

# 覆盖（隧道）协议

« (intro-network-components.html) » (intro-network-namespaces.html) 🐛 (https://bugs.launchpad.net/neutron/+filebug?field.title=Overlay%20(tunnel)%20protocols%20in%20Neutron&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.dev11%20on%202018-03-07%2021:05%0ASHA:%2043df2709acbdce86686a40b75fd34e96880427d0%0ASource:%20https://git.openstack.org/cgit/openstack/neutron/tree/doc/source/admin/intro-overlay-protocols.rst%0AURL: https://docs.openstack.org/neutron/queens/admin/intro-overlay-protocols.html&field.tags=doc)

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隧道是一种机制，可以通过不兼容的传送网络传送有效载荷。它允许网络用户访问被拒绝或不安全的网络。可以采用数据加密来传输有效负载，确保封装的用户网络数据即使是私有的，也可以很容易地通过冲突的网络。

## 通用路由封装（GRE）Ⅰ

通用路由封装（GRE）是一种通过IP运行的协议，当传递和有效载荷协议兼容但有效载荷地址不兼容时采用。例如，有效负载可能认为它在数据链路层上运行，但实际上它使用基于IP的数据报协议在传输层上运行。GRE创建一个私人的点对点连接，并通过封装一个有效载荷来工作。GRE是其他隧道协议的基础协议，但GRE隧道仅提供弱认证。

## 虚拟可扩展局域网（VXLAN）Ⅰ

VXLAN的目的是提供可扩展的网络隔离。VXLAN是第3层网络上的第2层覆盖方案。它允许覆盖第2层网络分布在多个底层第3层网络域中。每个覆盖被称为VXLAN段。只有同一个VXLAN段内的VM才可以通信。

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🐛 发现错误？报告错误 (HTTPS://BUGS.LAUNCHPAD.NET/NEUTRON/+FILEBUG?FIELD.TITLE=OVERLAY%20(TUNNEL)%20PROTOCOLS%20IN%20NEUTRON&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.DEV11%20ON%202018-03-07%2021:05%0ASHA:%2043DF2709ACBDCE86686A40B75FD34E96880427D0%0ASOURCE:%20HTTPS://GIT.OPENSTACK.ORG/CGIT/OPENSTACK/NEUTRON/TREE/DOC/SOURCE/ADMIN/INTRO-OVERLAY-PROTOCOLS.RST%0AURL: HTTPS://DOCS.OPENSTACK.ORG/NEUTRON/QUEENS/ADMIN/INTRO-OVERLAY-PROTOCOLS.HTML&FIELD.TAGS=DOC)

❓ 问题吗？(HTTP://ASK.OPENSTACK.ORG)

- 中子配置选项 (../configuration/index.html)
- 命令行界面参考 (../cli/index.html)
- 中子特征分类 (../feature\_classification/index.html)
- 贡献者指南 (../contributor/index.html)

页面内容

- 通用路由封装（GRE）
- 虚拟可扩展局域网（VXLAN）

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/>)

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- 用户组 (<http://openstack.org/community/>)
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- 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/>)
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