



自由畅聊，我用 **Matrix**

vimacs <<https://vimacs.lcpu.club>>



# 主要内容

- 什么是 Matrix
- Matrix 协议简介
- 使用 Matrix 聊天
- 谁在使用 Matrix



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# 什么是 Matrix

Matrix(<https://matrix.org>) 是一个开放的联邦式的用于即时通信（IM）、IP 语音（VoIP）和物联网（IoT）的开放 API.



# 现有的即时通信服务

- IRC
- XMPP
- Signal
- Wire
- Telegram
- Slack
- ...



# Matrix 的特点

- HTTP+JSON
- 开放标准：
  - 人人可参与
  - 公开文档、无专利
  - 自由的参考实现
- 去中心化：联邦式协议



# 为什么用 Matrix

- 自由的客户端
- 自由的服务端
- 联邦式协议
- 支持端到端加密
- 支持上传图片、视频等文件
- VoIP、WebRTC



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# Matrix 协议架构

- 基于聊天室
  - 私聊是群聊的特例
- 聊天室内的事件在服务器间同步
  - 一个聊天室的聊天记录在所有参与聊天的服务器中都有一个复本
  - 没有某个单独的服务器控制聊天室
  - 避免单点失效
  - 不同于 XMPP MUC



# Matrix API

- Client-Server
  - 用户的注册和认证
  - 聊天室操作
  - 即时通信
  - WebRTC call signaling
- Federation
- Application Service
  - 用于扩展服务器，如提供桥接服务
- Identity Service
  - 提供 3PID 支持
  - ID server 一般使用中心化的服务器，但也可以自己搭建
- Push Gateway



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# Matrix 相关软件

- 客户端
  - Riot: 目前最成熟的客户端，有 web、Android、iOS 三个平台的版本
  - Quaternion
  - WeeChat: [weechat-matrix-protocol-script](#)
  - purple-matrix
- 服务端
  - Synapse
  - Dendrite(WIP)
- Client SDK
  - Python, Go, JS, ...
- 其他
  - matrix-appservice-\*
  - 机器人: Hello Matrix Bot, Hubot-Matrix, NEB, ...



# 用 Matrix 聊天

- 选择服务器
- 使用 Riot
  - Web:
    - pacman -S riot-web (and riot-desktop)
    - <https://riot.im/app>, <https://chat.disroot.org>, <https://webchat.weho.st>
  - Android: F-Droid, Google Play
  - iOS
- 进入聊天室 / 找人聊天
- 使用端到端加密

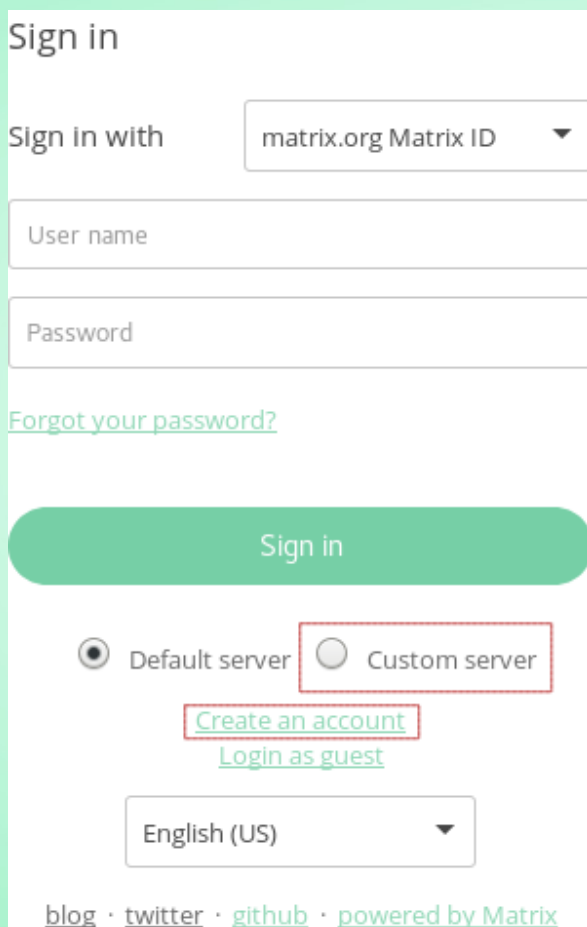


# 选择服务器

- Hello Matrix 的非官方服务器列表：  
[https://www.hello-matrix.net/public\\_servers.php](https://www.hello-matrix.net/public_servers.php)
- 规模较大的服务器
  - matrix.org
  - disroot.org
  - chat.weho.st
- 也可以自己搭建服务器



