



Tips and Tricks

RHUG Q1.2017

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1/24/2017

AGENDA

- Red Hat Blogs
- Red Hat Reference Architectures
- Red Hat Container Catalog
- Red Hat Access Labs
- Into the Cockpit!

Red Hat BLOGS

BLOGS

- Cloudforms :: <http://cloudforms.blog.redhat.com>
- Management :: <http://redhat.com/blog/management>
- Middleware :: <http://middlewareblog.redhat.com>
- Mobile :: <http://redhat.com/blog/mobile>
- OpenStack :: <http://redhatstackblog.redhat.com>
- RHEV :: <http://rhelblog.redhat.com/tag/rhev>
- RHEL :: <http://rhelblog.redhat.com>
- Storage :: <http://redhatstorage.redhat.com>

BLOGS

- Security :: <http://securityblog.redhat.com>
- Developers :: <http://developers.redhat.com/blog>
- Vertical Industries :: <http://redhat.com/blog/verticalindustries>
- Shared Space :: <http://sharedspace.redhat.com>
- Open Studio :: <http://openstudio.redhat.com>
- Events :: <http://eventsblog.redhat.com>

Red Hat Reference Architectures

Reference Architecture

- Log in to <https://access.redhat.com> with your RHN credentials

Reference Architecture

- Click on “Product Documentation”
- Way at the bottom!



[My Subscriptions](#)



WHAT'S NEW

[Red Hat OpenShift Container Platform 3.4 is now available](#)

18 Jan 2017, 4:08 PM GMT

[Red Hat Summit 2017: Registration Now Open](#)

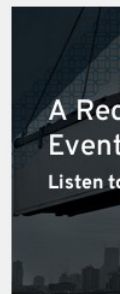
11 Jan 2017, 2:42 PM GMT

[Red Hat Cloudforms 4.2 is now available](#)

04 Jan 2017, 2:49 PM GMT

[View All](#)

CONTAINER ENTERPRIS



QUICK LINKS

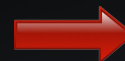
[Downloads](#)

[Subscriptions](#)

[Support Cases](#)

[Customer Service](#)

[Product Documentation](#)



Reference Architecture

- Click on “Knowledgebase”

The screenshot shows the Red Hat Customer Portal interface. At the top, there are navigation links for "SUBSCRIPTIONS", "DOWNLOADS", and "SUPPORT CASES". The main header features the Red Hat logo, "CUSTOMER PORTAL", and navigation tabs for "Products & Services" (which is underlined) and "Tools". Below the header, the breadcrumb "Products & Services > Product Documentation" is visible. A secondary navigation bar contains "SEARCH" and "BROWSE" (which is underlined). The main content area is titled "Product Documentation" and features two large buttons: a blue "Documentation" button and a grey "Knowledgebase" button. A red arrow points from the "Documentation" button to the "Knowledgebase" button. Below this, the text "Product Documentation" is followed by the heading "Select a Product". Under this heading, there are two columns of product links: "RED HAT ENTERPRISE LINUX" with links for "Red Hat Enterprise Linux" and ".NET Core", and "RED HAT CONTAINERS" with links for "OpenShift Container Platform" and "Red Hat Container Development Kit".

SUBSCRIPTIONS DOWNLOADS SUPPORT CASES

redhat. CUSTOMER PORTAL

Products & Services Tools

Products & Services > Product Documentation

SEARCH BROWSE

Product Documentation

Documentation Knowledgebase

Product Documentation

Select a Product

RED HAT ENTERPRISE LINUX

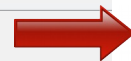
- ▶ Red Hat Enterprise Linux
- ▶ .NET Core

RED HAT CONTAINERS

- ▶ OpenShift Container Platform
- ▶ Red Hat Container Development Kit

Reference Architecture

- Select Reference Architecture
- Refine your search
- “Storage”



Documentation Knowledgebase

Knowledgebase

Refine By

PRODUCT

- Red Hat Enterprise Linux
- Red Hat JBoss Enterprise Application Platform
- Red Hat Satellite or Proxy
- Red Hat Virtualization
- FuseSource

[See More](#)

VERIFICATION STATE

- verified
- unverified
- wip

ARTICLE TYPE

- General
- Tech Brief
- Reference Architecture
- Performance Brief

2012 - Red Hat Storage 2.0 Installation and Configuration
Article – Jan 21, 2015
This document is a guide to installation and configuration and subsequent addition of replication. It describes the process for installing Red Hat Storage 2.0.

2013 - Integrating Red Hat Storage 2.1 with Windows Active Directory
Article – Sep 12, 2014
The purpose of this reference architecture is to provide a solution that utilizes Windows Active Directory for Authentication and Authorization. This architecture is available for Red Hat Storage 2.1.

2012 - Red Hat Storage Server 2.0 On-premise
Article – Jun 26, 2012
Red Hat Storage Server On-premise 2.0 builds upon the Red Hat Storage 2.0 open source storage solutions. It provides the ability to integrate with existing virtual 2012.

2015 - Monitoring Red Hat Gluster Storage
Article – May 26, 2015
This reference architecture demonstrates a solution for monitoring a management server with Red Hat Storage Console. The architecture focuses on monitoring the storage as focusing on the storage.

