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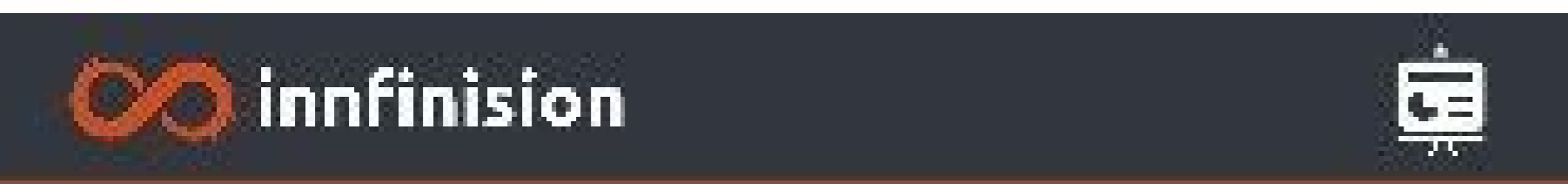
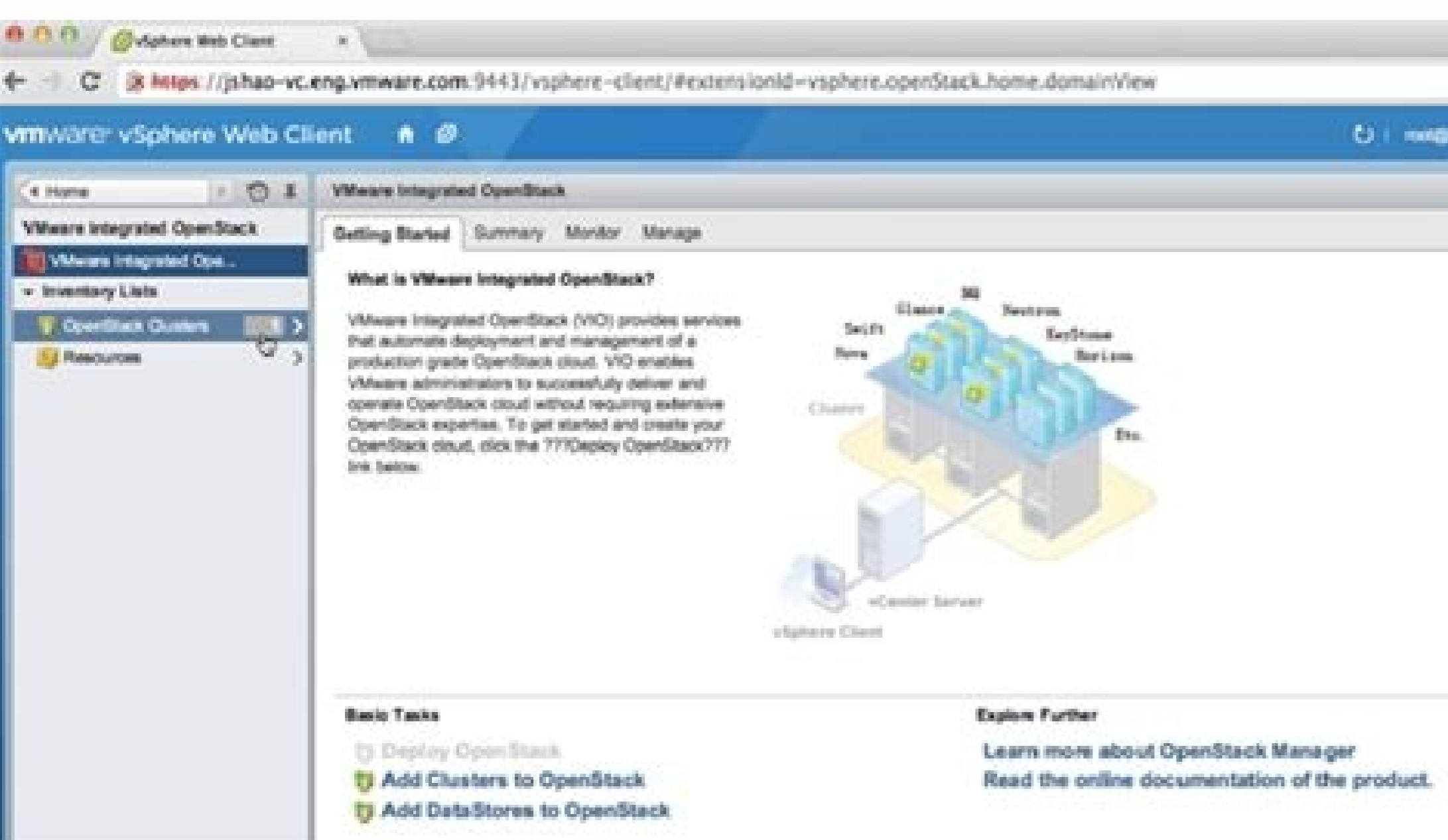
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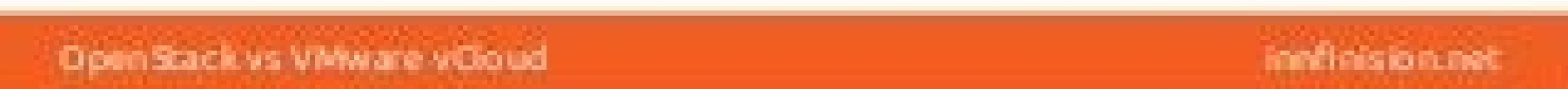
```
bash-3.2$ more provider.tf
#
# Define provider info
#
provider "openstack" {
  user_name = "${var.openstack_user_name}"
  tenant_name = "${var.openstack_tenant_name}"
  password = "${var.openstack_password}"
  auth_url = "${var.openstack_auth_url}"
  insecure = "${var.insecure}"
  domain_id = "default"
}

bash-3.2$
```



The important points for IT managers in organizations and companies to manage infrastructure services are:

- Easy to use
- Management tools & Optional web interfaces
- Easy to find skills and support
- Entry cost and maintenance, The lower the better
- Integration with other platforms
- Other points by you



2021-11-21T10:41:20Z November 21 This is a short guide for developers interested in working on OpenStack and vSphere (ESX, ESXi, and vCenter) drivers. Specifying correct adapter type when uploading and image to glance Currently, there is a limitation that OS boot vmdk disks with an ide adapter type cannot be attached to a virtual SCSI controller, and likewise disks with one of the scsi adapter types (e.g. busLogic, lsiLogic) cannot be attached to the IDE controller. \$ mysql -u root -pnova ... This is normal. On Ubuntu: \$ sudo ip tuntap add dev tapfoo mode tap \$ sudo ifconfig tapfoo \$some_ip up NOTE: assign the interface an ip address that will be appropriate for your environment. Example of execution: \$ cd ~/devstack \$./tools/upload_image.sh \$./tools/upload_image.sh file://home/user/images/debian-2.6.32-i686.vmdk \$./tools/upload_image.sh 'ide.vmdk' Specific metadata can be provided: the expected format of the image filename is -;:vmdk By default, the Nova driver will be using adapter_type 'lsiLogic' and disk_type 'preallocated' To avoid problems with the metadata, it is highly recommended to provide a monolithicSparse or monolithicFlat disk where the descriptor and flat disk are in the same directory. Here's how you set up logging to file with the least amount of fuss. This will happen only the first time a new image UUID is used on a datastore. The descriptor file foo.vmdk can be examined for the same db.adapterType property) List of Reviews in progress vmware+OR+message:vcenter+OR+message:vsphere+OR+message:esx+OR+message:vcdriver+OR+message:datastore.n.z This is valuable, as you can manage your source code manually via git, having many branches, etc. \$ export SCREEN_LOGDIR=./log \$ export LOGDAYS=2 ... wget 'ide.vmdk' Note the vmware.adapterType is set to 'ide' \$ glance image-create --name trend-thin --is-public=True --container-format=bare --disk-format=vmdk --property vmware.adapterType='ide' < "trend-tinyvml1-flat-ide.vmdk" Nova Boot boot a VM using the "" from above \$ nova boot --image --flavor 1 test1 Now you can interact with the image using other nova client commands. You can then interact with the terminal for n-cpu. with run_tests.sh \$ cd /opt/stack/nova \$./run_tests.sh --coverage Additional setup If you are on Ubuntu 12.04 and need to use Python 2.6 (which OpenStack needs for some test scripts) install the old version of python by doing the following: \$ sudo add-apt-repository ppa:frull/deadsnakes \$ sudo apt-get update \$ sudo apt-get install python2.6 python2.6-dev Disabling verbose logging subsystems Add this line to nova.conf to disable the amqp logging (for example) default_log_levels=amqp=WARN,amqpLib=WARN,sqlalchemy=WARN,botocore=WARN,suds=INFO,keystone=INFO,eventlet.wsgi.server=WARN,nova.openstack.common.rpc.amqp=WARN Troubleshooting Some workplaces may have to use special networking and/or proxy settings and that these may change when you are mobile. The latest code (mid-Aug) has a change which uploads the image when you list run devstack, enter this for each new command character characters 0 through 9 switch tabs the 'd' character detaches the session the 'l' character enters 'copy mode' which allows you to navigate the screen trace and 'escape' escapes the copy mode. To set up logging of screen windows set the shell variable SCREEN_LOGDIR to the directory you want the log files to go. SCREEN_LOGDIR=~log LOGDAYS=2 The stack.sh script will automatically rotate the log files for you. When a flat disk (*-flat.vmdk) is provided, the script will attempt to retrieve the descriptor (*.vmdk) associated to find the correct metadata. You may also have to set other proxy settings depending on your company's particular firewall rules. In the Appendix there is information about creating/creating/creating your own images. You system may become sluggish but should not lock up entirely, a system hang can be symptomatic of an improperly configured test environment, or if you always want log files, in your locale add the lines ... VMware vSphere is very stable and very scalable. The scheme of the URL can be http(s) or file. the "" character shows a list of screens which you can navigate with the up and down arrows For example the nova-compute service runs on the n-cpu tab which is usually number 6. In particular, vmdk disks converted from other formats via qemu-img will always be a monolithic sparse vmdk with an IDE adapter type, then nova-compute did not start. Log files will appear with names like screen-\$\$\$SERVICE_NAME-\$\$\$TIMESTAMP.log in that dir and symbolic link screen-\$\$\$SERVICE_NAME.log will link to the latest log file. Logging You may have a situation where you need to monitor devstack's log files. Using TOX for testing See: Important tests to run before submitting for code review are tox -e py26,py27 tox -e pep8 As of this writing the run_tests.sh is the better way to run tests. If you want admin credentials then use admin (\$ source openrc admin admin) Glance Initial Setup Get a VMDK to use as a disk image and upload it to OpenStack using the Glance API. We found the erasure coding, deduplication, and on-demand scaling extremely valuable, which is permissible for development (but not for production). Now that you have a fake ethernet