

BRUSSELS 30 JANUARY - 31 JANUARY

FOSDEM 16.org

**8000
HACKERS**

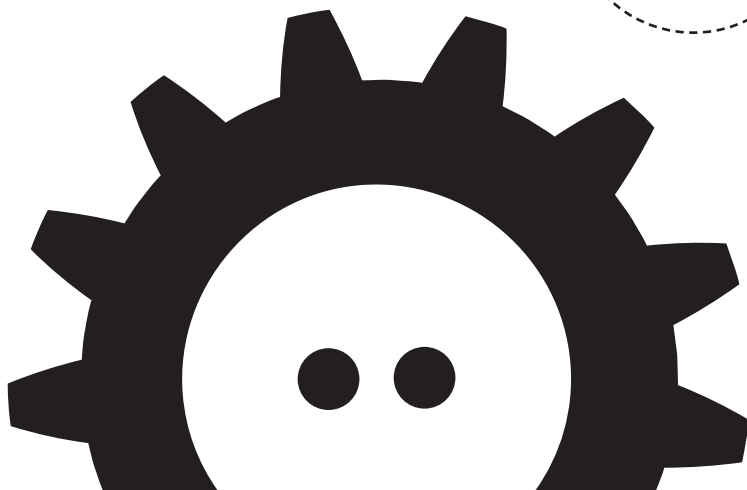
**600+
LECTURES**

**DEV
ROOM**

**OPEN
SOURCE**

BEER

**LIGHTNING
TALKS**



WELCOME TO THE 16TH EDITION OF FOSDEM



INFODESK

In this booklet, you will find useful information about the conference and the venue. If you have any questions, the volunteers at the infodesks will be happy to help you. The main infodesk is located in building K. A secondary infodesk can be found in building H. Staff and volunteers also roam around the campus and can be recognised by their bright yellow and orange T-shirts. There is a handy map on the back of this booklet, pointing out the locations of all buildings, rooms, and the infodesks.

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CODE OF CONDUCT

In order to keep FOSDEM a fun, interesting and positive experience for everybody, we expect participants to follow the guidelines below.

FOSDEM aims to be a free, open and cooperative event. This means we expect collaboration from all the FOSDEM participants, and for everybody to behave respectfully towards all others, including those that are different or think differently from yourself.

Please be helpful, considerate, friendly and respectful towards all other participants and respect the environment. We don't condone harassment or offensive behaviour at our conference. We consider it against our values as human beings. We're voicing our strong, unequivocal support of exemplary behaviour by all participants.

Please remember that all FOSDEM participants are here by invitation of the conference organisers and the ULB. We expect all participants to follow this Code of Conduct during the conference and related events. This includes conference-related social events at off-site locations, and in related online communities and social media. Participants asked to stop any unacceptable behaviour are expected to comply immediately. Conference participants violating this Code of Conduct may be expelled from the conference and/or banned from formal participation in future events.

Please bring any concerns to the immediate attention of our coordinating team, by phone +32 2 788 74 73 or email conduct@fosdem.org

Thank you for your help in making FOSDEM a success and pleasant for all the people involved.

FIRST AID

A Red Cross first aid team is present during the weekend. This team is located behind the large auditorium on the second level of the K building.

In an emergency, you can phone the infodesk on +32 2 788 74 74

FRINGE EVENTS

The FOSDEM Fringe consists of independent events involving free and open source software taking place in the days around the FOSDEM weekend. They are organised independently of FOSDEM.

The list of events can be found on the FOSDEM web site at fosdem.org/2016/fringe



DONATIONS

FOSDEM is free to attend. The event is organised by volunteers and funded entirely by sponsors, the sale of T-shirts, and individual donations.

In order to keep the event free, we kindly ask you to buy a T-shirt and/or to make a donation at one of the infodesks. Your donation supports FOSDEM 2016 and future editions. Depending on the amount you donate, you will receive one or more of the following along with our gratitude:

T-shirts are available in **male sizes:** M, L, XL, XXL.

