Abstract
This document compiles the release notes for the Arno SR1 release of OPNFV when using Fuel as a deployment tool.

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Version history

<table>
<thead>
<tr>
<th>Date</th>
<th>Ver.</th>
<th>Author</th>
<th>Comment</th>
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Important notes
For the first OPNFV release (Arno), these notes introduce use of OpenStack Fuel <https://wiki.openstack.org/wiki/Fuel> for the deployment stage of the OPNFV continuous integration (CI) pipeline. The goal of the Arno release and this Fuel-based deployment process is to establish a foundational platform accelerating further development of the OPNFV infrastructure.

Carefully follow the installation-instructions and pay special attention to the pre-deploy script that needs to be run before deployment is started.

Summary
For Arno SR1, the typical use of Fuel as an OpenStack installer is supplemented with OPNFV unique components such as OpenDaylight version Helium as well as OPNFV-unique configurations.

This Arno artefact provides Fuel as the deployment stage tool in the OPNFV CI pipeline including:

- Documentation built by Jenkins - this document (release notes) - installation instructions - build-instructions
- The Arno Fuel installer image (.iso) built by Jenkins
- Automated deployment of Arno with running on bare metal or a nested hypervisor environment (KVM)
- Automated validation of the Arno deployment

Release Data

<table>
<thead>
<tr>
<th>Project</th>
<th>genesis/bgs</th>
</tr>
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<tbody>
<tr>
<td>Repo/tag</td>
<td>genesis/arno.2015.2.0</td>
</tr>
<tr>
<td>Release designation</td>
<td>Arno Base Service release 1 (SR1)</td>
</tr>
<tr>
<td>Release date</td>
<td>2015-10-01</td>
</tr>
<tr>
<td>Purpose of the delivery</td>
<td>OPNFV Arno Base SR1 release</td>
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Version change

Module version changes
This is the second tracked release of genesis/fuel. It is based on following upstream versions:

- Fuel 6.1.0
- OpenStack Juno release
- OpenDaylight Litium release

Document version changes
This is the second tracked version of the fuel installer for OPNFV. It comes with the following documentation:

- OPNFV Installation instructions for Arno with Fuel as deployment tool
- OPNFV Release Notes for Arno use of Fuel as deployment tool
Reason for version

Feature additions

<table>
<thead>
<tr>
<th>JIRA REFERENCE</th>
<th>SLOGAN</th>
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<tbody>
<tr>
<td>JIRA: FUEL-4</td>
<td>Baselining Fuel 6.0.1 for OPNFV</td>
</tr>
<tr>
<td>JIRA: FUEL-17</td>
<td>Integration of OpenDaylight</td>
</tr>
</tbody>
</table>

Bug corrections

JIRA TICKETS:

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<thead>
<tr>
<th>JIRA REFERENCE</th>
<th>SLOGAN</th>
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<tbody>
<tr>
<td>JIRA: BGS-57</td>
<td>The OpenDaylight Helium release is not fully functional and the resulting Fuel integration is not able to cope with the deficiencies. It is therefore not recommended to enable this option. A functional integration of ODL version: Lithium is expected to be available in an upcoming service release.</td>
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Deliverables

Software deliverables
Fuel-based installer iso file <arno.2015.2.0.fuel.iso>

Documentation deliverables

- OPNFV Installation instructions for Arno release with the Fuel deployment tool - ver. 1.1.0
- OPNFV Build instructions for Arno release with the Fuel deployment tool - ver. 1.1.0
- OPNFV Release Note for Arno release with the Fuel deployment tool - ver. 1.1.3 (this document)

Known Limitations, Issues and Workarounds

System Limitations

Max number of blades: 1 Fuel master, 3 Controllers, 20 Compute blades
Min number of blades: 1 Fuel master, 1 Controller, 1 Compute blade
Storage: Ceph is the only supported storage configuration.
Max number of networks: 3800 (Needs special switch config.)

Known issues

JIRA TICKETS:

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<th>JIRA REFERENCE</th>
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**JIRA: FUEL-43**  
VMs not accessible through SSH due to VXLAN 50 Byte overhead and lack of proper MTU value setting on virtual ethernet devices

**JIRA: FUEL-44**  
Centos 6.5 option has not been enough verified

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### Workarounds

See JIRA: FUEL-43 <https://jira.opnfv.org/browse/FUEL-43>

### Test Result

Arno SR1 release with the Fuel deployment tool has undergone QA test runs with the following results:  
https://wiki.opnfv.org/arno_sr1_result_page?rev=1443626728

### References

For more information on the OPNFV Arno release, please see [http://wiki.opnfv.org/releases/arno](http://wiki.opnfv.org/releases/arno).

**Authors:** Jonas Bjurel (Ericsson)  
**Version:** 1.1.3

**Documentation tracking**  
Revision: c5721ee373f8bd2669a0a45fce75d9ee95ce4c70  
Build date: Wed Sep 30 21:29:25 UTC 2015