# 注册和登录



The screenshot shows the Matrix login and registration interface. At the top, it says "Sign in". Below that, there's a "Sign in with" dropdown menu set to "matrix.org Matrix ID". There are input fields for "User name" and "Password". A link for "Forgot your password?" is below the password field. A green "Sign in" button is below the input fields. Below the button, there are two radio buttons: "Default server" (selected) and "Custom server". Below these, there are two links: "Create an account" and "Login as guest". At the bottom, there's a language dropdown menu set to "English (US)". At the very bottom, there are links for "blog", "twitter", "github", and "powered by Matrix".

- 在注册和登录界面选择服务器， User name 处不填写 Matrix ID 的域名
- 登录后在设置页面查看自己的 Matrix ID



# 开始聊天

- 建立新的聊天室
  - 邀请用户
  - 设置聊天室别名
- 加入聊天室
- 桥接的 IRC 聊天室
  - matrix.org 提供 IRC 桥接
  - 支持 freenode, snoonet, mozilla, oftc 等服务器
  - 聊天室别名为 #freenode\_#tuna:matrix.org





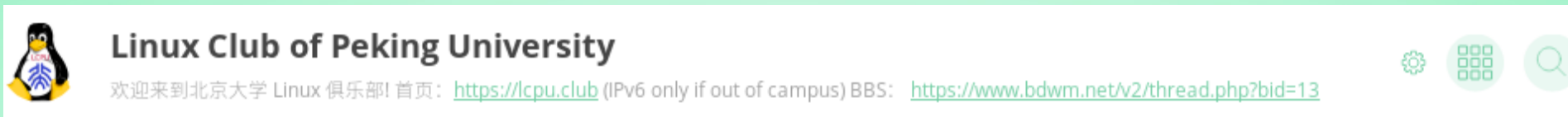
# Riot web 基本操作



- Riot web 的左下角的几个按钮的功能分别为：
  - 首页
  - 开始聊天：邀请其他用户参与聊天，新建聊天室的所有成员都是聊天室管理员
  - 聊天室目录：查看服务器上发布到聊天室目录的聊天室
  - 创建聊天室：创建一个聊天室，创建者成为聊天室管理员
  - 设置：Riot 设置和用户设置



# Riot web 的聊天室操作



- 在聊天室界面的右上角有 3 个按钮
  - 设置：设置聊天室的访问权限、聊天室别名、端到端加密、是否发布聊天室到聊天室目录
  - 管理集成：包括将聊天室桥接到已有 IRC 频道，GitHub 集成等
  - 搜索