2015 - Deploying Highly Available Red Hat Gluster Storage
Article – Sep 8, 2016
This reference architecture demonstrates a solution for deploying Red Hat Gluster Storage technology using the Installer. * Deploying CentOS 7.0

Red Hat Container Catalog

Container Catalog

- Log in to <https://access.redhat.com> with your RHN credentials
- Go to <https://access.redhat.com/containers>

- View all containers
- Most popular
- Last updated
- Type
- Categories
- Search



Red Hat Container Catalog > Explore

Red Hat Container Catalog ^{BETA}

selinux + SEARCH

Explore 205 available repositories:

Statistics







 Most Pulled	 Updated Last 30 Days
--	---

Image Type

 Base Images	 Builder	 Beta Images	 Privileged
--	--	--	---

Categories

- Filter on keyword

Red Hat Container Catalog ^{BETA}

Images



3 Results

 Hide Beta images

Repository Name	Description	Last Update	Pulls
rhceph/rhceph-1.3-rhel7 Red Hat, Inc.	Red Hat Ceph Storage 1.3 (selectable daemon single image)	2 months ago	↓ 5k
rhgs3/rhgs-server-rhel7 Red Hat, Inc.	containerized Red Hat Gluster Storage image for serving out local and/or direct attached storage from host	5 days ago	↓ 2k
rhgs3/rhgs-volmanager-rhel7 Red Hat, Inc.	Management Service Instance responsible for managing volumes on containerized Red Hat Gluster Storage Cluster	5 days ago	↓ 960


- View history
- Download
- Tech Details
- Package List
- Documentation

Red Hat Container Catalog ^{BETA}

Red Hat Enterprise Linux 7

by [Red Hat, Inc.](#) | in Product [Red Hat Gluster Storage](#)

`registry.access.redhat.com/rhgs3/rhgs-server-rhel7` 

MOST POPULAR	View all tags	DATE UPDATED	SIZE	IMAGE ADVISORY
 3.1.3-17		5 days ago	N/A	 RHEA-2017:0149

Overview

Red Hat Gluster Storage is software-defined file storage that is scalable, durable, and secure. It offers a rich feature set at a fraction of the cost of traditional, monolithic storage. Since Red Hat Gluster Storage deploys the same bits across on-premise, virtualized, cloud and container environments, moving applications across these boundaries is painless without expansive application rewrites. In addition, Red Hat Gluster Storage offers container-native storage that can be served out of containers running alongside application containers, all managed under a single control plane for greater ease of use and lower cost.

Get this image

Tech Details

Package List

Documentation



Product Page

▸ [Red Hat Gluster Storage](#)









- View tag history
- Get Image errata announcements/details

Red Hat Container Catalog ^{BETA}

Red Hat Enterprise Linux 7 > Tags

by [Red Hat, Inc.](#) | in Product

`registry.access.redhat.com/rhgs3/rhgs-server-rhel7` 

Tag Name	Last Updated	Image Advisory 	Image Digest
 latest	5 days ago	 RHEA-2017:0149	985f86bc
 3.1.3-17	5 days ago	 RHEA-2017:0149	985f86bc
 3.1.3-14	6 months ago	 RHEA-2016:1493	8478f137
 3.1.2-11	a year ago		0b78a944

Red Hat Access Labs

Labs

- Log in to <https://access.redhat.com> with your RHN credentials
- Go to <https://access.redhat.com/labs>

- Think applets
- Wizard format

SUBSCRIPTIONS DOWNLOADS SUPPORT CASES


redhat CUSTOMER PORTAL

Products & Services **Tools** Security Community

Red Hat Access Labs

Developed by Red Hat engineers to help you improve performance, troubleshoot issues, identify security problems, and optimize configuration.


FEATURED APPS



KICKSTART GENERATOR

Create optimal Kickstart configurations for Red Hat Enterprise Linux 5, 6, or 7 that are tailored to meet specific deployment goals.


[Go to App](#) [More info](#)



PRODUCT LIFE CYCLE CHECKER

Query the life cycle of Red Hat products, and better plan your deployment or maintenance.

[Go to App](#) [More info](#)



LEAP SECOND ISSUE DETECTOR

Leap Second Issue Detector. The next leap second will occur on 2016 December 31, 23h 59m 60s UTC.

[Go to App](#) [More info](#)

redhat

- Today – 54!
- Configuration
- Deployment
- Security
- Troubleshoot

ALL LABS

Showing 54 of 54 Labs

All Labs



Configuration



Deployment



Security



Troubleshoot

All products (54)

Filter apps by name or description



ISCSI HELPER

The iSCSI helper tool simplifies configuring an iSCSI target (server) or initiator (client). It handles the different configurations required for RHEL 5.4 and later versions.

[Go to App](#) ▶ [More info](#) ▶



NTP CONFIGURATION

This application steps you through a guide that generates a script for setting up NTP (Network Time Protocol) clients and servers.

[Go to App](#) ▶ [More info](#) ▶



RHV MANAGER HISTORY DATABASE SIZE CALCULATOR

The History Database Size Calculator estimates the minimum and maximum size needed for your RHV database history records.

[Go to App](#) ▶ [More info](#) ▶



SAMBA CONFIGURATION HELPER

Build a basic Samba v4.x configuration to share files and printers.



MULTIPATH HELPER

Create optimal multipath configurations for Red Hat Enterprise Linux 5, 6, or 7 that are tailored to meet specific deployment goals.