interface, change your locale and re-run ./stack.sh so that you can start nova-network on the new interface. For example \$ nova list +-----+ | ID | Name | Status | Task State | Power State | Networks | +-----+ | 9bb724bf-298d-4a63-a653-dab7f6b9ac7 | test1 | ACTIVE | None | NOSTATE | private=10.0.0.2 | +-----+ Note: if your disk is big, it can take a VERY long time to stream the image from glance to your datastore (e.g. ~7 minutes for a 1 GB thick image). That's it! Testing \$ sudo apt-get install python-dev libmysqlclient-dev python-pip build-essential \$ sudo apt-get install libxslt2-dev libxslt1-dev libpq-dev \$ sudo pip install --no-use-wheel --upgrade Install OpenStack libs \$ cd /opt/stack/nova \$ sudo pip install -r requirements.txt Note: make sure everything in the requires lists gets installed. Also, if you can't get two or more ESX hosts to work with, you can still work with one host in the cluster, but you won't be able to observe VM placement behaviors since there won't be anywhere to place the VMs except for the solitary host. You can access the OpenStack Web GUI (called horizon) by accessing your Ubuntu host on port 80, though currently VNC access via Horizon is broken (see: for a patch to fix this), optional setup If you are using a remote workstation (not running locally on your physical computer) you may have to follow some of the extra steps under Network Troubleshooting installing Devstack (in your new VM once booted, run: sudo apt-get install git clone cd devstack Setup locale for DevStack create a file named 'locale' in your devstack directory with the content shown below (for each item with \$variable name, you will need to enter values specific to your environment, the rest you can just leave as is). For example SCREEN_LOGDIR=/var/log start stack (first time) ./stack.sh This will take a long time the first time, as it pulls down all code and dependencies. If you have problems getting mysql to behave, try purging the OpenStack version of the install and install the database manually. The file to be uploaded to glance is converted-flat.vmdk. Using run_tests.sh for testing \$ cd /opt/stack/nova \$./run_tests.sh ... Note: may fail on first start. Assuming you have already made a directory... Therefore it is important when uploading an image to glance that the correct vmware_adapterType property be set. Conclusion After researching both Nutanix Acropolis and VMware vSphere, we chose VMware vSphere. For information about disk types supported by the VMware driver, see: If a *-flat.vmdk disk is provided and the descriptor cannot be found, 'ide' will be used as the default adapter type and 'preallocated' as the default disk type. MySQL issues If you get stuck with Keystone try: \$ mkdir ~/log Then, if you only want logs this one time, in your bash shell say: ... cd ~/log then 6. The feature our team liked the best was that Nutanix Acropolis AOS is core-centralized on the UI - you don't have multiple interfaces that you have to handle. \$./run_tests.sh nova.tests.virt.vmwaredapi ... VMware vSphere is very good