In **female sizes:** S, M, L, XL, XXL.

It is not possible to get a refund for any reason.
Donations are not tax-deductible.

	EUR 25,00	EUR 50,00	EUR 100,00
FOSDEM T-shirt			
O'Reilly pocket book			
O'Reilly book			

GENERAL INFORMATION

NETWORK

Best-effort wireless network coverage is available everywhere on campus. To encourage you to support IPv6 in your applications our main "FOSDEM" ESSID does not support IPv4 natively. There are transition measures in place to reach IPv4-only hosts over IPv6 (DNS64 and NAT64). If you cannot live without native legacy IP connectivity for some reason, you can use the dual-stack "FOSDEM-fallback" ESSID. Please consider fixing your application or service though.

ONLINE SCHEDULE

- The full conference schedule is available on our website: fosdem.org/schedule/
- There are third-party applications for just about every smartphone operating system. Check your respective app store/market or see the list at fosdem.org/schedule/mobile/

ACCESSIBILITY

While we don't own the university campus and have little control over its accessibility, we have tried to find ways for developers with physical limitations to make the most of the event. All rooms except for **AW1.121** and **AW1.125** are accessible to wheelchair users. There are ramps and lifts.

The accessible routes and the location of the lifts are not always obvious but FOSDEM staff and volunteers will be happy to show you around. We reserve a limited number of seats at the front of both main track rooms for developers with hearing or visual impairments. We cannot make advance reservations in every developer room, but accommodations can usually be made on the spot.

Mark van den Borre is particularly familiar with the campus. You can contact him directly during the event by email (mvandenborre@fosdem.org) or phone (+32 486 961 726). You can also ask any volunteer or staff member to radio him.

CLOAKROOM

Do you want to get rid of heavy bags, or are you tired of carrying your coat or umbrella around with you? Store them free of charge at our staffed cloakroom during the event. Simply follow the signs in the K building.

LOST PROPERTY

Lost one of your precious belongings? Found something that looks like someone lost it? Please go to the infodesk in the K building for assistance.

CATERING

There are three places on the campus where you can get food and/or drinks (see the map at the back for the exact locations):

The cafeteria has comfortable seating and serves espresso, breakfast, sandwiches, and drinks during the event. A second bar is located in the F building (between K and U). Coffee, beer, soda and other drinks are available here. "The food vans will be located on the square between the F and U buildings. Extra vans can be found in front of Janson, at the street side.

The food court has catering vans offering hot food including burgers, hot dogs, sandwiches, vegetarian wraps, and waffles. The fries van can be found in front of Janson at the street side.

The bar under Janson has sandwiches and loads of beer. Please try to stay quiet while in there. People in Janson can hear you. In the area surrounding the campus there are many other shops and restaurants where you can get food. See the surroundings map on page 22-23.

CASH POINTS

There is a cash point on the campus, just past the main bar near the food stands, but experience shows that it runs out of cash quickly during FOSDEM. An alternative cash point can be found at 466, Chaussée de Boondael. To get there, leave the campus towards Av. Adolphe Buyl, and continue straight ahead until the third roundabout and turn left there. You will find the cash point on the left side of the street.

DO US A FAVOUR...

GARBAGE & GLASS

Please try to keep the campus clean! Throw your garbage into the bins. If you see a full bin, please let staff, volunteers, or infodesk know.

Glass bottles should be put in the boxes located near some bins or in the designated container near the lower level of the H building. If you see people scavenging bottles, please report them to security, staff, volunteers, or infodesk immediately.

CLEANUP

After FOSDEM is over, we will need to clean up, and quickly. We would greatly appreciate your help. This can be as simple as helping stands carry their equipment, grabbing a broom and cleaning the floors, or lend a hand collecting all of FOSDEM's gear. Simply talk to staff, volunteers, or infodesk.