SSL3 (POODLE) DETECTOR

The SSL3 Detector allows customers to scan vulnerable systems for CVE-2014-3566 (POODLE).

NTP Lab Example

- Select CLIENT

Labs > NTP Configuration

NTP Configuration


Server/Client

NTP Configuration

Instructions:
Click the Client or Server button.
This application steps you through a guide that generates a script for setting up NTP (Network Time Protocol) clients and servers.

Notes:

- When you enter an external/internal NTP server, this app synchronizes the clients to it.
- If you are configuring an internal NTP server, it will be set up for clients in environments without access to external NTP servers.

 CLIENT

SERVER

NTP Lab Example

- Select Profile

NTP Configuration

- Server/Client
- Profiles**

Profiles

If your configuration does not fall into any of the other categories, choose Basic NTP configuration.

Basic NTP configuration wizard

To configure your virtual machine as an NTP client, choose this option.

Virtual Machine NTP configuration wizard

If you have cluster environments that need synchronized nodes and are sensitive to time changes, choose this option.

Cluster NTP configuration wizard

If you want to configure your virtual machine as a node of the cluster, choose this option.

Virtual Machine on cluster NTP configuration wizard



◀ BACK

NEXT ▶

NTP Lab Example

- Fill in appropriate NTP Server

Labs > NTP Configuration

NTP Configuration

Server/Client
Profiles
Servers

Servers

Enter the addresses for servers running NTP services. Click +Add to enter more server addresses. The client will be synchronized with these servers.


Server:

Need authentication

[+ Add](#)

NTP traffic consists of UDP (User Datagram Protocol) packets on port 123. You must permit these packets through network and host-based firewalls, or NTP will not function. All firewalls must be configured to allow for incoming NTP traffic.

[← BACK](#) [NEXT →](#)



NTP Lab Example

- Enable NTP logging?

Labs > NTP Configuration

NTP Configuration

- Server/Client
- Profiles
- Servers
- Options**

Options

Enable a historical log with ntpd behavior? Yes No

Choose Yes to enable a log with ntpd (Network Time Protocol daemon) behavior. The log:

- Provides continuous, long-term recording of both server and client timekeeping performance
- Captures these performance statistics for later analysis

[← BACK](#) [NEXT →](#)

NTP Lab Example

- GENERATE!

Labs > NTP Configuration

NTP Configuration

- Server/Client
- Profiles
- Servers
- Options
- Summary**

Summary


Virtual Machine on cluster NTP configuration

SERVICES

- ntp-master.mydomain.myFQDN

OPTIONS

- Enable a historical log with ntpd behavior

[← BACK](#)  [GENERATE →](#)

NTP Lab Example


- View, copy/paste
- Download as shell script

NTP Configuration

NTP Configuration

- This script configures only the ntp daemon. Chronyd (the default NTP user space daemon in **Red Hat Enterprise Linux 7**) will now be disabled.
- The NTP Configuration tool creates suggested configuration files, but you may need to make additional changes for your environment.

NTP configuration script for client

 [NTPCONFIG_CLIENT.SH](#)

```
chmod +x ntpconfig_client.sh
./ntpconfig_client.sh
```

```
#!/bin/bash

rhel_version=`cat /etc/redhat-release`
rhel='Red Hat Enterprise Linux'
version7='release 7'
index=`awk -v a="$rhel_version" -v b="$rhel" 'BEGIN{print index(a,b)}'`
if [ $index -ne 0 ]; then
    index=`awk -v a="$rhel_version" -v b="$version7" 'BEGIN{print index(a,b)}'`
    if [ $index -ne 0 ]; then
        echo "Disable chronyd daemon."
        systemctl stop chronyd
        systemctl disable chronyd
        echo "Install ntpd daemon."
        yum install ntp -y
        systemctl enable ntpd
        echo "Start ntpd daemon."
        systemctl start ntpd
    else

```

[← BACK](#)

[START OVER](#)

Into the Cockpit!

Cockpit

- Web enabled server interface
- 2 Main components
 - Web Daemon (service) : cockpit-ws
 - “Agent” : cockpit-bridge

- Installation via RPM

```
# yum -y install cockpit
```

- Installation via container

```
# atomic run registry.access.redhat.com/rhel7/cockpit-ws
```

