

Installation Process

Open your virtual datacenter

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- About
- Demo environment
- What is NESTED KVM ?
- Using virt-manager for your environment
- Create first installation using Fedora Node
- Create second installation using oVirt Node

About

- Install process the oVirt with Fedora Node
- Install process the oVirt with oVirt Node

Demo environment

- One hardware
- Architecture:
 - Fedora 20 (NESTED KVM)
 - Fedora 19 (oVirt Engine)
 - Fedora 19 Node (Host)
 - oVirt Node (Host)

What is NESTED KVM?

• NESTED support "vmx" on INTEL or "svm" on AMD

root@firelap ~]# grep -m1 vmx /proc/cpuinfo

: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm p lads be syscall nx rdtscp lm constant tsc arch perfmon pebs bts rep good nopl xtopology nonstop tsc aperfmperf eagerfpu pni pclmulgdg dtes64 monitor ds cpl vmx est tm2 ssse3 cx16 xtpr pdcm pcid sse4 1 sse4 2 x2apic popcnt tsc deadline timer aes xsave avx f16c rdrand lahf lm da arat epb xsaveopt pln pts dtherm tpr shadow vnmi flexpriority ept vpid fsqsbase smep erms. root@firelap ~l# cat /etc/default/grub GRUB TIMEOUT=5 GRUB DISTRIBUTOR="\$(sed 's, release .*\$,,q' /etc/system-release)" GRUB DEFAULT=saved GRUB DISABLE SUBMENU=true GRUB_TERMINAL_OUTPUT="console" GRUB CMDLINE LINUX="rd.lvm.lv=fedora firelap/root vconsole.font=latarcyrheb-sun16 rd.lvm.lv=fedora firelap/swap \$([-x /usr/sbin/rhcras hkernel-param] && /usr/sbin/rhcrashkernel-param || :) rhgb quiet kvm-intel.nested=1" GRUB DISABLE RECOVERY="true" root@firelap ~]# grub2-mkconfig -o /boot/grub2/grub.cfg Generating grub.cfg ... ound linux image: /boot/vmlinuz-3.14.2-200.fc20.x86 64 Found initrd image: /boot/initramfs-3.14.2-200.fc20.x86_64.img Found linux image: /boot/vmlinuz-3.13.10-200.fc20.x86 64 ound initrd image: /boot/initramfs-3.13.10-200.fc20.x86 64.img Found linux image: /boot/vmlinuz-3.13.9-200.fc20.x86 64 Found initrd image: /boot/initramfs-3.13.9-200.fc20.x86 64.img ound linux image: /boot/vmlinuz-0-rescue-55dc937ba52c4c6f9c263e25f8038b1d ound initrd image: /boot/initramfs-0-rescue-55dc937ba52c4c6f9c263e25f8038b1d.img root@firelap ~]#||

Reference:

http://www.ovirt.org/Vdsm_Developers#Running_Node_as_guest_-_Nested_KVM

• Install qemu-kvm/libvirt/virt-manager

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▼ localhost (QEMU)						
Fedora Node Running						
develop Shutoff						
oVirt Engine Running		۸				
oVirt Node Running						

- Install Fedora 19 for oVirt Engine
- Install repo oVirt in Fedora 19:

yum localinstall -y http://resources.ovirt.org/releases/ovirt-release.noarch.rpm

- Clone oVirt Engine(vm) for Fedora Node
- Install oVirt Engine:

yum install -y ovirt-engine

• Set oVirt Engine

engine-setup

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	root@ovirt-engine:~	×
	root@ovirt-engine:~ 135x35	
[root@ovi [INF0] [INF0] [INF0] [INF0] [INF0] [INF0]	rt-engine ~]# engine-setup Stage: Initializing Stage: Environment setup Configuration files: ['/etc/ovirt-engine-setup.conf.d/10-packaging.conf'] Log file: /var/log/ovirt-engine/setup/ovirt-engine-setup-20140509082545.log Version: otopi-1.2.0 (otopi-1.2.0-1.fc19) Stage: Environment packages setup Stage: Programs detection Stage: Environment setup Stage: Environment customization	
	== PRODUCT OPTIONS ==	
[INFO] [INFO]	== PACKAGES == Checking for product updates No product updates found == NETWORK CONFIGURATION ==	
[WARNING] [INFO]	Host fully qualified DNS name of this server [ovirt-engine.fedora19.local]: Failed to resolve ovirt-engine.fedora19.local using DNS, it can be resolved only locally Setup can automatically configure the firewall on this system. Note: automatic configuration of the firewall may overwrite current settings. Do you want Setup to configure the firewall? (Yes, No) [Yes]: firewalld will be configured as firewall manager.	
	== DATABASE CONFIGURATION ==	
	Where is the Engine database located? (Local, Remote) [Local]:	