FEEDBACK

How are we doing? Are you enjoying this edition of FOSDEM? Is there anything we can do to make future events better? Please take a minute to fill in our feedback form on page 21.

GETTING AROUND MEETING PEOPLE AND DOING THINGS

PUBLIC TRANSPORT

The following STIB/MIVB routes call at "ULB"

- **Bus 71 De Brouckère – Delta**
- **Bus 72 ADEPS – Devèze-ULB**
- **Tram 25 Rogier – Boondael**
- **Tram 94 Louise – Musée du Tram**

Due to roadworks, the trams skip the stop "ULB". Use the stop "Cambre-Étoile" and take the special T-bus which stops at ULB on Av. Franklin Roosevelt. Bus 71 will also make a detour, use the stops "Buyl" or "Cimetière d'Ixelles", which are a 5 minute walk from the campus. See page 22-23 for a map of the surroundings.

TAXI

If you need a taxi, we suggest calling Taxi Verts on +32 2 349 49 49.

The address of the venue is:

**ULB Campus Solbosch
50, Av. Franklin D. Roosevelt
1050 Bruxelles**

The location where taxis expect to pick you up is marked on the map on the back cover.

FREE SHUTTLE BUSES

On Sunday afternoon, FOSDEM provides a free shuttle bus service from the conference venue to Brussels South (Midi) railway station which has a regular service to many popular destinations within Belgium and to surrounding countries. Four buses will run at roughly 15-minute intervals from

Av. Franklin D. Roosevelt. The journey takes approximately 20 minutes. Based on previous experience, we expect the buses to be busiest from 17:30 on. The first bus leaves at 15:30. The last departure will be at 19:30. If you don't want to queue, why not leave later? There are plenty of bars in the neighbourhood where you can pass the time!

KEYSIGNING

The keysigning will take place on Sunday at 14:00 in the corridor on the second level of the U building. Please bring the printed and verified list, a pen, and appropriate form of identification with you to FOSDEM. Be on time! Please be sure to complete your signing homework before Sunday, 5 June 2016, and upload new signatures on your keys to a well-connected keyserver.

BOF ROOMS

Small and cosy rooms intended for ad-hoc discussions, meet-ups, or brainstorming sessions. Each seats approximately thirty people. There is deliberately no projector or recording equipment. Reservations are made on a first-come, first-served basis. Signup sheets are available at the infodesk in building H. Directions to the rooms can also be obtained there.

HACKER ROOM

Need a break? Want to spend some quiet time coding? Need to recharge yourself and/or your devices? There is a hacker room where you can sit back and do all that. The hacker room is H.2211 in the upper H building.

ANNOUNCEMENT CORNER

This is the place to be for all sorts of announcements, including adverts and leaflets of software releases, community projects, and so on. Adverts may not be placed anywhere else on campus! Handing out flyers is

likewise not allowed.

In the “job corner” section, information on employment or contracting opportunities can be found. The corner is in the upper H building. Some common sense rules apply. Everything must be related to Open Source software. If in doubt, ask a member of staff.

DEVELOPER ROOMS

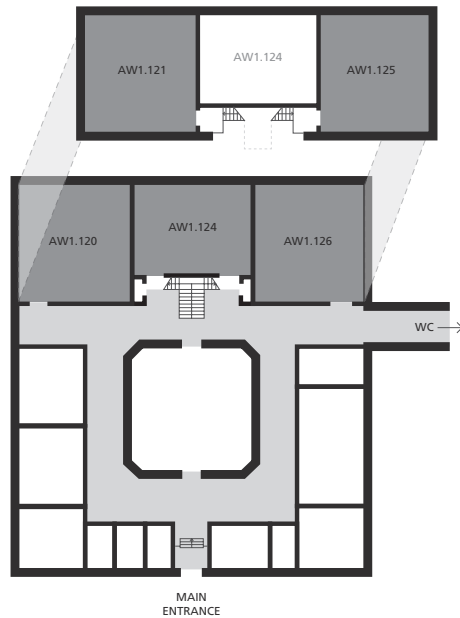
Developer rooms are assigned to self-organising groups to work together on open source projects, to discuss topics relevant to a broader subset of the community, etc.