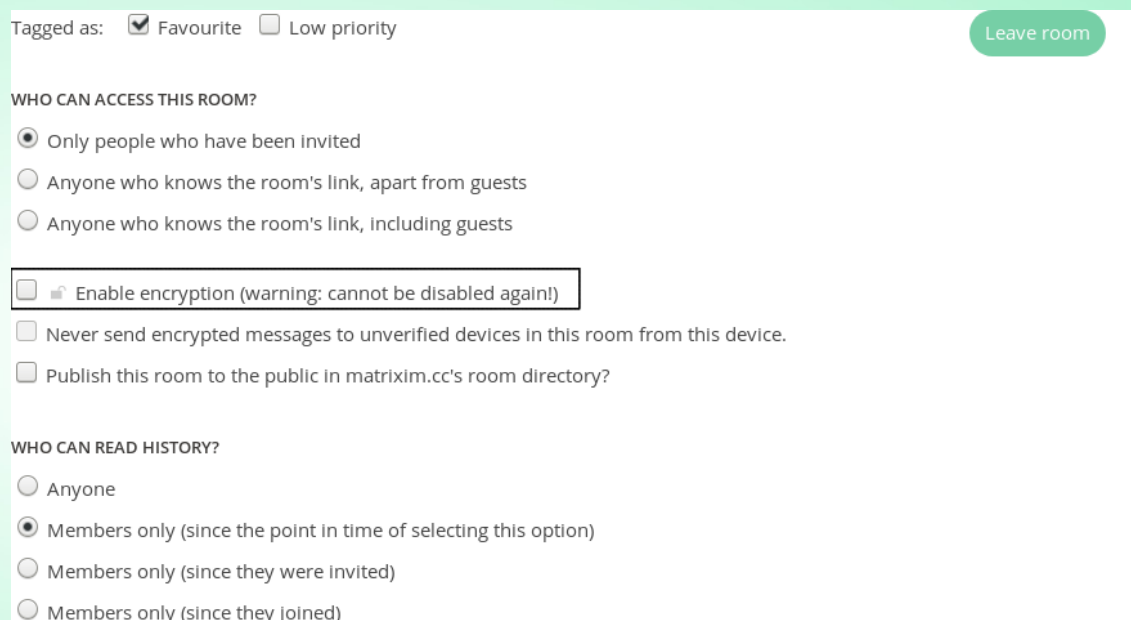


# 端到端加密

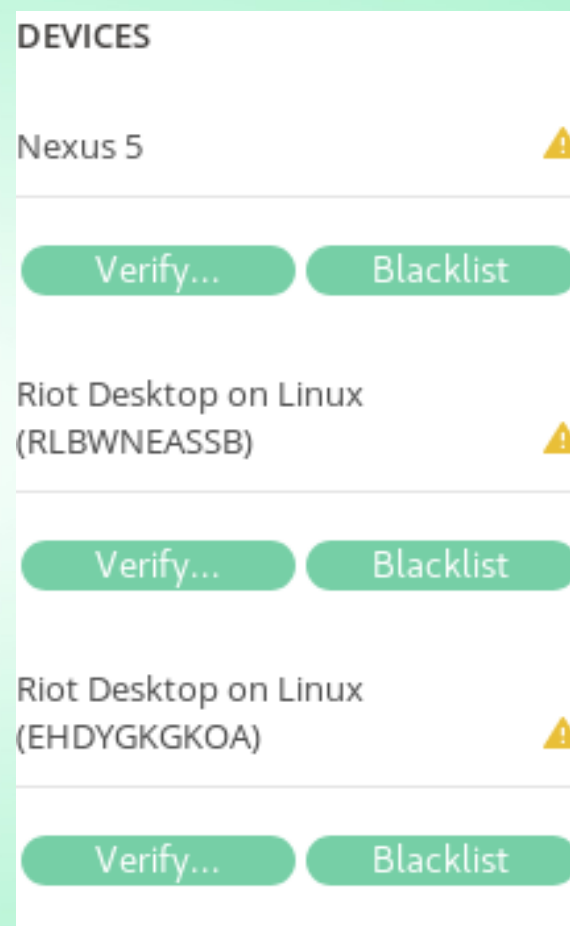
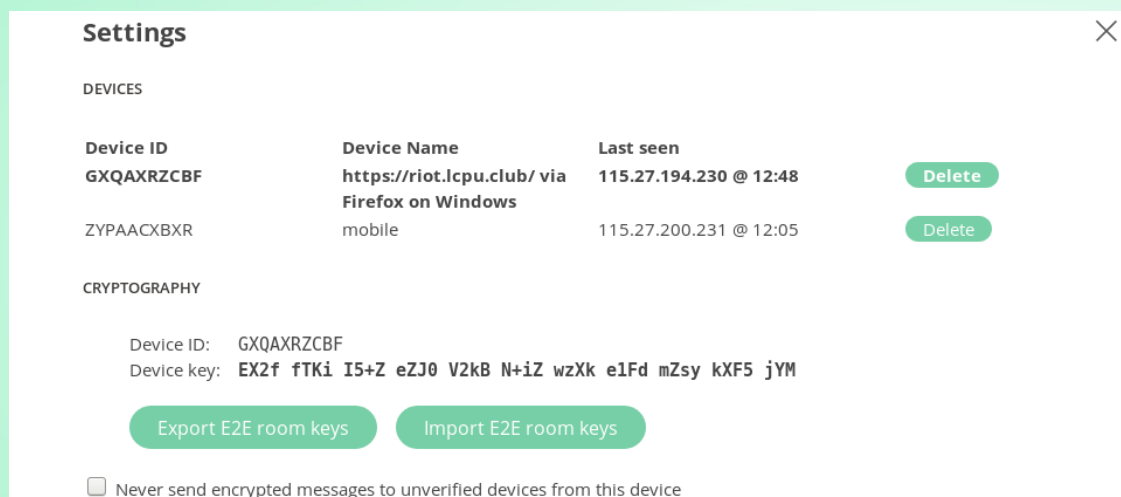
- 为什么要端到端加密？
  - 因为我们不能相信服务器
- <https://git.matrix.org/git/olm/about/>
- 使用 Double Ratchet 算法：Olm
  - 保密性、完整性和身份验证
  - 前向安全
  - 可否认性
- 用 Megolm 支持多端加密
  - 群聊加密
  - 多设备加密