- Log in via browser
- Server URL `https://myserver.FQDN:9090`

RED HAT ENTERPRISE LINUX SERVER

User name

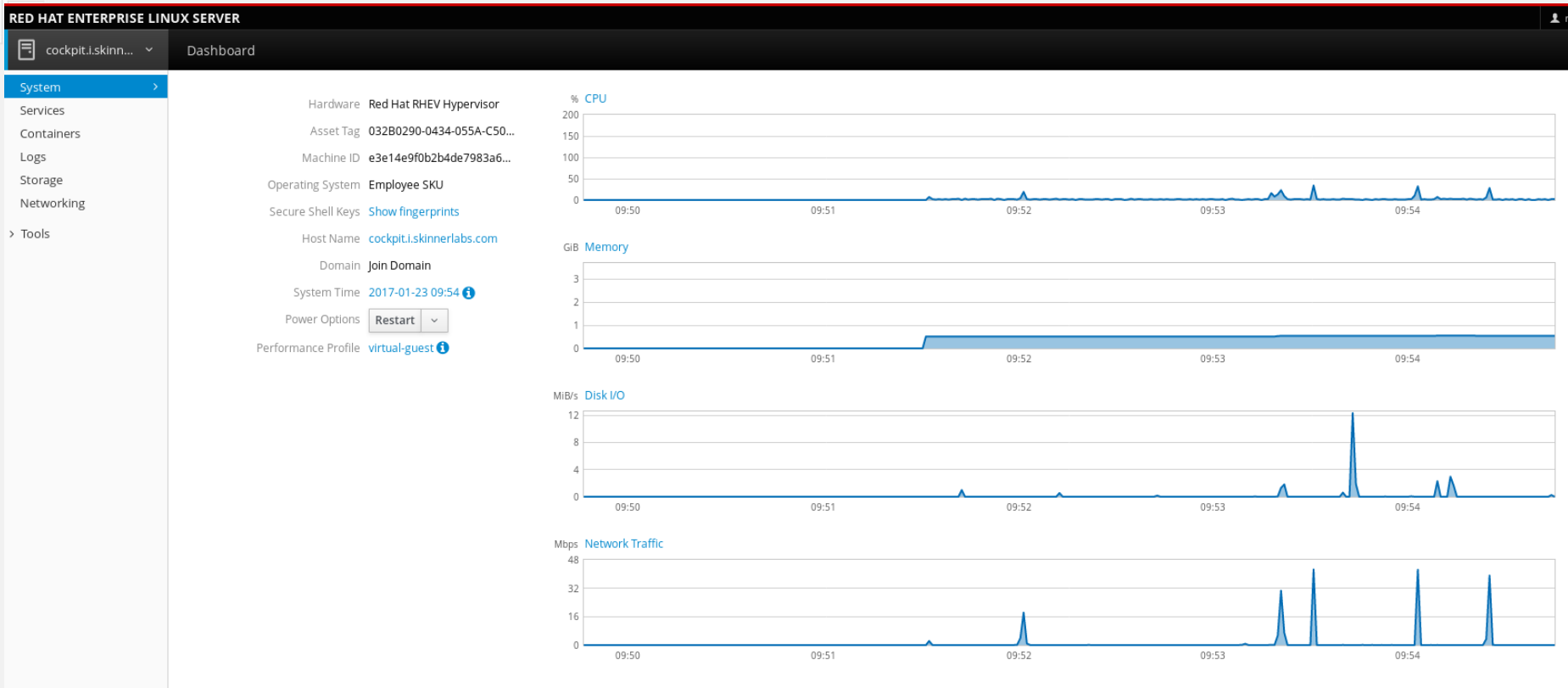
Password

▶ Other Options

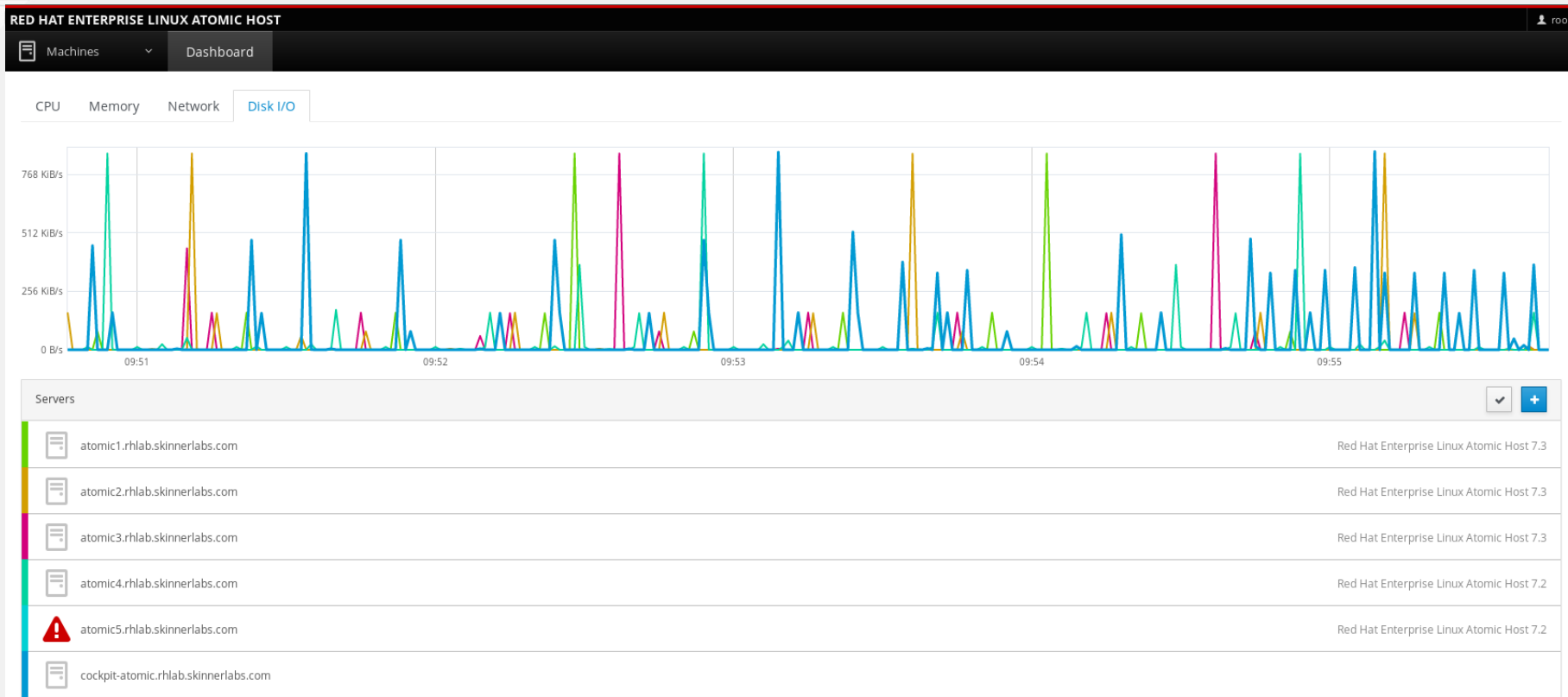
Server: `cockpit.i.skinnerlabs.com`
Log in with your server user account.

