

To ensure the seamless setup and efficient functioning of the PowerBI application, specific software and configurations were deemed essential. These included:

1. **Microsoft Power BI:** Serving as the primary application for data visualization and analysis, Microsoft Power BI facilitated the creation of interactive visualizations and comprehensive business intelligence reports.
2. **Sophos VPN Client:** The installation and configuration of the Sophos VPN client were crucial for establishing a secure connection to the EMB Region 8 ECC network. This facilitated secure data transfer and authorized access to the central office network.
3. **DBeaver or MySQL:** The installation of DBeaver or MySQL was imperative to enable smooth database connections and management. These tools offered user-friendly interfaces for efficient database querying and management.

For the successful establishment of connections to the EMB Region 8 ECC and Hazwaste, the following steps were meticulously executed:

**For EMB Region 8 ECC:**

1. In Sophos VPN connection import the given Config File.
2. Using the provided login credentials, the Sophos VPN connection was established with the following details:
  - Username: r08powerbi
  - Password: r08zPvR5m94H5\*

**For Hazwaste:**

1. Access to the SSH tab in the DBeaver application was granted, utilizing the provided IP address and port number.
  - IP: 192.168.88.248
  - Port: 50122
2. The username 'dataviewer' and password 'dataview' were entered within the main tab for streamlined data analysis and management.
3. Verification of the connection status was conducted by selecting "Okay" and inspecting the DBeaver sidebar tab.

Upon successful connection to the EMB Central office network and databases, the subsequent steps were carried out within the PowerBI application:

1. The PowerBI application was opened.
2. The "Get Data" tab was selected, with MS SQL chosen for ECC and MySQL for Hazwaste, enabling a direct connection to the designated databases through the provided IP address (192.168.91.219).
3. Subsequently, the creation of visual applications and the analysis of data were initiated within the PowerBI platform, facilitating insightful data-driven decision-making processes.