Saturday		Sunday	
Project	Room	Project	Room
Ada	AW1.124	BSD	K.4.601
Containers & Process Isolation	UA2.114	Coding for Language Communities	AW1.124
Distributions	K.4.201	Config Management	UA2.220
EDA	AW1.121	Desktops	K.4.401
Embedded	UD2.120	Distributions	K.4.201
Free Java	H.1301	Embedded	UD2.120
Graph Processing	AW1.126	Free Java	H.1301
Internet of Things	AW1.125	Geospatial	AW1.121
Legal & Policy Issues	H.2213	Go	H.1302
Lua & GNU Guile	K.3.201	Graphics	K.3.401
Microkernels	K.4.601	High Performance Computing Big Data and Data Science	AW1.126
Mozilla	H.1302	LLVM Toolchain	K.3.201
MySQL & Friends	H.1308	Legal & Policy Issues	UD2.218A
Open Document Editors	K.4.401	Open Game Development	AW1.120
Open Media	H.2214	PHP & Friends	H.1308
Open Source Design	AW1.120	Perl	H.2214
Virtualisation and IaaS	UB2.252A	PostgreSQL	H.1309
Python	UD2.218A	Virtualisation and IaaS	UB2.252A
Real Time	K.3.401	Ruby	H.2213
Security	H.1309	SDN & NFV	UA2.114
Testing & Automation	UA2.220	Software Defined Radio	AW1.125

STANDS

Building AW	Building K - niv 1	Building K - niv 2
	Group A	
Brainduino	Centos	3D Printing
Coreboot/flashrom	Enlightenment	Apache Software Foundation
JavaCard Pro	Fedora	Barghest
Open laptops hardware	GNOME	Coala
OpenEmbedded	KDE	Diaspora
PTXdist & Barebox	Kolab and Roundcube	Eclipse Foundation
Building H	LibreOffice	Google Summer of Code
BBC Open Source	illumos	Jenkins
CoreOS	OpenSuse	Linux from Scratch
MongoDB	ownCloud	Matrix
MySQL	Group B	Mediawiki
O'Reilly Media	BAREOS	Mozilla
OSM / OpenAerialMap	Debian	Perl
Python	Gentoo	PicoTCP
WolfSSL	Mageia.org	The Realtime Lounge
	OpenMandriva	Wikis and CMS
	PostgreSQL	
	ReactOS	
	Group C	
	CAcert	
	DRLM	
	FSFE	
	Gluster	
	OpenStack	
	OpenVZ	
	oVirt/Foreman	
	Xen	

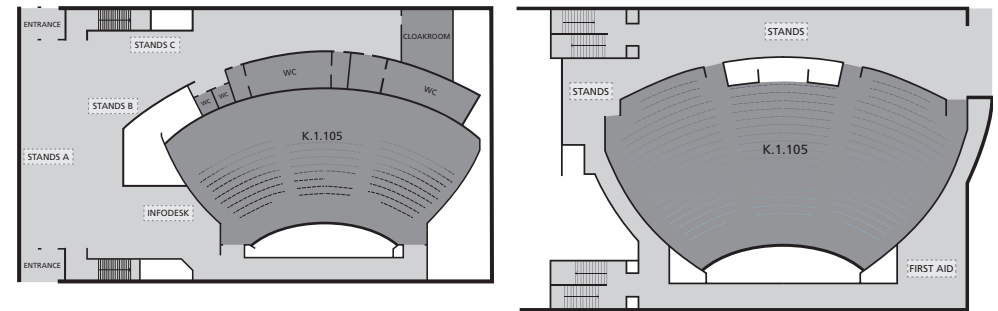
BUILDING AW



Developer rooms: Saturday		Developer rooms: Sunday	
Project	Room	Project	Room
Open Source Design	AW1.120	Open Game Development	AW1.120
EDA	AW1.121	Geospatial	AW1.121
Ada	AW1.124	Coding for Language Communities	AW1.124
Internet of Things	AW1.125	Software Defined Radio	AW1.125
Graph Processing	AW1.126	High Performance Computing Big Data and Data Science	AW1.126