# 在 Riot 中使用端到端加密



# 验证端到端加密公钥



# 搭建 Matrix 服务器

- 目前成熟的客户端是 Synapse
- 配置比较简单
  - 数据库： PostgreSQL 或 SQLite
  - Google 验证码
  - URL preview
  - TURN server: 需要在 TURN server 上安装 coturn
- 在 web 服务器中设置反向代理
  - 可以用与 Matrix 服务器不同的域名
- 清理数据库
  - synpurge
  - <https://matrixim.cc/purge.sh>





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324 postgres 20 0 280M 127M 127M S 0.0 6.4 1:39.19 postgres: 9.6/main: writer proc																									251 systemd-n 20 0 78556 1700 1004 S 0.0 0.7 0:00.18 /usr/lib/systemd/systemd-network																								
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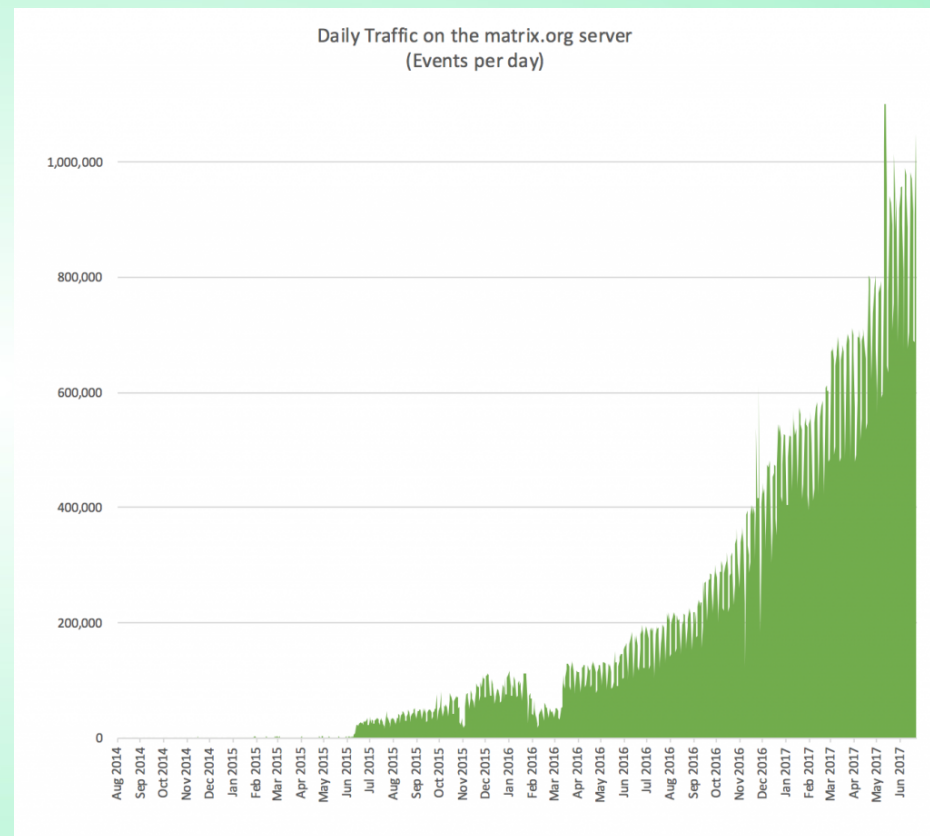
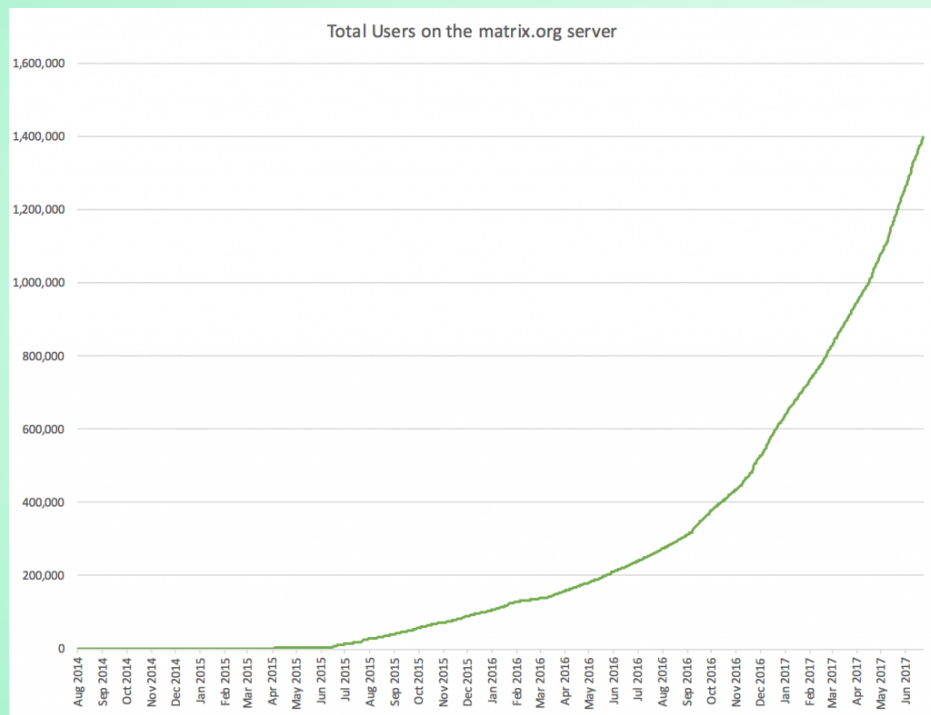
北京大学 Linux 俱乐部 <<https://lcpu.club>>



