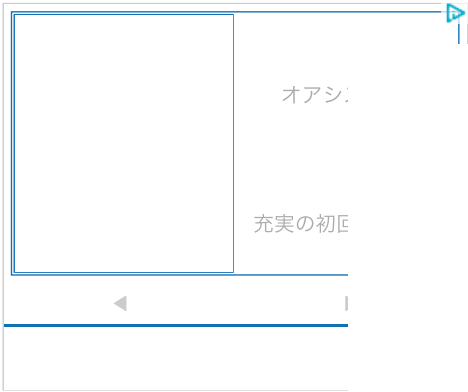


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Wednesday, August 10, 2016

## neutron server to DHCP agent and DHCP agent to neutron server RPC call example

### 1) DHCP agent Service

a)  
**client side API:**  
neutron.agent.dhcp.agent.DhcpPluginAPI  
neutron/agent/dhcp/agent.py

b)  
**Server side API:**  
neutron.agent.dhcp.agent.DhcpAgent  
neutron/agent/dhcp/agent.py

\* Here client and server side API classes are defined in same file neutron/agent/dhcp/agent.py

### 2) Neutron Server service

a)  
**Server side API:**  
neutron.api.rpc.handlers.dhcp\_rpc.DhcpRpcCallback  
neutron/api/rpc/handlers/dhcp\_rpc.py

b)  
**client side API:**  
neutron.api.rpc.agentnotifiers.dhcp\_rpc\_agent\_api.DhcpAgentNotifyApi  
neutron/api/rpc/agentnotifiers/dhcp\_rpc\_agent\_api.py

3)  
**Here:**  
1a (DhcpPluginAPI) make rpc call to 2a (DhcpRpcCallback)  
2b (DhcpAgentNotifyApi) make rpc call to 1b (DhcpAgent).

\* DHCP agent Service make rpc call to Neutron Server Service.  
\* Neutron Server also make rpc call to DHCP agent Service.

### Neutron RPC APIs

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As discussed before, RPC APIs are defined in two parts: a client side and a server side. Several of these pairs exist in the Neutron code base. The code base is being updated with documentation on every rpc interface implementation that indicates where the corresponding server or client code is located.


Example: DHCP

The DHCP agent includes a client API, `neutron.agent.dhcp.agent.DhcpPluginAPI`. The DHCP agent uses this class to call remote methods back in the Neutron server. The server side is defined in `neutron.api.rpc.handlers.dhcp_rpc.DhcpRpcCallback`. It is up to the Neutron plugin in use to decide whether the `DhcpRpcCallback` interface should be exposed.

Similarly, there is an RPC interface defined that allows the Neutron plugin to remotely invoke methods in the DHCP agent. The client side is defined in `neutron.api.rpc.agentnotifiers.dhcp_rpc_agent_api.DhcpAgentNotifyApi`. The server side of this interface that runs in the DHCP agent is `neutron.agent.dhcp.agent.DhcpAgent`.


Posted by Admin at 6:37 PM  
Labels: neutron, neutron dhcp agent

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



















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