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<title>DevStack - an OpenStack Community Production — DevStack ca7aa30 documentation</title>

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<link rel="stylesheet" href="DevStack%20-%20an%20OpenStack%20Community%20Production%20%E2%80%94%20DevStack%20ca7aa30%20documentation\_files/tweaks.css" type="text/css">

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VERSION: 'ca7aa30',

COLLAPSE\_INDEX: false,

FILE\_SUFFIX: '.html',

HAS\_SOURCE: true

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<link rel="top" title="DevStack ca7aa30 documentation" href="#">

<link rel="next" title="Overview" href="http://docs.openstack.org/developer/devstack/overview.html">

</head>

<body>

<div id="header">

<h1 id="logo"><a href="http://www.openstack.org/">OpenStack</a></h1>

<ul id="navigation">

<li><a href="http://www.openstack.org/" title="Go to the Home page" class="link">Home</a></li>

<li><a href="http://www.openstack.org/projects/" title="Go to the OpenStack Projects page">Projects</a></li>

<li><a href="http://www.openstack.org/user-stories/" title="Go to the User Stories page" class="link">User Stories</a></li>

<li><a href="http://www.openstack.org/community/" title="Go to the Community page" class="link">Community</a></li>

<li><a href="http://www.openstack.org/blog/" title="Go to the OpenStack Blog">Blog</a></li>

<li><a href="http://wiki.openstack.org/" title="Go to the OpenStack Wiki">Wiki</a></li>

<li><a href="http://docs.openstack.org/" title="Go to OpenStack Documentation" class="current">Documentation</a></li>

</ul>

</div>

<div class="document">

<div class="documentwrapper">

<div class="bodywrapper">

<div class="body">

<div class="section" id="devstack-an-openstack-community-production">

<h1>DevStack - an OpenStack Community Production<a class="headerlink" href="#devstack-an-openstack-community-production" title="Permalink to this headline">¶</a></h1>

<div class="toctree-wrapper compound">

<ul>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/overview.html">Overview</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/configuration.html">Configuration</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/plugins.html">Plugins</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/faq.html">FAQ</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/changes.html">Changes</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/contributing.html">Contributing</a></li>

</ul>

</div>

<div class="section" id="quick-start">

<h2>Quick Start<a class="headerlink" href="#quick-start" title="Permalink to this headline">¶</a></h2>

<ol class="arabic">

<li><p class="first">Select a Linux Distribution</p>

<p>Only Ubuntu 14.04 (Trusty), Fedora 20 and CentOS/RHEL 6.5 are

documented here. OpenStack also runs and is packaged on other flavors

of Linux such as OpenSUSE and Debian.</p>

</li>

<li><p class="first">Install Selected OS</p>

<p>In order to correctly install all the dependencies, we assume a

specific minimal version of the supported distributions to make it as

easy as possible. We recommend using a minimal install of Ubuntu or

Fedora server in a VM if this is your first time.</p>

</li>

<li><p class="first">Download DevStack</p>

<div class="highlight-python"><pre>git clone https://git.openstack.org/openstack-dev/devstack</pre>

</div>

<p>The <tt class="docutils literal"><span class="pre">devstack</span></tt> repo contains a script that installs OpenStack and

templates for configuration files</p>

</li>

<li><p class="first">Configure</p>

<p>We recommend at least a <a class="reference internal" href="http://docs.openstack.org/developer/devstack/configuration.html"><em>minimal

configuration</em></a> be set up.</p>

</li>

<li><p class="first">Start the install</p>

<div class="highlight-python"><pre>cd devstack; ./stack.sh</pre>

</div>

<p>It takes a few minutes, we recommend <a class="reference external" href="http://docs.openstack.org/developer/devstack/stack.sh.html">reading the

script</a> while it is building.</p>

</li>

</ol>

</div>

</div>

<div class="section" id="guides">

<h1>Guides<a class="headerlink" href="#guides" title="Permalink to this headline">¶</a></h1>

<p>Walk through various setups used by stackers</p>

<div class="toctree-wrapper compound">

<ul>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/single-vm.html">All-In-One Single VM</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/single-machine.html">All-In-One Single Machine</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/multinode-lab.html">Multi-Node Lab</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/neutron.html">Using DevStack with Neutron Networking</a></li>

</ul>

</div>

<div class="section" id="all-in-one-single-vm">

<h2>All-In-One Single VM<a class="headerlink" href="#all-in-one-single-vm" title="Permalink to this headline">¶</a></h2>

<p>Run <a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/single-vm.html"><em>OpenStack in a VM</em></a>. The VMs launched in your cloud will be slow as

they are running in QEMU (emulation), but it is useful if you don’t have

spare hardware laying around. <a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/single-vm.html"><em>[Read]</em></a></p>

</div>

<div class="section" id="all-in-one-single-machine">

<h2>All-In-One Single Machine<a class="headerlink" href="#all-in-one-single-machine" title="Permalink to this headline">¶</a></h2>

<p>Run <a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/single-machine.html"><em>OpenStack on dedicated hardware</em></a> This can include a

server-class machine or a laptop at home.