• Set oVirt Engine

engine-setup

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[WARNING] [INFO]	 Host fully qualified DNS name of this server [ovirt-engine.fedora19.local]: Failed to resolve ovirt-engine.fedora19.local using DNS, it can be resolved Setup can automatically configure the firewall on this system. Note: automatic configuration of the firewall may overwrite current setting Do you want Setup to configure the firewall? (Yes, No) [Yes]: firewalld will be configured as firewall manager. 	only locally s.
	== DATABASE CONFIGURATION ==	
ione	Where is the Engine database located? (Local, Remote) [Local]: Setup can configure the local postgresql server automatically for the engin	e to run. This may conflict with existing applicat
utomatic,	Would you like Setup to automatically configure postgresql and create Engin ;, Manual) [Automatic]:	e database, or prefer to perform that manually? (A
	== OVIRT ENGINE CONFIGURATION ==	
[WARNING]	Application mode (Both, Virt, Gluster) [Both]: Default storage type: (NFS, FC, ISCSI, POSIXFS) [NFS]: Engine admin password: Confirm engine admin password: G] Password is weak: it is too simplistic/systematic Use weak password? (Yes, No) [No]: Yes	
	== PKI CONFIGURATION ==	
	Organization name for certificate [fedora19.local]:	
	== APACHE CONFIGURATION ==	
applicati	Setup can configure apache to use SSL using a certificate issued from the i Do you wish Setup to configure that, or prefer to perform that manually? (A Setup can configure the default page of the web server to present the appli ions.	nternal CA. utomatic, Manual) [Automatic]: cation home page. This may conflict with existing
	Do you wish to set the application as the default page of the web server? (Yes. No) [Yes]:

• Set oVirt Engine

engine-setup

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·		root@ovirt-engine:"	×
₽		root@ovirt-engine:~ 135x35	
	Local ISO domain ACL [0.0.0.0/0.0.0.0(r Local ISO domain name [ISO_DOMAIN]:	w)]:	
	== MISC CONFIGURATION ==		
	== END OF CONFIGURATION ==		
[INFO] [WARNING]	Stage: Setup validation Warning: Not enough memory is available Do you want Setup to continue, with amo == CONFIGURATION PREVIEW ==	e on the host. Minimum requirement is 4096MB, and 16384MB is recommended. Dunt of memory less than recommended? (Yes, No) [No]: Yes	
	Engine database name Engine database secured connection Engine database host Engine database host Engine database user name Engine database port NFS setup PKI organization Application mode Firewall manager Update Firewall Configure WebSocket Proxy Host FQDN NFS export ACL NFS mount point Datacenter storage type Configure local Engine database Set application as default page Configure Apache SSL	<pre>: engine : False : localhost : engine : False : 5432 : True : fedora19.local : both : firewalld : True : True : ovirt-engine.fedora19.local : 0.0.0.0/0.0.0.0(rw) : /var/lib/exports/iso : nfs : True : True : True : True</pre>	
	Please confirm installation settings (0	K, Cancel) [OK]: ∐	

- Install repo oVirt in Fedora 19:
- # yum localinstall -y http://resources.ovirt.org/releases/ovirt-release.noarch.rpm
- Add Fedora Node in oVirt Engine

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oVirt	Open Virtualization Manager		
		Bem-vindo à Abrir o Gerenciador de Virtualização. Versão 3.4.0-1.fc19	
		Portais	
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		Portal de Administração	
		Downloads	
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💮 🛷 🕃 🍙 🖹 🕸 🚱	8.100.205/ovirt-engine/webadmin/?locale=pt_BR#login	☆ 🕄 🗔 IP 🛷 H 🍇 🗔 🔳 😑
	Since Series Nome do Usuário Senha Domain Internal Efetuar o Login A versão desse navegador não é a melhor para exibição dos gráficos do aplicativo (consulte a Documentação para detalhes)	

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• Install oVirt Node

oVirt Node Hypervisor 3.0.4 (1.0.201401291204.e16)

Install or Upgrade

Boot (Basic Video) Install (Basic Video) Install or Upgrade with serial console Reinstall Reinstall (Basic Video) Reinstall with serial console Uninstall Boot from local drive

Press [Tab] to edit options



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ovirt Node H	ypervisor 3.0.4-1.0.201401291204.elb
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< <u>I</u> nstall Hy	pervisor 3.0.4-1.0.201401291204.el6 >
Info: No vir	tualization hardware was detected on this system
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	oVirt Node Hypervisor 3.0.4-1.0.201401291204.el6		
	Keyboard Layout Selection		
	Available Keyboard Layouts Swiss German (latin1)		
	J.S. English		
	J.S. International Jkrainian		
	(Hit Enter to select a layout)	(50 / 53)	
	(Duit) (Back) (Continue)		
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	oVirt Node Hypervisor 3.0.4-1.0.7	201401291204.e16		
	Please select the disk to use a	for booting oVirt Node Hyperviso	r	
	Location Device Name Local (V vda	Size 20	(GB)	
			(1 × 1)	
	<pre>< Other device: > Disk Details Device : vda Model : None Bus Type : Local (Virtio) Serial : None Size (GB) : 20 Description: virtio disk < Quit > < Back ></pre>	< Continue >		
	Press esc to quit.			

