oVirt on a stick – hands on lab

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Overview

- Concepts and aim
- Installation
- Run my VM
- What can I do with it
- Portals
- APIs
oVirt Live USB concepts

- Live Fedora spin
- Demo/POC purposes
- Don't overload: storage=memory
- Requirements: VT/AMD-v 4/8GB ram
- Stateless
- Boot from USB and let's start playing
Structure

Scalable deployment:

All In One USB deployment:

- Engine
- Hypervisor
- Storage

Your laptop memory
engine-setup

- Ensure the laptop is connected to the guest wireless!
  - **HIDDEN SSID:** netapp

- setup automatically or interactive – should take around 4 minutes

- Watch through the process
  - Basic installation
    - CA,Jboss,Database,default entities,iptables,httpd
  - All in one plugin
    - Local storage,local host
  - oLive plugin
    - Attach iso,copy iso files,create vm
We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.

device ovirtmgnt already exists; can't create bridge with the same name

ovirt installation

ovirt allInOne is going to be installed
Choose which option you would like to install
INFO: all passwords on the live system are: "ovirt!"

Automatic
We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

   #1) Respect the privacy of others.
   #2) Think before you type.
   #3) With great power comes great responsibility.

device ovirtmgmt already exists; can't create bridge with the same name
executing sudo /usr/bin/engine-setup --answer-file=/home/ovirtuser/ovirtLiveFiles/ovirt-answer
Welcome to oVirt Engine setup utility
Stopping ovirt-engine service... ovirtlive.localdomain did not resolve into an IP address
Warning: Weak Password.
Warning: Weak Password.

Installing:
AIO: Validating CPU Compatibility... [ DONE ]
AIO: Adding firewall rules... [ DONE ]
Configuring oVirt-engine... [ DONE ]
Configuring JVM... [ DONE ]
Creating CA... [ DONE ]
Updating ovirt-engine service... [ DONE ]
Setting Database Configuration... [ DONE ]
Setting Database Security... [ DONE ]
Creating Database...
(Please allow oVirt Engine a few moments to start up.....)

**** To access oVirt Engine browse to http://ovirtlive.localdomain:80 ****

Additional information:
* A default ISO share has been created on this host.

If IP based access is used you may want to add an entry in /etc/hosts
* oVirt Engine requires ports 22, 80 and 443 to be opened on the firewall:
22, 80, 443
* an example of the firewall rule:
  * The installation log file is available at: /var/log/ovirt-engine/engine-setup_2013 01 21 16 27.log
* Please use the user "admin" and password specified in order to login into oVirt Engine
* To configure additional users, first configure authentication domains using the 'engine-manage-domains' utility

setup ended successfully

YAD

setup ended successfully

OK
connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site’s identity can’t be verified.

What Should I Do?

If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn’t continue.

Get me out of here!

Technical Details

I Understand the Risks

If you understand what’s going on, you can tell Firefox to start trusting this site’s identification. Even if you trust the site, this error could mean that someone is tampering with your connection.

Don’t add an exception unless you know there’s a good reason why this site doesn’t use trusted identification.

Add Exception...
Welcome to Open Virtualization Manager:
Version 3.2.0-1.20130107.git1a50feafc18

Portals

User Portal
Administrator Portal
Reports Portal
[root@localhost ~]# wget ftp://192.168.122.1/pub/TinyCore-current.iso
    => ‘TinyCore-current.iso’
Connecting to 192.168.122.1:21... connected.
Logging in as anonymous ... Logged in!
===> SYST ... done.  ===> PWD ... done.
===> TYPE I ... done.  ===> CWD (1) /pub ... done.
===> SIZE TinyCore-current.iso ... 12564480
===> PASV ... done.  ===> RETR TinyCore-current.iso ... done.
Length: 12564480 (12M) (unauthoritative)

100%[======================================================================>]
12,564,480 B/s  - -  in 0.09s

2013-01-21 21:24:16 (130 MB/s) - ‘TinyCore-current.iso’ saved [12564480]

[root@localhost ~]# engine-iso-uploader -u admin@internal -i ISO upload TinyCore-current.iso
Please provide the REST API password for the admin@internal oVirt Engine user (CTRL+D to abort):
INFO: TinyCore-current.iso uploaded successfully
[root@localhost ~]#
### Storage Management

<table>
<thead>
<tr>
<th>Domain Name</th>
<th>Domain Type</th>
<th>Storage Type</th>
<th>Format</th>
<th>Cross Data-Center Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO</td>
<td>ISO</td>
<td>NFS</td>
<td>V1</td>
<td>Active</td>
</tr>
<tr>
<td>local_storage</td>
<td>Data (Master)</td>
<td>Local on Host</td>
<td>V3</td>
<td>Active</td>
</tr>
</tbody>
</table>

#### File Management

<table>
<thead>
<tr>
<th>File Name</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>TinyCore-current.iso</td>
<td>CD/DVD</td>
</tr>
</tbody>
</table>
Edit Desktop Virtual Machine

General
Initial Run
Console
Resource Allocation
Boot Options

First Device
Second Device
Attach CD

CD-ROM
Hard Disk
TinyCore-current.iso

Linux Boot Options:
kernel path
initrd path
kernel parameters
local_vm:1 - Press SHIFT+F12 to Release Cursor - Remote Viewer

Boot TinyCore
Boot TinyCore (on slow devices, waitusb=5)
Boot Core (command line only).
Boot Core (command line only on slow devices, waitusb=5)

Press ENTER to boot, TAB to edit, or press F1 for more information.
Boot TinyCore with Embedded X/GUI extensions.
Boot media is removable. Use TAB to edit options for specific needs.

BIOS default device boot in 49 seconds...
Let's download a TinyCore image and upload it to the ISO domain.

Make sure your computer is on the netapp wireless network.

Step 1: become root (or interactive sudo)

- `sudo -i`

Step 2: copy image from lab FTP service

- `wget ftp://10.55.54.75/pub/TinyCore-current.iso`

Step 3: upload image

- `engine-iso-uploader -u admin@internal -i ISO upload TinyCore-current.iso`
Ok, let's run a VM

- Login to admin console (admin/oVirt!)
- Edit your VM and attach the TinyCore ISO
- Run your VM
- Open spice console
- Play around
User portal- let's have a look

- Using admin portal add a user role permission to one of the VMs
- Login to user portal
- Play around basic/advance view
Vm life cycle

- Snapshot (live or not)
- Suspend a VM
- Restore it
- Change cd
- Stop/kill the vm
RESTfull API

http(s)://server:port/api/aaa/xxx-xxx/bbb/bbb/yyy-yyy

1. protocol
2. server details
3. entry point (base resource)
4. collection
5. resource
6. sub-collection
7. sub-resource

• Browse to:
  • https://localhost.localdomain/api
THANK YOU!

http://wiki.ovirt.org/wiki/OVirt_Live
engine-devel@ovirt.org
users@ovirt.org

#ovirt irc.oftc.net