Hybrid connections

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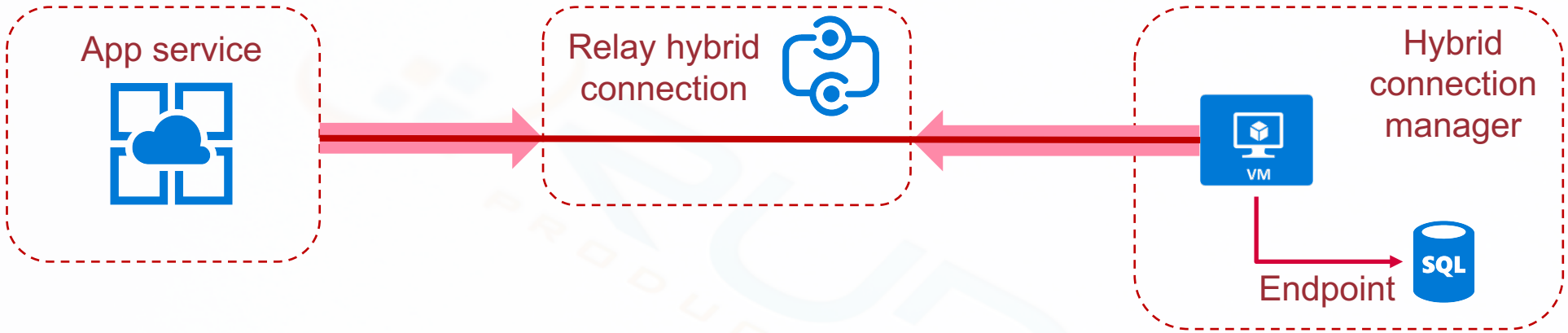
- Hybrid Connections is both a service in Azure and a feature in Azure App Service. As a service, it has uses and capabilities beyond those that are used in App Service.
- Within App Service, Hybrid Connections can be used to access application resources in other networks
- As used in App Service, each Hybrid Connection correlates to a single TCP host and port combination. This means that the Hybrid Connection endpoint can be on any operating system and any application, provided you are accessing a TCP listening port.
- The Hybrid Connections feature does not know or care what the application protocol is, or what you are accessing. It is simply providing network access.

How it works



- The Hybrid Connections feature consists of two outbound calls to Azure Service Bus Relay. There is a connection from a library on the host where your app is running in App Service. There is also a connection from the Hybrid Connection Manager (HCM) to Service Bus Relay.

- Through the two joined connections, your app has a TCP tunnel to a fixed host:port combination on the other side of the HCM. The connection uses TLS 1.2 for security and shared access signature (SAS) keys for authentication and authorization.

Hybrid connections benefits and limitations

- Benefits
  - Apps can access on-premises systems and services securely.
  - The feature does not require an internet-accessible endpoint.
  - Because the feature is network level, it is agnostic to the language used by your app and the technology used by the endpoint.
  - It can be used to provide access in multiple networks from a single app.
- Limitations
  - Using UDP.
  - Accessing TCP-based services that use dynamic ports, such as FTP Passive Mode or Extended Passive Mode.
  - Supporting LDAP, because it sometimes requires UDP.