# 谁在使用 Matrix?

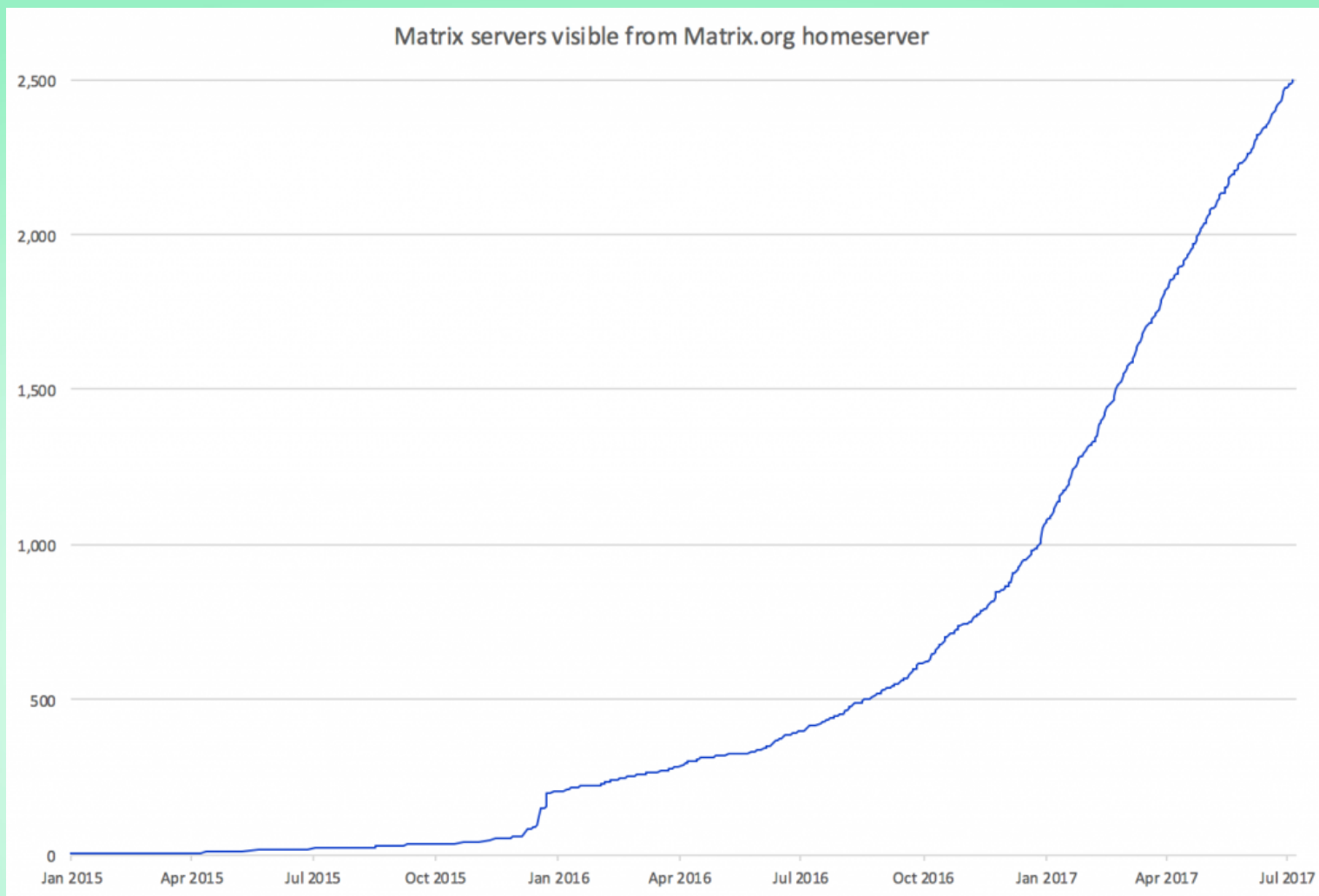











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	DISCOVERED ROOMS 1,390		ROOM ALIASES 3,832		