Log In

• Main Page



• Dashboard



• System

RED HAT ENTERPRISE LINUX ATOMIC HOST

atomic1.rhlab.... Dashboard

System

- Services
- Containers
- Logs
- Networking
- Tools
 - SELinux Troubleshoot
 - Subscriptions
 - Accounts
 - Diagnostic reports
 - Terminal
 - Software Updates

Hardware Red Hat RHEV Hypervisor

Asset Tag 03DE0294-0480-056B-360...

Machine ID 547e12216f2941dfa0416a...

Operating System Red Hat Enterprise Linux Atomic Host 7.3

Secure Shell Keys [Show fingerprints](#)

Version 7.3.2

Host Name atomic1.rhlab.skinnerlabs....

Domain [Join Domain](#)

System Time 2017-01-23 09:56 ⓘ

Power Options ▾

Performance Profile [atomic-guest](#) ⓘ

% CPU

GiB Memory

KiB/s Disk I/O

Kbps Network Traffic

• Services

RED HAT ENTERPRISE LINUX ATOMIC HOST

atomic1.rhlab... Dashboard

System
Services
Containers
Logs
Networking
Tools
SELinux Troubleshoot
Subscriptions
Accounts
Diagnostic reports
Terminal
Software Updates

Targets System Services Sockets Timers Paths

Enabled

Description	Id	State
Multi-User System	multi-user.target	active
NFS client services	nfs-client.target	active
Remote File Systems	remote-fs.target	active

Disabled

Description	Id	State
Halt	halt.target	inactive (dead)
Reboot via kexec	kexec.target	inactive (dead)
Containers	machines.target	inactive (dead)
Power-Off	poweroff.target	inactive (dead)
Reboot	reboot.target	inactive (dead)
Rescue Mode	rescue.target	inactive (dead)

Static

Description	Id	State
Basic System	basic.target	active
Bluetooth	bluetooth.target	inactive (dead)
Cloud-config availability	cloud-config.target	inactive (dead)
Encrypted Volumes (Pre)	cryptsetup-pre.target	inactive (dead)
Encrypted Volumes	cryptsetup.target	active

• Containers


RED HAT ENTERPRISE LINUX ATOMIC HOST root

atomic1.rhlab... ▾ Dashboard

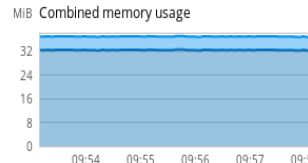
System
Services
Containers ▸
Logs
Networking
Tools
SELinux Troubleshoot
Subscriptions
Accounts
Diagnostic reports
Terminal
Software Updates

Images and running containers ▾

% Combined CPU usage



MIB Combined memory usage



90.7 GiB Free 0.9 / 91.6 GiB
[Configure storage...](#)

Containers

Name	Image	Command	CPU	Memory	State
tender_wozniak	7174c4aabc6c	/bin/bash	0%	4.5 MIB	running
sleepy_feynman	d5aed622c238	/bin/sh -c "/bin/bash /usr/local/bin/start-container-agent.sh"	1%	32.5 MIB	running

Images

[Get new image](#)

Name	Created	Size
registry.access.redhat.com/rhel7/sadc:latest	8 days ago	195.7 MIB
registry.access.redhat.com/rhev4/rhev-guest-agent:latest	6 months ago	420.1 MIB

• Logs

RED HAT ENTERPRISE LINUX ATOMIC HOST

atomic1.rhlab... Dashboard root

System
Services
Containers
Logs
Networking
Tools
SELinux Troubleshoot
Subscriptions
Accounts
Diagnostic reports
Terminal
Software Updates

January 22, 2017
Errors Warnings Notices All

January 22, 2017
▲ 18:04 Failed to open directory /tmp: Too many levels of symbolic links systemd-tmpfiles

January 21, 2017
▲ 18:04 Failed to open directory /tmp: Too many levels of symbolic links systemd-tmpfiles

