OVSDDB : Helium Release Review

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Features

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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<tr>
<td>Reference OVSDDB Java Library: Redesigned OVSDDB Library</td>
<td>The library can be used separately by any Java OVSDDB implementation to help serve as a reference implementation.</td>
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<tr>
<td>Schema independent OVSDDB Plugin</td>
<td>OVSDDB plugin can be used for any OVSDDB schema (not attached to open_vSwitch schema alone)</td>
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<tr>
<td>Implement a strong CI framework</td>
<td>Avoid developer downtime, reduce software bugs and increase the quality of the final deliverable</td>
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<td>OVSDDB Net-Virt infra : NXM extensions:</td>
<td>Upstream extensions Openflowlibrary project in order to leverage necessary extension to develop OpenStack services in the OVSDDB Neutron integration.</td>
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<tr>
<td>Integrate OpenStack Security Groups and Rules</td>
<td>First of many OpenStack Neutron service integration. This will consolidate Port security functionality into the OVS network forwarding pipeline rather than the IP Tables Linux daemon.</td>
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<tr>
<td>Distributed Virtual Router</td>
<td>Distributed Virtual Layer3 forwarding</td>
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<td>Integrate OpenStack Neutron LBaaS</td>
<td>Integrate LoadBalancer As a Service</td>
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<td>ARP Responding/Handling</td>
<td>L3 East/West forwarding distributed to the hypervisor</td>
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<td>VLAN Support</td>
<td>To facilitate traditional non-overlay fabric integration.</td>
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Non-Code Aspects (user docs, examples, tutorials, articles)

- Installation Guide and Developer Guide in ascii doc gerrit
  - (Opendaylight OVSDDB YouTube Channel)

Architectural Issues

None of note.

Security Considerations

SSL/TLS enabled OVSDDB connection is NOT supported in this release.

Quality Assurance (test coverage, etc)

We have a reasonable test coverage (~50% UI/IT). But the Sonar coverage is currently disabled due to an infra issue we hit. We will re-enable it to get a latest coverage details.

End-of-life (API/Features EOLed in Release)

We discontinued the support for OF1.0 legacy Openflow Southbound plugin.
Bugzilla (summary of bug situation)

- bugzilla bugs
  - Some of the bugs needs to be cleaned up.

Standards (summary of standard compliance)

RFC7047

Schedule (initial schedule and changes over the release cycle)

- [Release plan]
- Delivered all features except FWaaS
- Documentation is still in the Gerrit queue and is not merged yet.