Server settings as needed.

**Step 7: Set Up Firewall Rules**

1. **Azure Portal**:
   * Navigate to your SQL VM resource.
   * In the "Settings" section, select "Networking".
   * Add inbound port rules to allow traffic on port 1433 (default SQL Server port).
2. **SQL Server Configuration**:
   * Ensure that SQL Server is configured to allow remote connections. In SSMS, right-click on the server name, go to "Properties", then "Connections", and check the box for "Allow remote connections to this server".

**Step 8: Connect to SQL Server**

1. **Connection String**:
   * Use the public IP address or DNS name of the VM to connect to SQL Server from your client machine using SSMS or your application.
   * Example connection string: Server=tcp:<your\_public\_ip>,1433;Initial Catalog=<your\_database>;User ID=<your\_username>;Password=<your\_password>;

By following these steps, you should be able to provision and configure SQL Server on Azure using the Azure portal. Let me know if you need further assistance!