January 20, 2017

▲ 21:20 Scope libcontainer-15067-systemd-test-default-dependencies.scope has no PIDs. Refusing.	systemd	2
▲ 21:20 Scope libcontainer-15015-systemd-test-default-dependencies.scope has no PIDs. Refusing.	systemd	2
▲ 21:17 pam_lastlog(sshd:session): unable to open /var/log/lastlog: No such file or directory	sshd	
▲ 21:15 Scope libcontainer-14360-systemd-test-default-dependencies.scope has no PIDs. Refusing.	systemd	2
▲ 21:15 Scope libcontainer-14354-systemd-test-default-dependencies.scope has no PIDs. Refusing.	systemd	2
▲ 21:15 container_linux.go:247: starting container process caused "process_linux.go:359: container init caused \"rootfs_linux.go:54: mounting \"\"/etc/sysconfig/sysstat.ioconf\\\"...	dockerd-current	
▲ 21:15 Scope libcontainer-14333-systemd-test-default-dependencies.scope has no PIDs. Refusing.	systemd	2
▲ 21:10 Dummy-2::INFO::2017-01-20 22:10:27,028::OVirtAgentLogic::117::root::API Version updated from 0 to 2	dockerd-current	
▲ 21:10 Dummy-2::INFO::2017-01-20 22:10:27,028::OVirtAgentLogic::307::root::Received an external command: api-version...	dockerd-current	
▲ 21:10 Dummy-2::INFO::2017-01-20 22:10:18,103::OVirtAgentLogic::307::root::Received an external command: lock-screen...	dockerd-current	
▲ 21:10 Dummy-2::INFO::2017-01-20 22:10:17,843::OVirtAgentLogic::307::root::Received an external command: refresh...	dockerd-current	
▲ 21:10 MainThread::INFO::2017-01-20 22:10:17,559::ovirt-guest-agent::59::root::Starting oVirt guest agent	dockerd-current	
▲ 21:10 Scope libcontainer-14067-systemd-test-default-dependencies.scope has no PIDs. Refusing.	systemd	2
▲ 21:10 Scope libcontainer-14046-systemd-test-default-dependencies.scope has no PIDs. Refusing.	systemd	2
▲ 18:03 Failed to open directory /tmp: Too many levels of symbolic links	systemd-tmpfiles	
▲ 17:48 pam_lastlog(sshd:session): unable to open /var/log/lastlog: No such file or directory	sshd	
▲ 17:47 Error: Driver 'pcspkr' is already registered, aborting...	kernel	
▲ 17:47 can't open iscsid.safe_logout configuration file /etc/iscsi/iscsid.conf	iscsid	
▲ 17:47 can't open InitiatorAlias configuration file /etc/iscsi/initiatorname.iscsi	iscsid	
▲ 17:47 Warning: InitiatorName file /etc/iscsi/initiatorname.iscsi does not exist or does not contain a properly formatted InitiatorName. If using software iscsi (iscsi_tcp or ib_...	iscsid	
▲ 17:47 can't open InitiatorName configuration file /etc/iscsi/initiatorname.iscsi	iscsid	
▲ 17:47 cannot save any registration	rpcbind	
▲ 17:47 cannot open file = /run/rpcbind/portmap.xdr for writing	rpcbind	
▲ 17:47 cannot save any registration	rpcbind	
▲ 17:47 cannot open file = /run/rpcbind/rpcbind.xdr for writing	rpcbind	

• Networking

RED HAT ENTERPRISE LINUX ATOMIC HOST

atomic1.rhlab... Dashboard

- System
- Services
- Containers
- Logs
- Networking**
- Tools
 - SELinux Troubleshoot
 - Subscriptions
 - Accounts
 - Diagnostic reports
 - Terminal
 - Software Updates

Mbps Sending

Mbps Receiving

Interfaces				Add Bond	Add Bridge	Add VLAN
Name	IP Address	Sending	Receiving			
docker0	172.17.0.1/16	0 bps	0 bps			
eth0	192.168.40.105/24	21.0 Kbps	5.7 Kbps			

Unmanaged Interfaces			
Name	IP Address	Sending	Receiving
veth5362eb0			

Networking Logs

January 20, 2017

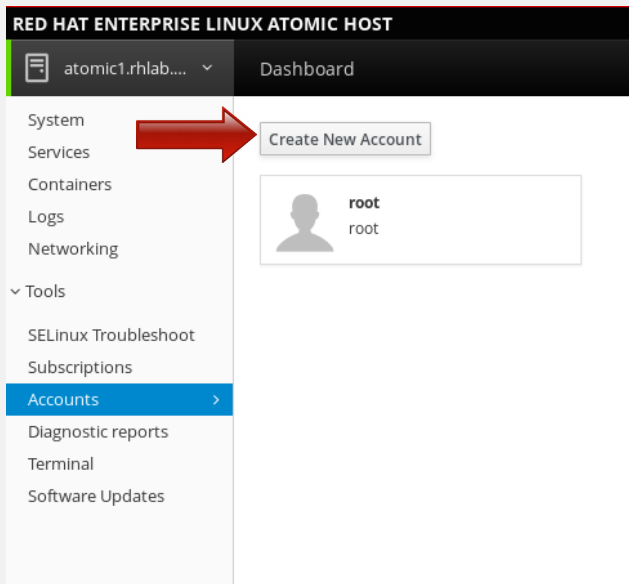
```
21:20 <info> [1484968811.6257] device (docker0): link connected NetworkManager
21:20 <info> [1484968811.5992] device (veth5362eb0): link connected NetworkManager
21:20 <info> [1484968811.5989] device (vethdf4e023): driver 'veth' does not support carrier detection. NetworkManager
21:20 <info> [1484968811.4398] manager: (veth5362eb0): new Veth device (/org/freedesktop/NetworkManager/Devices/4) NetworkManager
21:20 <info> [1484968811.4384] manager: (vethdf4e023): new Veth device (/org/freedesktop/NetworkManager/Devices/3) NetworkManager
17:48 <info> [1484956090.4099] device (docker0): Activation: successful, device activated. NetworkManager
17:48 <info> [1484956090.3925] device (docker0): state change: secondaries -> activated (reason 'none') [90 100 0] NetworkManager
17:48 <info> [1484956090.3924] device (docker0): state change: ip-check -> secondaries (reason 'none') [80 80 0] NetworkManager
17:48 <info> [1484956090.3920] device (docker0): state change: ip-config -> ip-check (reason 'none') [70 80 0] NetworkManager
17:48 <info> [1484956090.3872] device (docker0): state change: config -> ip-config (reason 'none') [50 70 0] NetworkManager
```

