管理卷

« (blockstorage-api-throughput.html) » (blockstorage-boot-from-volume.html) (https://bugs.launchpad.net/cinder/+filebug?field.title=Manage%20volumes%20in%20Cinder&field.comment=%0A%0A%0AThis bug tracker is for errors with the documentation, use the following as a template and remove or add fields as you see fit. Convert [ ] into [x] to check boxes:%0A%0A- [ ] This doc is inaccurate in this way: _____%0A- [ ] This is a doc addition request.%0A- [ ] I have a fix to the document that I can paste below including example: input and output. %0A%0AIf you have a troubleshooting or support issue, use the following resources:%0A%0A - Ask OpenStack: http://ask.openstack.org%0A - The mailing list: http://lists.openstack.org%0A - IRC: 'openstack' channel on Freenode%0A%0A----------%0ARelease:%2012.0.1.dev9%20on%202018-03-08%2015:24%0ASHA:%20ca6e2fb1fb74150680bff605a241947fc88ddd51%0ASource:%20https://git.openstack.org/cgit/openstack/cinder/tree/doc/source/admin/blockstorage-manage-volumes.rst%0AURL: https://docs.openstack.org/cinder/queens/admin/blockstorage-manage-volumes.html&field.tags=doc)

更新日期：2018-03-08 15:24

默认的OpenStack Block Storage服务实施是一种iSCSI解决方案，它使用Linux的逻辑卷管理器（LVM）(../common/glossary.html#term-logical-volume-manager-lvm)。

> **注意**
>
> OpenStack Block Storage服务不是像NFS卷的网络连接存储（NAS）那样的共享存储解决方案，您可以将卷连接到多个服务器。借助OpenStack块存储服务，您一次只能将卷附加到一个实例。
>
> OpenStack Block Storage服务还提供驱动程序，使您可以使用多个供应商的后端存储设备以及基本LVM实施。这些存储设备也可以用来代替基本的LVM安装。

该高级过程向您展示了如何创建卷并将其附加到服务器实例。

创建卷并将其附加到实例

1. 通过**/etc/cinder/cinder.conf**文件配置OpenStack计算和OpenStack块存储服务。
2. 使用**openstack volume create**命令创建卷。该命令将LV创建到卷组（VG）中**cinder-volumes**。
3. 使用**openstack server add volume**命令将卷附加到实例。该命令创建一个暴露给计算节点的唯一IQN (../common/glossary.html#term-iscsi-qualified-name-iqn)。
   - 运行实例的计算节点现在具有活动的iSCSI会话和新的本地存储（通常是**/dev/sdX** 磁盘）。
   - Libvirt使用该本地存储作为实例的存储。实例获取新磁盘（通常是**/dev/vdX**磁盘）。

对于这个特殊的演练中，一个云控制器运行 **nova-api**，**nova-scheduler**，**nova-objectstore**， **nova-network**和**cinder-***服务。两个额外的计算节点运行**nova-compute**。演练使用自定义分区方案，可以分割出60 GB的空间并将其标记为LVM。网络使用**FlatManager**和**NetworkManager** 设置OpenStack计算。

网络模式不会干扰OpenStack块存储操作，但您必须设置网络才能使块存储正常工作。有关详情，请参阅联网 (https://docs.openstack.org/neutron/latest/)。

要将Compute设置为使用卷，请确保已经安装了块存储**lvm2**。本指南介绍如何排除安装故障并备份计算卷。

注意

要启用加密卷，请参阅创建加密卷类型中 (https://docs.openstack.org/cinder/latest/configuration/block-storage/volume-encryption.html#create-an-encrypted-volume-type)的设置说明 。

« (blockstorage-api-throughput.html) » (blockstorage-boot-from-volume.html) (https://bugs.launchpad.net/cinder/+filebug?field.title=Manage%20volumes%20in%20Cinder&field.comment=%0A%0A%0AThis bug tracker is for errors with the documentation, use the following as a template and remove or add fields as you see fit. Convert [ ] into [x] to check boxes:%0A%0A- [ ] This doc is inaccurate in this way: _____%0A- [ ] This is a doc addition request.%0A- [ ] I have a fix to the document that I can paste below including example: input and output. %0A%0AIf you have a troubleshooting or support issue, use the following resources:%0A%0A - Ask OpenStack: http://ask.openstack.org%0A - The mailing list: http://lists.openstack.org%0A - IRC: 'openstack' channel on Freenode%0A%0A----------%0ARelease:%2012.0.1.dev9%20on%202018-03-08%2015:24%0ASHA:%20ca6e2fb1fb74150680bff605a241947fc88ddd51%0ASource:%20https://git.openstack.org/cgit/openstack/cinder/tree/doc/source/admin/blockstorage-manage-volumes.rst%0AURL: https://docs.openstack.org/cinder/queens/admin/blockstorage-manage-volumes.html&field.tags=doc)

更新日期：2018-03-08 15:24

发现错误？报告错误 (HTTPS://BUGS.LAUNCHPAD.NET/CINDER/+FILEBUG?FIELD.TITLE=MANAGE%20VOLUMES%20IN%20CINDER&FIELD.COMMENT=%0A%0A%0ATHIS BUG TRACKER IS FOR ERRORS WITH THE DOCUMENTATION, USE THE FOLLOWING AS A TEMPLATE AND REMOVE OR ADD FIELDS AS YOU SEE FIT. CONVERT [ ] INTO [X] TO CHECK BOXES:%0A%0A- [ ] THIS DOC IS INACCURATE IN THIS WAY: _____%0A- [ ] THIS IS A DOC ADDITION REQUEST.%0A- [ ] I HAVE A FIX TO THE DOCUMENT THAT I CAN PASTE BELOW INCLUDING EXAMPLE: INPUT AND OUTPUT. %0A%0AIF YOU HAVE A TROUBLESHOOTING OR SUPPORT ISSUE, USE THE FOLLOWING RESOURCES:%0A%0A - ASK OPENSTACK: HTTP://ASK.OPENSTACK.ORG%0A - THE MAILING LIST: HTTP://LISTS.OPENSTACK.ORG%0A - IRC: 'OPENSTACK' CHANNEL ON FREENODE%0A%0A----------%0ARELEASE:%2012.0.1.DEV9%20ON%202018-03-08%2015:24%0ASHA:%20CA6E2FB1FB74150680BFF605A241947FC88DDD51%0ASOURCE:%20HTTPS://GIT.OPENSTACK.ORG/CGIT/OPENSTACK/CINDER/TREE/DOC/SOURCE/ADMIN/BLOCKSTORAGE-MANAGE-VOLUMES.RST%0AURL: HTTPS://DOCS.OPENSTACK.ORG/CINDER/QUEENS/ADMIN/BLOCKSTORAGE-MANAGE-VOLUMES.HTML&FIELD.TAGS=DOC)

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
- 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 (blockstorage-nfs-backend.html)
- 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)