DISCOVERED USERS 283,214		DISCOVERED SERVERS 1,408		ROOM MENTIONS 8,075
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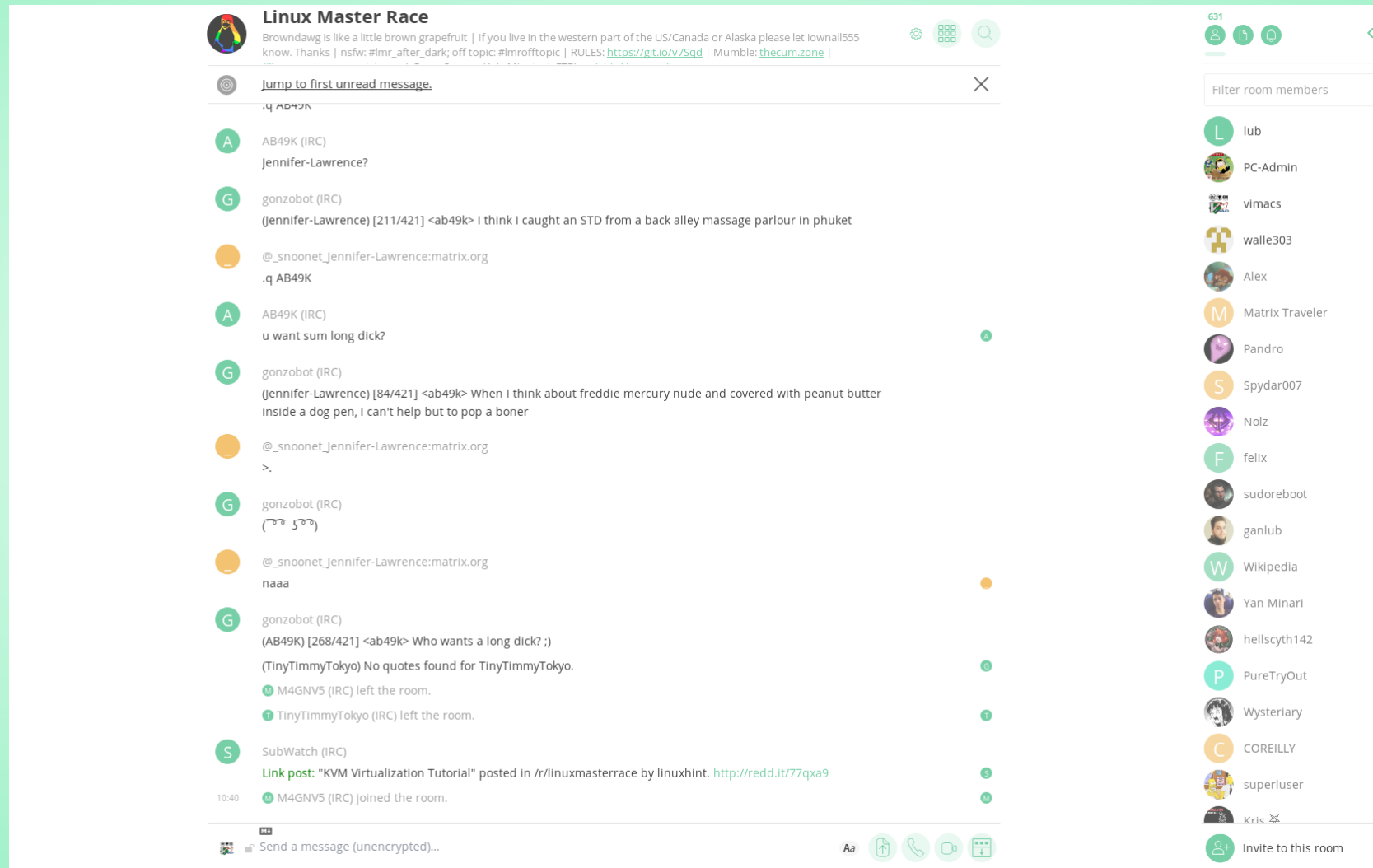


