TK035: OpenStack Troubleshooting and Tuning

Duration

2.0 Days

Course Content

1. Neutron Architecture

- 1.1. OpenStack architecture
- 1.2. Basic implementation with Open vSwitch
- 1.3. High availability
- 1.4. High availability using distributed virtual routing

2. Neutron Plug-ins and Extensions

- 2.1. Neutron plug-ins and extensions overview
- 2.2. Modular Layer 2
- 2.3. Open vSwitch architecture
- 2.4. DHCP
- 2.5. Overlay networks
- 2.6. Load-Balancer-as-a-Service (LBaaS) and Firewall-as-a-Service (FWaaS)
- 2.7. Namespaces, security groups, and iptables

3. Managing Networks with the CLI, cURL, and REST API

- 3.1. Representational State Transfer (REST)
- 3.2. Managing Neutron

4. Troubleshooting Methodology and Tools

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4.1. The HP Troubleshooting methodology

4.2. Managing logging levels and examining log files

4.3. Using Neutron troubleshooting tools

4.3.1. The ip command

4.3.2. Network namespaces

4.3.3. Debugging tools

4.3.4. Ping and SSH

4.3.5. The traceroute command

4.3.6. The dig command

4.3.7. Tcpdump

4.3.8. Wireshark

4.3.9. Nagios

4.3.10. RabbitMQ

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