Stands	
Brainduino	Open hardware Laptops
Coreboot/ flashrom	OpenEmbedded
JavaCard Pro	PTXdist & Barebox

BUILDING K - LEVEL 1 - 2

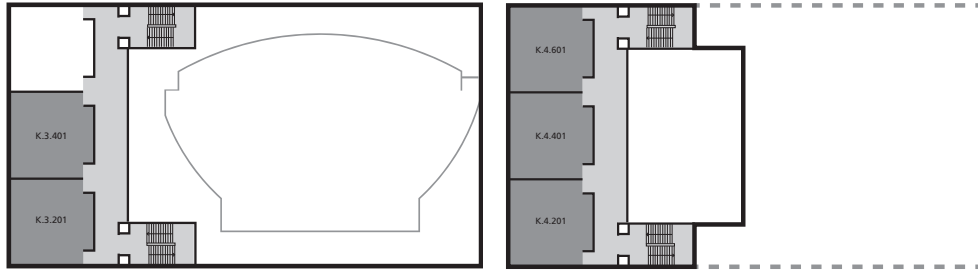


Main tracks: Saturday	Main tracks: Sunday
Hardware	Communications
Systems Administration	Miscellaneous
	Virtualisation

Stands		
Group A		
CentOS	Illumos	OpenSuse
Enlightenment	KDE	OwnCloud
Fedora	Kolab and Roundcube	
GNOME	LibreOffice	
Group B		
BAREOS	Mageia.org	ReactOS
Debian	OpenMandriva	
Gentoo	PostgreSQL	
Group C		
CAcert	Gluster	OpenVZ
DRLM	oVirt/Foreman	Xen
FSFE	OpenStack	

BUILDING K - LEVEL 3 - 4

The stands are on level 2 of K building



Developer rooms: Saturday		Developer rooms: Sunday	
Project	Room	Project	Room
GNU Guile, Lua	K.3.201	LLVM Toolchain	K.3.201
Real Time	K.3.401	Graphics	K.3.401
Distributions	K.4.201	Distributions	K.4.201
Open Document Editors	K.4.401	Desktops	K.4.401
Microkernels	K.4.601	BSD	K.4.601

Stands		
3D Printing	Google Summer of Code	Perl
Apache Software Foundation	Jenkins	PicoTCP
Barghest	Linux from Scratch	The Realtime Lounge
Coala	Matrix	Wikis and CMS
Diaspora	Mediawiki	
Eclipse Foundation	Mozilla	