# Alpine Linux

	<b>Alpine Linux</b> <span>GUESTS CAN JOIN</span> Alpine Linux, the secure lightweight distro   alpine-3.6.2 was released June 17, 2017 #alpine-linux:alpinelinux.org	323
	<b>Alpine Devel</b> <span>GUESTS CAN JOIN</span> Alpine Linux distribution development   release 3.6.2 is out!   Also available on <a href="#">#devel:alpinelinux.org</a> (matrix) #alpine-devel:alpinelinux.org	153
	<b>Alpine Offtopic</b> <span>GUESTS CAN JOIN</span> #alpine-offtopic:alpinelinux.org	36
	<b>Alpine Commits</b> <span>GUESTS CAN JOIN</span> For discussion please use #alpine-devel. For build status see: <a href="http://build.alpinelinux.org">http://build.alpinelinux.org</a> #alpine-commits:alpinelinux.org	29



# r/linuxmasterrace




The screenshot displays the subreddit page for r/linuxmasterrace. At the top, the subreddit name "Linux Master Race" is shown with a parrot icon. Below the header, there's a list of posts. The first post is by user "AB49K (IRC)" with the title "Jennifer-Lawrence?". It has a green icon and a timestamp of [211/421]. The second post is by "gonzobot (IRC)" with the title "(Jennifer-Lawrence) [211/421] <ab49k> I think I caught an STD from a back alley massage parlour in phuket". It also has a green icon and a timestamp of [84/421]. The third post is by "@\_snoonet\_Jennifer-Lawrence:matrix.org" with the title ".q AB49K". It has an orange icon and a timestamp of [268/421]. The fourth post is by "gonzobot (IRC)" with the title "u want sum long dick?". It has a green icon and a timestamp of [268/421]. The fifth post is by "gonzobot (IRC)" with the title "(Jennifer-Lawrence) [84/421] <ab49k> When I think about freddie mercury nude and covered with peanut butter inside a dog pen, I can't help but to pop a boner". It has a green icon and a timestamp of [268/421]. The sixth post is by "@\_snoonet\_Jennifer-Lawrence:matrix.org" with the title ">.". It has an orange icon and a timestamp of [268/421]. The seventh post is by "gonzobot (IRC)" with the title "(700 500)". It has a green icon and a timestamp of [268/421]. The eighth post is by "@\_snoonet\_Jennifer-Lawrence:matrix.org" with the title "naaa". It has an orange icon and a timestamp of [268/421]. The ninth post is by "gonzobot (IRC)" with the title "(AB49K) [268/421] <ab49k> Who wants a long dick? ;)". It has a green icon and a timestamp of [268/421]. The tenth post is by "(TinyTimmyTokyo)" with the title "No quotes found for TinyTimmyTokyo.". It has a green icon and a timestamp of [268/421]. The eleventh post is by "M4GNV5 (IRC)" with the title "left the room.". It has a green icon and a timestamp of [268/421]. The twelfth post is by "TinyTimmyTokyo (IRC)" with the title "left the room.". It has a green icon and a timestamp of [268/421]. The thirteenth post is by "SubWatch (IRC)" with the title "Link post: 'KVM Virtualization Tutorial' posted in r/linuxmasterrace by linuxhint. http://redd.it/77qxa9". It has a green icon and a timestamp of [268/421]. The fourteenth post is by "M4GNV5 (IRC)" with the title "Joined the room.". It has a green icon and a timestamp of [268/421]. The sidebar on the right shows a list of room members, including lub, PC-Admin, vimacs, walle303, Alex, Matrix Traveler, Pandro, Spydar007, Nolz, felix, sudoreboot, ganlub, Wikipedia, Yan Minari, hellscyth142, PureTryOut, Wysteriary, COREILLY, superluser, and Kric. There is also a search bar and a filter button.