- Subscriptions

The screenshot shows the 'Subscriptions' page in the Red Hat Enterprise Linux Atomic Host web console. The page title is 'RED HAT ENTERPRISE LINUX ATOMIC HOST' and the breadcrumb is 'Dashboard'. The left sidebar contains navigation options: System, Services, Containers, Logs, Networking, Tools (expanded), SELinux Troubleshoot, Subscriptions (selected), Accounts, Diagnostic reports, Terminal, and Software Updates. The main content area is titled 'Subscriptions' and shows the status as 'Current' with an 'Unregister' button. Below this, there are two sections for 'Installed products':

- Red Hat Enterprise Linux Atomic Host**
 - Details
 - Product name: Red Hat Enterprise Linux Atomic Host
 - Product ID: 271
 - Version: 7
 - Architecture: x86_64
 - Status: Subscribed
 - Starts: 05/04/16
 - Ends: 05/04/17
- Red Hat Enterprise Linux Server**
 - Details
 - Product name: Red Hat Enterprise Linux Server
 - Product ID: 69
 - Version: 7.1
 - Architecture: x86_64
 - Status: Subscribed
 - Starts: 05/04/16
 - Ends: 05/04/17

- Accounts



Create New Account

Full Name

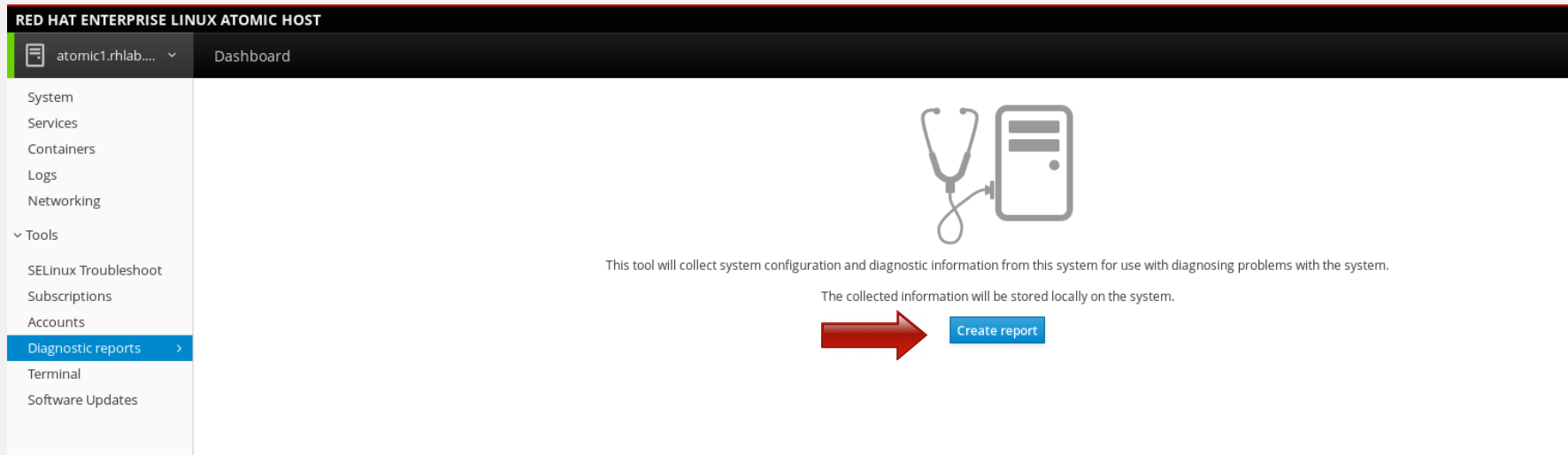
User Name

Password

Confirm

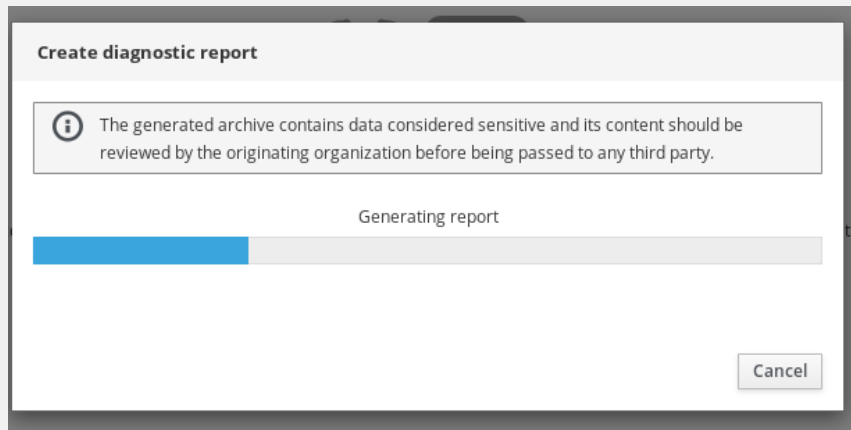
Access Lock Account

• Diagnostics

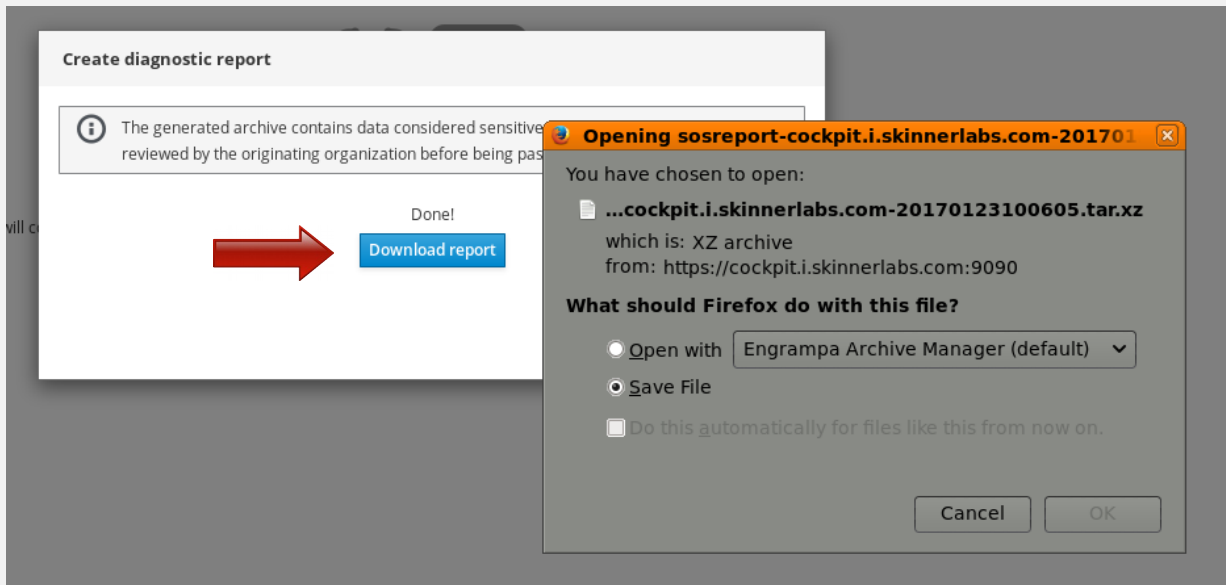


The screenshot shows the Red Hat Enterprise Linux Atomic Host diagnostic tool interface. The top header is "RED HAT ENTERPRISE LINUX ATOMIC HOST". Below it, a navigation bar shows "atomic1.rhlab...." and "Dashboard". A left sidebar contains a menu with items: System, Services, Containers, Logs, Networking, Tools (expanded), SELinux Troubleshoot, Subscriptions, Accounts, Diagnostic reports (highlighted with a blue bar and a right-pointing arrow), Terminal, and Software Updates. The main content area features a stethoscope icon next to a server rack icon. Below the icons, the text reads: "This tool will collect system configuration and diagnostic information from this system for use with diagnosing problems with the system." and "The collected information will be stored locally on the system." At the bottom of the main area, a large red arrow points to a blue button labeled "Create report".

