# 配置NFS存储后端

08% 2015:24% 0ASHA: %20 ca6e2 fb1 fb74150680bff605a241947 fc88 ddd51% 0AS ource: %20 https://git.openstack.org/cgit/openstack/cinder/tree/doc/source/admin/blockstorage-nfs-backend.rst% 0AURL: https://docs.openstack.org/cinder/queens/admin/blockstorage-nfs-backend.html & field.tags=doc)

更新日期: 2018-03-08 15:24

本节介绍如何配置OpenStack Block Storage以使用NFS存储。您必须能够从承载cinder卷服务的服务器访问NFS共享。

#### ❷ 注意

该cinder卷服务被命名为openstack-cinder-volume 以下分布:

- CentOS的
- Fedora的
- openSUSE的
- 红帽企业Linux
- SUSE Linux Enterprise

在Ubuntu和Debian发行版中, cinder卷服务被命名cinder-volume。

## 配置块存储以使用NFS存储后端

- 1. 登录root到托管cinder卷服务的系统。
- 2. 创建一个nfsshares在该/etc/cinder/目录中命名的文本文件。
- 3. /etc/cinder/nfsshares为cinder卷服务应用于后端存储的每个NFS共享添加一个条目。每个条目应该是一个单独的行,并应使用以下格式:

主持人: SHARE

# 哪里:

- HOST是NFS服务器的IP地址或主机名。
- 。 SHARE是现有的可访问NFS共享的绝对路径。
- 4. 设置/etc/cinder/nfsshares为由root用户和cinder组拥有:

# CHOWN根: 煤渣的/ etc /煤渣/ nfsshares

5. 设置/etc/cinder/nfsshares为可由Cinder组的成员读取:

#搭配chmod 0640的/ etc /煤渣/ nfsshares

6. 配置cinder卷服务以使用/etc/cinder/nfsshares先前创建的 文件。为此,请打开/etc/cinder/cinder.conf配置文件并将nfs\_shares\_config配置键设置为/etc/cinder/nfsshares。

在包含的分发版上openstack-config,您可以通过运行以下命令来配置它:

```
# openstack-config --set /etc/cinder/cinder.conf \
DEFAULT nfs_shares_config / etc / cinder / nfsshares
```

以下分布包括openstack-config:

- CentOS的
- Fedora的
- o openSUSE的
- 红帽企业Linux
- SUSE Linux Enterprise
- 7. (可选)在nfs\_mount\_options配置密钥中提供环境中所需的任何其他NFS安装选项/etc/cinder/cinder.conf。如果您的NFS共享不需要任何额外的挂载选项(或者如果您不确定),请跳过此步骤。

在包含的分发版上openstack-config,您可以通过运行以下命令来配置它:

```
# openstack-config --set /etc/cinder/cinder.conf \
DEFAULT nfs_mount_options选项
```

Replace OPTIONS with the mount options to be used when accessing NFS shares. See the manual page for NFS for more information on available mount options (man nfs).

8. Configure the **cinder** volume service to use the correct volume driver, namely **cinder.volume.drivers.nfs.NfsDriver**. To do so, open the **/etc/cinder/cinder.conf** configuration file and set the volume\_driver configuration key to **cinder.volume.drivers.nfs.NfsDriver**.

On distributions that include <code>openstack-config</code>, you can configure this by running the following command instead:

```
# openstack-config --set /etc/cinder/cinder.conf \
DEFAULT volume_driver cinder.volume.drivers.nfs.NfsDriver
```

9. You can now restart the service to apply the configuration.

## Note

The nfs\_sparsed\_volumes configuration key determines whether volumes are created as sparse files and grown as needed or fully allocated up front. The default and recommended value is true, which ensures volumes are initially created as sparse files.

Setting nfs\_sparsed\_volumes to false will result in volumes being fully allocated at the time of creation. This leads to increased delays in volume creation.

However, should you choose to set nfs\_sparsed\_volumes to false, you can do so directly in /etc/cinder/cinder.conf.

On distributions that include openstack-config, you can configure this by running the following command instead:

# openstack-config --set /etc/cinder/cinder.conf \
DEFAULT nfs\_sparsed\_volumes false

# **A** Warning

如果客户端主机启用了SELinux,则**virt\_use\_nfs** 如果主机需要访问实例上的NFS卷,则还应启用布尔值。要启用此布尔值,请以**roo**t用户身份运行以下命令:

# setsebool -P virt\_use\_nfs上

此命令还使布尔值在重新启动时保持不变。在需要访问实例上的NFS卷的所有客户端主机上运行此命令。这包括所有计算节点。

.08%2015:24%0ASHA:%20ca6e2fb1fb74150680bff605a241947fc88ddd51%0ASource:%20https://git.openstack.org/cgit/openstack/cinder/tree/doc/source/admin/blockstora nfs-backend.rst%0AURL: https://docs.openstack.org/cinder/queens/admin/blockstorage-nfs-backend.html&field.tags=doc)

更新日期: 2018-03-08 15:24



(https://creativecommons.org/licenses/by/3.0/)

除另有说明外,本文档受 <u>Creative Commons Attribution 3.0许可的授权 (https://creativecommons.org/licenses/by/3.0/)</u>。 查看所有 <u>OpenStack法律文件 (https://www.openstack.org/legal</u>)。

★ 发现错误?报告错误(HTTPS://BUGS.LAUNCHPAD.NET/CINDER/+FILEBUG?