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L J	EFI∕Bios: oot & RootBackup: 2 partitions at 512MB each)	256 512	
	wap : Config : .ogging :	3915 5 2048	
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	oVirt Node Hypervisor 3.0.4-1.0.201401291204.el6	
	Require a password for the admin user?	
	Password: Confirm Password:	
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	Press esc to quit.	

redoral 9 Virtual Machine File Virtual Machine View Send Key Image: Control of the state of the sta	Activities 🛛 🗤 Virtual Machine Manager 🗸	Fri 09:35	₽₹•12 8
File Virtual Machine View Send Key Image: Content of the Hypervisor 3.8.4-1.8.201401291204.el6 Installing oUirt Node Hypervisor 48 × Starting (1/5) Writing configuration file (Done) Press esc to quit.	í.	fedora19 Virtual Machine	×
OUIT Node Hypervisor 3.8.4-1.8.201401291204.el6 Installing oUIT Node Hypervisor 48 % Starting (1/2) Partitioning and Creating File Systems on '['/dev/vda']' Press esc to guit.	File Virtual Machine View Send Key		
oUirt Mode Hypervisor 3.8.4-1.8.201401291204.e16 Installing oUirt Mode Hypervisor 40 × Starting (1/5) Writing configuration file (Done) (2/5) Partitioning and Creating File Systems on '['/dev/vda']' < Reboot >	💻 💡 ▷ 💷 🖪 🖌 🜉		4 0
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Installing oVirt Node Hypervisor 40 × Starting (1/5) Writing configuration file (Done) (2/5) Partitioning and Creating File Systems on '['/dev/vda']' < Reboot > Press esc to guit.		oVirt Node Hypervisor 3.0.4-1.0.201401291204.el6	
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	oVirt Node Hypervisor release 3.0.4 (1.0.201401291204.el6) Kernel 2.6.32-431.3.1.el6.x86_64 on an x86_64 (tty1)	
	Virtualization hardware is unavailable. (No virtualization hardware was detected on this system)	
	Please login as 'admin' to configure the node localhost login: admin Deseuved	

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OVirt Node Hyp Status Network Security Keyboard Logging Kdump Remote Storage Monitoring Diagnostics OVirt Engine Performance Plugins	ervisor 3.0.4-1.0.201401291204.e16 System Information Status: No virtualization hardware was detected on this system Networking: Unknown Logs: Local Only Running UMs: 0 Press F8 for support menu < View Host Rey > < View CPU Details > < Lock > < Log Off > < Restart > < Power Off >	
Press esc to qu	it.	

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	oVirt Node Hyperv Status Network Security Keyboard Logging Kdump Remote Storage Monitoring Diagnostics oVirt Engine Performance Plugins	<pre>isor 3.0.4-1.0.201401291204.el6 System Identification Hostname: DNS Server 1: DNS Server 2: NTP Server 1: NTP Server 2: Available System NICs Device Status Model eth0 Unconfigured < Ping > < Save > < Reset > </pre>	localhost.localdomain Ø.centos.pool.ntp.org 1.centos.pool.ntp.org MAC Address 52:54:00:82:6e:dd (1 × 1) < Create Bond >	

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	NIC Details: eth0 Driver: virtio_net Link Status: Disconnected	Vendor: MAC Address: 52:54:00:82:6e:dd	
	IPv4 Settings Bootprotocol: () Disabled IP Address: Gateway:	(X) DHCP () Static Netmask:	
	IPv6 Settings Bootprotocol: (X) Disabled () Aut IP Address: Gateway:) () DHCP () Static Prefix Length:	
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	Use Bridge:	[]]	
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OVirt Node Hyper Status Network Security Keyboard Logging Kdump Remote Storage Monitoring Diagnostics OVirt Engine Performance Plugins Press esc to quit	visor 3.0.4-1.0.201401291204.e16 oVirt Engine Configuration Management Server: 192.168.100.205 Management Server Port: 443 Certificate Status: N/A Optional password for adding Node through oVirt Engine UI Note: Setting password will enable SSH daemon Password: Confirm Password: < Save & Register >	



firemanxbr@fedoraproject.org www.ovirt.org