from a recoverability point of view; everything can be stored much easier on a virtual server than a physical one. For example the following command can be used to convert a qcow2 Ubuntu Precise cloud image (downloadable from: qemu-img convert -f raw ~/Downloads/precise-server-cloudimg-amd64-disk1.img -O vmdk precise-server-cloudimg-amd64-disk1.vmdk Converting a sparse vmdk to an ESX-compatible format Due to a bug (fixed with the physical one) in how sparse vmdk disks are handled in the VC driver, sparse disks have to be pre-provisioned or preallocated disks before they can be uploaded to glance to be used by the driver. The file index.html contains the overall coverage report NOTE: tests may run 10, 20, or as long as 65 minutes (depending on your hardware, network, and system) and produce no output until they complete. Download the image 1 GB debian disk image (user/password to login this image after booting is nicira/nicira). \$./stack.sh \$ sudo apt-get purge mysql-server ... If you see: \$ cd /opt/stack/nova && sg /usr/local/bin/nova-compute --config-file /etc/nova/nova.conf || touch /opt/stack/status/stack/n-cpu.failure' sg: group /usr/local/bin/nova-compute --config-file /etc/nova/nova.conf does not exist ... Working the Development Environment If you want to reset your environment, run: ./unstack.sh ./stack.sh This run of stack.sh will be faster (~1 minute) as it resets all database and service state, but does not need to re-download packages or source code. Remote Debugger To use the pycharm remote debugger (any maybe eclipse), make the following changes in your nova code index 0e7ecdc87ed9b..00000000 --a/nova/cmd/_init.py ++ h/nova/cmd/_init.py @@@@ -31,8 -31,4 +31,8 @@ os.environ['EVENTLET_NO_GREENDNS'] = 'y' import eventlet monkey patch(False) +if '-debug-host' and '-debug-port' in sys.argv: + eventlet.monkey patch(all=False,socket=True,time=True,os=False,thread=False) +else: + eventlet.monkey patch(os=False) + diff --combined nova/cmd/compute.py index 61cf434,03a9bd..00000000 --a/nova/cmd/compute.py ++ h/nova/cmd/compute.py @@@@ -33,19 -33,10 +33,19 @@@ from nova.openstack.common import log a from nova import service from nova import utils + cli_opts = [+ cfg.StrOpt('debug-host', + default=None, + help='Connect to debug host'), + cfg.IntOpt('debug-port', + default=None, + help='Connect to debug host port'), +] + CONF = cfg.CONF CONF.import_opt('compute topic', 'nova.compute.rpcapi') CONF.import_opt('use local', 'nova.conductor.api', group='conductor') +CONF.register_cli_opts(cli_opts) def block_db access(): class NoDBObject: @@@ -72,16 -63,6 +72,16 @@@ def main() objects_base.NovaObject.indirection_api = \ conductor.rpcapi.ConductorAPI() if CONF.debug_host: + from pydev import pydevd + print ('Listening on ' + str(CONF.debug_port) + ' for host ' + CONF.debug_host + port=CONF.debug_port, + stdoutToServer=False, + stderrToServer=False) + + server = service.Service.create(binary='nova-compute', topic=CONF.compute_topic, db_allowed=False) Then in pycharm, create a remote debug session with host localhost and