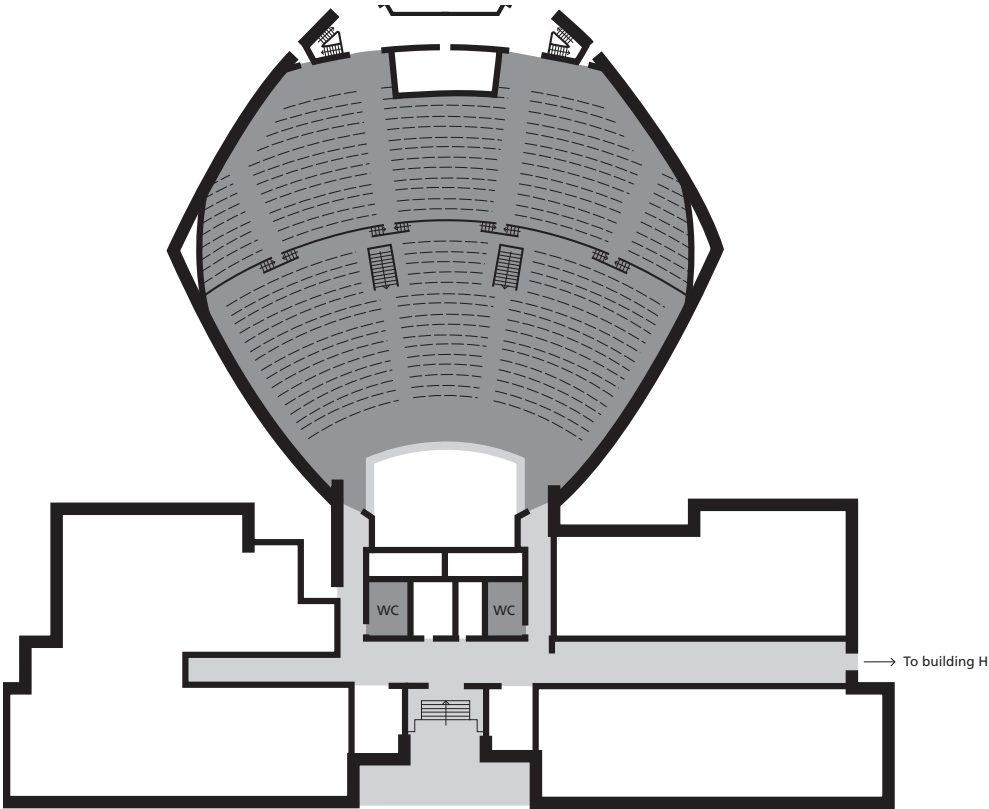
BUILDING H



Developer rooms: Saturday		Developer rooms: Sunday	
Project	Room	Project	Room
Free Java	H.1301	Free Java	H.1301
Mozilla	H.1302	Go	H.1302
MySQL & Friends	H.1308	PHP & Friends	H.1308
Security	H.1309	PostgreSQL	H.1309
Legal & Policy Issues	H.2213	Ruby	H.2213
Open Media	H.2214	Perl	H.2214

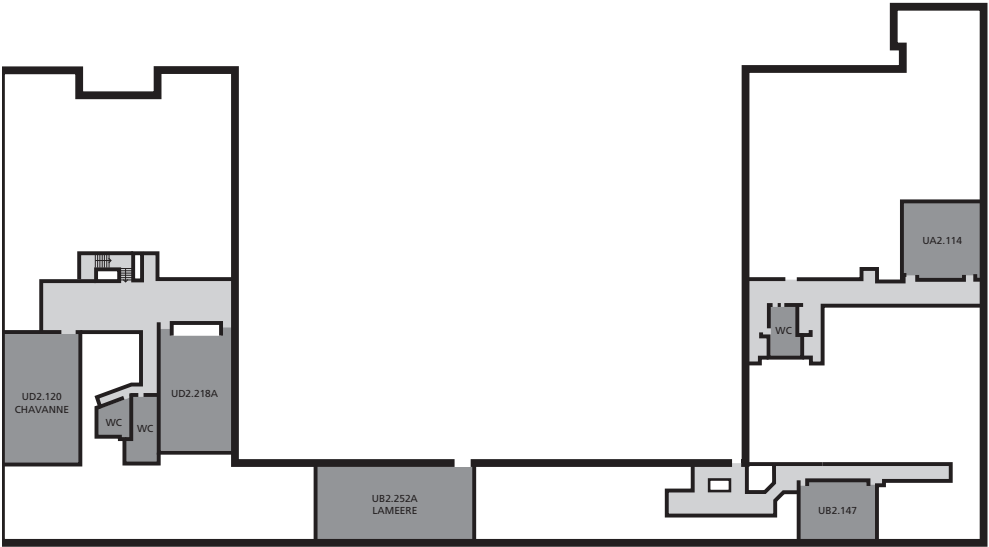
Stands		
BBC Open Source	MySQL	Python
CoreOS	O'Reilly Media	WolfSSL
MongoDB	OSM / OpenAerialMap	