<a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/single-machine.html"><em>[Read]</em></a></p>

</div>

<div class="section" id="multi-node-lab">

<h2>Multi-Node Lab<a class="headerlink" href="#multi-node-lab" title="Permalink to this headline">¶</a></h2>

<p>Setup a <a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/multinode-lab.html"><em>multi-node cluster</em></a> with dedicated VLANs for VMs &amp; Management.

<a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/multinode-lab.html"><em>[Read]</em></a></p>

</div>

<div class="section" id="devstack-with-neutron-networking">

<h2>DevStack with Neutron Networking<a class="headerlink" href="#devstack-with-neutron-networking" title="Permalink to this headline">¶</a></h2>

<p>Building a DevStack cluster with <a class="reference internal" href="http://docs.openstack.org/developer/devstack/guides/neutron.html"><em>Neutron Networking</em></a>.

This guide is meant for building lab environments with a dedicated

control node and multiple compute nodes.</p>

</div>

</div>

<div class="section" id="devstack-documentation">

<h1>DevStack Documentation<a class="headerlink" href="#devstack-documentation" title="Permalink to this headline">¶</a></h1>

<div class="section" id="overview">

<h2>Overview<a class="headerlink" href="#overview" title="Permalink to this headline">¶</a></h2>

<p><a class="reference internal" href="http://docs.openstack.org/developer/devstack/overview.html"><em>An overview of DevStack goals and priorities</em></a></p>

</div>

<div class="section" id="configuration">

<h2>Configuration<a class="headerlink" href="#configuration" title="Permalink to this headline">¶</a></h2>

<p><a class="reference internal" href="http://docs.openstack.org/developer/devstack/configuration.html"><em>Configuring and customizing the stack</em></a></p>

</div>

<div class="section" id="plugins">

<h2>Plugins<a class="headerlink" href="#plugins" title="Permalink to this headline">¶</a></h2>

<p><a class="reference internal" href="http://docs.openstack.org/developer/devstack/plugins.html"><em>Extending DevStack with new features</em></a></p>

</div>

<div class="section" id="recent-changes">

<h2>Recent Changes<a class="headerlink" href="#recent-changes" title="Permalink to this headline">¶</a></h2>

<p><a class="reference internal" href="http://docs.openstack.org/developer/devstack/changes.html"><em>An incomplete summary of recent changes</em></a></p>

</div>

<div class="section" id="faq">

<h2>FAQ<a class="headerlink" href="#faq" title="Permalink to this headline">¶</a></h2>

<p><a class="reference internal" href="http://docs.openstack.org/developer/devstack/faq.html"><em>The DevStack FAQ</em></a></p>

</div>

<div class="section" id="contributing">

<h2>Contributing<a class="headerlink" href="#contributing" title="Permalink to this headline">¶</a></h2>

<p><a class="reference internal" href="http://docs.openstack.org/developer/devstack/contributing.html"><em>Pitching in to make DevStack a better place</em></a></p>

</div>

</div>

<div class="section" id="code">

<h1>Code<a class="headerlink" href="#code" title="Permalink to this headline">¶</a></h1>

<p><em>A look at the bits that make it all go</em></p>

<div class="section" id="scripts">

<h2>Scripts<a class="headerlink" href="#scripts" title="Permalink to this headline">¶</a></h2>

<ul class="simple">

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/stack.sh.html">stack.sh</a> - The main script</li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/functions.html">functions</a> - DevStack-specific functions</li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/functions-common.html">functions-common</a> - Functions shared with other projects</li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/apache.html">lib/apache</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/baremetal.html">lib/baremetal</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/ceilometer.html">lib/ceilometer</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/ceph.html">lib/ceph</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/cinder.html">lib/cinder</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/config.html">lib/config</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/database.html">lib/database</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/dib.html">lib/dib</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/dstat.html">lib/dstat</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/glance.html">lib/glance</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/heat.html">lib/heat</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/horizon.html">lib/horizon</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/infra.html">lib/infra</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/ironic.html">lib/ironic</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/keystone.html">lib/keystone</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/ldap.html">lib/ldap</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/neutron.html">lib/neutron</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/nova.html">lib/nova</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/opendaylight.html">lib/opendaylight</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/oslo.html">lib/oslo</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/rpc\_backend.html">lib/rpc\_backend</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/sahara.html">lib/sahara</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/stackforge.html">lib/stackforge</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/swift.html">lib/swift</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/tempest.html">lib/tempest</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/tls.html">lib/tls</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/trove.html">lib/trove</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/lib/zaqar.html">lib/zaqar</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/unstack.sh.html">unstack.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/clean.sh.html">clean.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/run\_tests.sh.html">run\_tests.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/extras.d/40-dib.sh.html">extras.d/40-dib.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/extras.d/50-ironic.sh.html">extras.d/50-ironic.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/extras.d/60-ceph.sh.html">extras.d/60-ceph.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/extras.d/70-sahara.sh.html">extras.d/70-sahara.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/extras.d/70-trove.sh.html">extras.d/70-trove.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/extras.d/70-zaqar.sh.html">extras.d/70-zaqar.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/extras.d/80-opendaylight.sh.html">extras.d/80-opendaylight.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/extras.d/80-tempest.sh.html">extras.d/80-tempest.sh</a></li>