北京大学 Linux 俱乐部 <<https://lcpu.club>>



# LCPU

**Linux Club of Peking University**


欢迎来到北京大学 Linux 俱乐部! 首页: <https://lcpu.club> (IPv6 only if out of campus) BBS: <https://www.bdwm.net/v2/thread.php?bid=13>


 [Jump to first unread message.](#) 


<https://seap.samsung.com/linux-on-galaxy>






[Linux on Galaxy | SEAP](#)




Enroll Sign In Home Linux on Galaxy Linux on Galaxy enables developers to use Samsung smartphones for all their computing needs, even app development. Linux on Galaxy allows the latest Samsung Galaxy smartphone users to run their preferred Linux distribution on their smartphones utilizing the same Linux kernel that powers the Android OS to ensure the best possible performance.






















 @bdwm:matrixim.cc  
LCPU 本学期第 4 次活动: Key Signing Party  
北京大学 Linux 俱乐部 2017-2018 学年秋季学期第 4 次活动  
OpenPGP Key Signing Party  
开始时间: 2017 年 10 月 21 日 (周六) 19:30  
地点: 二教 506  
  
要参加 signing party 的同学请参考 [1] 中的指南提前生成自己的密钥, 并准备好可以证明自己身份的证件; 最好也准备写有自己姓名和密钥 fingerprint 的纸条。若在活动前后有疑问, 可以回帖询问。因为同一天下午在隔壁举行的自由软件日活动, 本次活动推迟了开始时间。活动时间如有剩余, 将进行自由讨论。  
  
[1] <<https://lcpu.club/wiki/index.php?title=OpenPGP>  
%E6%B4%BB%E5%8A%A8%E6%8C%87%E5%8D%97>.  
  
Yesterday  



 Send a message (unencrypted)...

42  
    
Filter room members  

 vimacs  
 @bdwm:matrixim.cc  
 abc  
 @telysia:matrixim.cc  
 ヨイツの賢狼ホロ | 7th style  
 Wikipedia  
 IceCodeNew  
 farseerfc  
 frankzhang  
 jiamingpku  
 Taniel  
 cheshire\_cat  
 yky  
 wzhd  
 caspervector测试号  
 =。=  
 Franmk  
 TanyaAdams  
 zwindcc  
 Qwertulack  
 Invite to this room

北京大学 Linux 俱乐部 <<https://lcpu.club>>

# Librem 5

## Matrix Core Team

We have partnered with the Core development team from Matrix, and are excited to be able to incorporate the amazing talents from this remarkable team into the core communications of the Librem 5!



*“The idea of a Matrix-native smartphone is unbelievably exciting. Matrix has always aimed to be a decentralised encrypted alternative to the public telephone network, and the Librem 5 makes this all the more true. With truly open communications and a truly open operating system, this is a vision of a world where users are back in control of their communication and their technology, rather than being trapped in proprietary communication silos – a world that cannot come soon enough!”*

— Matthew Hodgson, Co-founder of Matrix.org



**Thank you for listening!**