port whatever you want. VMware vSphere is very good with memory sharing between VMs and CPU scheduling between VMs. The command-line tools integrate well with service products, so it's easy to manipulate them. vmware-vmtoolsd vmware-vmtoolsdmanager is a utility that comes bundled with VMware Fusion and VMware Workstation. For development purposes, you'll need to have one of this inventory type: inventory with a DRS cluster Note: The cluster should be DRS enabled with "Fully automated" placement turned on. In particular lxsit has some issues that may require attention to properly clear. Note: If you want the logs to be written to disk (not just accessible via screen), use the define SCREEN_LOGDIR to point to path where you want the logs to reside. We suggest your Ubuntu workstation have at least 10 GB disk, with 20+ GB being ideal. Configure a fake networking interface Configure a fake interface so that nova-network does not steal the real IP that you need to access the host remotely. You can rerun this at any time from the devstack directory if you need to re-login in at a later point. If you are in a place that needs special proxy rules, setup apt-get with a proxy. We would like to see more operating systems included, though. Development Environment This Ubuntu workstation can run as a VM itself, but it should have public internet access (ideally direct, but http proxy is workable if you don't need to commit code back to OpenStack if you do, see the troubleshooting page for steps that may help). Once this is done, you can view the VM using vCenter. Hard partitioning is not permitted with VMware vSphere. 2 Cores with 2GB of RAM on an Ubuntu 12.04 machine that is properly configured should take between 10 and 20 minutes to complete. Place the file under your home directory ~/ NOTE: if you are using nested hyper-visors you will need to obtain a 32bit image to use or troubleshoot: how to enable nested ESXi & other Hypervisors in vSphere 5.1 - See more at: Upload your VMDK to glance It is recommended to use the upload_images.sh script provided in the Devstack to upload images to Glance: upload_image.sh has a dependency: The script will introspect the image provided to extract the metadata. Tab to n-cpu's tab. Remove the /usr/bin/nova-rootwrap and it will use the correct one in /usr/local/bin Check if nova-compute is running \$ screen -x Note the tab n-cpu is running in. It expects a URL as unique argument. If you forget it, you can always run "glance image-list" to see all existing images. The solution's integration with other platforms could also be improved, or ... The username/password for the above Debian image is nicira/nicira . It should also have a reasonably high bandwidth link to the vSphere hosts, as it will need to stream images from the Ubuntu workstation to the vSphere host. vSphere Environment and Inventory Set up a vSphere 5.1 (or better) developer's environment. Using Screen Use screen to interact with individual openstack services \$ screen -x stack.see:

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