08%2015:24%0ASHA:%20CA6E2FB1FB74150680BFF605A241947FC88DDD51%0ASOURCE:%20HTTPS://GIT.OPENSTACK.ORG/CGIT/OPENSTACK/CINDER/TREE/DOC/SOURCE/ADMIN/BLOCKSTORAGE-NFS-BACKEND.RST%0AURL: HTTPS://DOCS.OPENSTACK.ORG/CINDER/QUEENS/ADMIN/BLOCKSTORAGE-NFS-BACKEND.HTML&FIELD.TAGS=DOC)

② 问题吗?(HTTP://ASK.OPENSTACK.ORG)



OpenStack文档

煤渣12.0.1

(../index.html)

安装指南 (../install/index.html) 升级过程 (../upgrade.html)

煤渣管理 (index.html)

增加块存储API服务吞吐量 (blockstorage-api-throughput.html)

管理卷 (blockstorage-manage-volumes.html)

排查安装问题 (blockstorage-troubleshoot.html)

通用滤波器 (generalized\_filters.html)

备份块存储服务磁盘 (blockstorage-backup-disks.html)

从卷引导 (blockstorage-boot-from-volume.html)

一致性组 (blockstorage-consistency-groups.html)

为调度程序配置和使用驱动程序过滤器和称重 (blockstorage-driver-filter-weighing.html)

获取功能 (blockstorage-get-capabilities.html)

通用卷组 (blockstorage-groups.html)

图像卷缓存 (blockstorage-image-volume-cache.html)

使用LIO iSCSI支持 (blockstorage-lio-iscsi-support.html)

配置多个存储后端 (blockstorage-multi-backend.html)

配置NFS存储后端

精简配置中的超额预订 (blockstorage-over-subscription.html)

速率限制卷拷贝带宽 (blockstorage-ratelimit-volume-copy-bandwidth.html)

音量支持的图像 (blockstorage-volume-backed-image.html)

导出和导入备份元数据 (blockstorage-volume-backups-export-import.html)

备份和恢复卷和快照 (blockstorage-volume-backups.html)

迁移卷 (blockstorage-volume-migration.html)

卷多重连接:启用将卷连接到多个服务器 (blockstorage-volume-multiattach.html)

配置和使用体积号码秤 (blockstorage-volume-number-weigher.html)

报告服务列表中的后端状态 (blockstorage-report-backend-state.html)

Cinder服务配置 (../configuration/index.html)

示例配置文件 (../sample\_config.html)

示例策略文件 (../sample\_policy.html)

可用的驱动 (../drivers.html)

命令行界面参考 (../cli/index.html)

cinder-manage用法 (../man/cinder-manage.html)

贡献者指南 (../contributor/index.html)

词汇表 (../common/glossary.html)

# OpenStack的

- 项目 (http://openstack.org/projects/)
- OpenStack安全 (http://openstack.org/projects/openstack-security/)
- 常见问题 (http://openstack.org/projects/openstack-faq/)
- 博客 (http://openstack.org/blog/)
- 新闻 (http://openstack.org/news/)

## 社区

- 用户组 (http://openstack.org/community/)
- 活动 (http://openstack.org/community/events/)
- 工作 (http://openstack.org/community/jobs/)
- 公司 (http://openstack.org/foundation/companies/)
- 有助于 (http://docs.openstack.org/infra/manual/developers.html)

## 文档

- OpenStack手册 (http://docs.openstack.org)
- 入门 (http://openstack.org/software/start/)
- API文档 (http://developer.openstack.org)
- 维基 (https://wiki.openstack.org)

# 品牌与法律

- 标志和指南 (http://openstack.org/brand/)
- 商标政策 (http://openstack.org/brand/openstack-trademark-policy/)
- 隐私政策 (http://openstack.org/privacy/)
- OpenStack CLA (https://wiki.openstack.org/wiki/How\_To\_Contribute#Contributor\_License\_Agreement)

## 保持联系

 $(https://t \textit{(hittliges://oth/top/sex/set/hatchists/likes/longsonstande):parny//sepe/fighearls/tackFoundation)\\$ 

OpenStack项目是在<u>Apache 2.0许可 (http://www.apache.org/licenses/LICENSE-2.0)</u>下提供的。Openstack.org由 <u>Rackspace云计算提供支持 (http://rackspace.com)</u>。