</ul>

</div>

<div class="section" id="id1">

<h2>Configuration<a class="headerlink" href="#id1" title="Permalink to this headline">¶</a></h2>

<div class="toctree-wrapper compound">

<ul>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/local.conf.html">local.conf - User Settings</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/stackrc.html">stackrc - DevStack Settings</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/openrc.html">openrc - User Authentication Settings</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/exerciserc.html">exerciserc - Exercise Settings</a></li>

<li class="toctree-l1"><a class="reference internal" href="http://docs.openstack.org/developer/devstack/eucarc.html">eucarc - EC2 Settings</a></li>

</ul>

</div>

</div>

<div class="section" id="tools">

<h2>Tools<a class="headerlink" href="#tools" title="Permalink to this headline">¶</a></h2>

<ul class="simple">

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/build\_docs.sh.html">tools/build\_docs.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/create-stack-user.sh.html">tools/create-stack-user.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/create\_userrc.sh.html">tools/create\_userrc.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/fixup\_stuff.sh.html">tools/fixup\_stuff.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/info.sh.html">tools/info.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/install\_pip.sh.html">tools/install\_pip.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/install\_prereqs.sh.html">tools/install\_prereqs.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/make\_cert.sh.html">tools/make\_cert.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/tools/upload\_image.sh.html">tools/upload\_image.sh</a></li>

</ul>

</div>

<div class="section" id="samples">

<h2>Samples<a class="headerlink" href="#samples" title="Permalink to this headline">¶</a></h2>

<ul class="simple">

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/samples/local.sh.html">local.sh</a></li>

</ul>

</div>

<div class="section" id="exercises">

<h2>Exercises<a class="headerlink" href="#exercises" title="Permalink to this headline">¶</a></h2>

<ul class="simple">

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercise.sh.html">exercise.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/aggregates.sh.html">exercises/aggregates.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/boot\_from\_volume.sh.html">exercises/boot\_from\_volume.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/bundle.sh.html">exercises/bundle.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/client-args.sh.html">exercises/client-args.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/client-env.sh.html">exercises/client-env.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/euca.sh.html">exercises/euca.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/floating\_ips.sh.html">exercises/floating\_ips.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/horizon.sh.html">exercises/horizon.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/neutron-adv-test.sh.html">exercises/neutron-adv-test.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/sahara.sh.html">exercises/sahara.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/sec\_groups.sh.html">exercises/sec\_groups.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/swift.sh.html">exercises/swift.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/trove.sh.html">exercises/trove.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/volumes.sh.html">exercises/volumes.sh</a></li>

<li><a class="reference external" href="http://docs.openstack.org/developer/devstack/exercises/zaqar.sh.html">exercises/zaqar.sh</a></li>

</ul>

</div>

</div>

</div>

</div>

</div>

<div class="sphinxsidebar">

<div class="sphinxsidebarwrapper">

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</ul>

</li>

<li><a class="reference internal" href="#guides">Guides</a><ul>

<li><a class="reference internal" href="#all-in-one-single-vm">All-In-One Single VM</a></li>

<li><a class="reference internal" href="#all-in-one-single-machine">All-In-One Single Machine</a></li>

<li><a class="reference internal" href="#multi-node-lab">Multi-Node Lab</a></li>

<li><a class="reference internal" href="#devstack-with-neutron-networking">DevStack with Neutron Networking</a></li>

</ul>

</li>

<li><a class="reference internal" href="#devstack-documentation">DevStack Documentation</a><ul>

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<li><a class="reference internal" href="#configuration">Configuration</a></li>

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<li><a class="reference internal" href="#faq">FAQ</a></li>

<li><a class="reference internal" href="#contributing">Contributing</a></li>

</ul>

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<li><a class="reference internal" href="#exercises">Exercises</a></li>

</ul>

</li>

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<h4>Next topic</h4>

<p class="topless"><a href="http://docs.openstack.org/developer/devstack/overview.html" title="next chapter">Overview</a></p>

<h3>This Page</h3>

<ul class="this-page-menu">

<li><a href="http://docs.openstack.org/developer/devstack/\_sources/index.txt" rel="nofollow">Show Source</a></li>

</ul>

<div id="searchbox" style="">

<h3>Quick search</h3>

<form class="search" action="search.html" method="get">

<input name="q" size="18" type="text">

<input value="Go" type="submit">

<input name="check\_keywords" value="yes" type="hidden">

<input name="area" value="default" type="hidden">

</form>

<p class="searchtip" style="font-size: 90%">

Enter search terms or a module, class or function name.

</p>

</div>

<script type="text/javascript">$('#searchbox').show(0);</script>

</div>

</div>

<div class="clearer"></div>

</div>

<div class="related">

<h3>Navigation</h3>

<ul>

<li class="right" style="margin-right: 10px">

<a href="http://docs.openstack.org/developer/devstack/overview.html" title="Overview" accesskey="N">next</a></li>

<li><a href="#">DevStack ca7aa30 documentation</a> »</li>

</ul>

</div>

<div class="footer">

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</div>

</body></html>