- Diagnostics



- Diagnostics



- Terminal

The screenshot displays the Red Hat Enterprise Linux Atomic Host dashboard. The top header reads "RED HAT ENTERPRISE LINUX ATOMIC HOST". Below the header, the breadcrumb "atomic1.rhlab...." and "Dashboard" are visible. A left-hand navigation menu lists various system components: System, Services, Containers, Logs, Networking, Tools (expanded), SELinux Troubleshoot, Subscriptions, Accounts, Diagnostic reports, Terminal (highlighted with a blue bar and a right-pointing arrow), and Software Updates. The main content area features a "Terminal" window with a "Reset" button in the top right corner. The terminal output shows the command "hostname" being executed, resulting in the output "atomic1.rhlab.skinnerlabs.com".

```
bash-4.2# hostname
atomic1.rhlab.skinnerlabs.com
bash-4.2#
```

- Software Updates

The screenshot shows the Red Hat Enterprise Linux Atomic Host dashboard. The top navigation bar includes the title "RED HAT ENTERPRISE LINUX ATOMIC HOST" and a "Dashboard" link. A left sidebar contains a menu with items: System, Services, Containers, Logs, Networking, Tools, SELinux Troubleshoot, Subscriptions, Accounts, Diagnostic reports, Terminal, and Software Updates (highlighted). The main content area is titled "Operating System Updates" and features a "Check for Updates" button. Below this, a card displays "rhel-atomic-host 7.3.2" with a green checkmark icon. The card includes tabs for "Tree", "Packages", and "Signature", and a "Running" status indicator. A table below the card lists details for the operating system:

Property	Value
Operating Syst...	rhel-atomic-host
Version	7.3.2
Released	7 days ago



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