In Azure, a **VPN Gateway** is a virtual network gateway that enables secure, encrypted communication between your on-premises network and your Azure virtual network (VNet) over the public internet. It serves as a bridge between on-premises resources and cloud resources, allowing you to extend your on-premises network to the cloud securely.

**Key features of an Azure VPN Gateway:**

1. **Site-to-Site (S2S) VPN**: This allows you to securely connect an entire on-premises network to an Azure VNet over the internet. This is often used for hybrid cloud scenarios.
2. **Point-to-Site (P2S) VPN**: This enables individual devices (like laptops or remote servers) to securely connect to an Azure VNet. It's typically used for remote access by employees or IT admins.
3. **VNet-to-VNet VPN**: This allows you to connect two Azure VNets securely, enabling communication between them over the internet.
4. **Multiple Tunnel Support**: Azure VPN Gateway supports multiple IPsec/IKE tunnels, providing redundancy and high availability for connections.
5. **Security**: The connection is encrypted using industry-standard protocols (IPsec and IKE) to ensure secure communication over the public internet.
6. **Routing**: It uses Border Gateway Protocol (BGP) for dynamic routing, which automatically adjusts to network changes, ensuring the communication path remains optimal.
7. **High Availability**: You can configure VPN Gateway with active-active or active-standby modes for greater availability and failover capabilities.

**Common Use Cases:**

* **Hybrid Connectivity**: Connecting an on-premises data center to Azure VNets for data migration or hybrid cloud applications.
* **Remote Worker Access**: Allowing employees to securely connect to Azure VNets from remote locations.
* **Multi-Region Connectivity**: Connecting Azure VNets in different regions to ensure seamless communication.

In summary, a VPN Gateway in Azure is used to securely connect on-premises networks, remote clients, or multiple VNets to Azure over the internet, providing encrypted and secure communication between networks.