BUILDING J



Main tracks: Saturday	Main tracks: Sunday
Enterprise	Distros
Keynotes	Keynotes
	Miscellaneous
	Office

BUILDING U



Developer rooms: Saturday		Developer rooms: Sunday	
Project	Room	Project	Room
Containers & Process Isolation	UA2.114	SDN & NFV	UA2.114
Testing & Automation	UA2.220	Config Management	UA2.220
Virtualisation and IaaS	UB2.252A	Virtualisation and IaaS	UB2.252A
Embedded	UD2.120	Embedded	UD2.120
Python	UD2.218A	Legal & Policy Issues	UD2.218A

CORNERSTONE SPONSOR



Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to reliable and high-performing cloud, Linux, middleware, storage and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As the connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

- ⚙ Learn more at <http://www.redhat.com/>
- ⚙ Red Hat supports the event financially

MAIN SPONSORS

Bloomberg

Bloomberg technology helps drive the world's financial markets. We provide communications platforms, data, analytics, trading platforms, news and information for the world's leading financial market participants. We deliver through our unrivaled software, digital platforms, mobile applications and state of the art hardware developed by Bloomberg technologists for Bloomberg customers. Our over 4,000 technologists work to define, architect, build and deploy complete systems and solutions that anticipate and fulfill our clients'

needs and market demands. As well, we are known for providing unique biometric security to our customers for over a decade enabling them to access their service securely from a desktop computer, mobile phone or tablet. We have provided communications platforms, true electronic social networking and workflow connectivity in the financial world for over two decades. As a longtime proponent of open source technologies, our developers are also significant contributors to the community including Solr, Hadoop and OpenStack, and we are engaged collaborators with GitHub.

- ⚙ Learn more at <http://www.bloomberg.com/>
- ⚙ Bloomberg supports the event financially



Cisco enables people to make powerful connections - whether in business, education, philanthropy, or creativity. Cisco hardware, software, and service offerings are used to create the Internet solutions that make networks possible - providing easy access to information anywhere, at any time. Cisco was founded in 1984 by a small group of computer scientists from Stanford University. Since the company's inception, Cisco engineers have been leaders in the development of Internet Protocol (IP)-based networking technologies. Today, with more than 67,000 employees worldwide, this tradition of innovation continues with industry-leading products and solutions in the company's core development areas of routing and switching, as well as in advanced technologies such as Application Networking, Data Center, Digital Media, IPICS, Mobility, Security, Storage Networking, TelePresence, Unified Communications, Video and Virtualization.

- ⚙ Learn more at www.cisco.com
- ⚙ Cisco provides all of our WLAN hardware and helps us setting up the wireless network



Codethink specialises in system-level software engineering to enable advanced technical applications,

working across a range of industries including finance, automotive, telecoms and medical. As experts in Free and Open Source Software, they help customers take maximum advantage of the knowledge and technologies developed by the Open Source community. Their customers are international-scale organizations who seek competitive edge through design of enterprise appliances and embedded systems which are faster, smaller, more secure, more up-to-date, or more advanced than their competitors.

- ⚙ Learn more at <http://www.codethink.co.uk/>
- ⚙ Codethink supports the event financially

GitHub

GitHub is the best way to build software together. Whether it's your company's app, your favorite open source library, or a weekend side project, GitHub helps everyone work together better by providing tools for easier collaboration and code sharing. Catch up on what happened while you were out or ask for help on a tricky chunk of code. Manage and contribute to projects from all your devices. The best part is you can keep using all of your favorite tools. Start collaborating on code today—open source project hosting is free!

- ⚙ Learn more at <http://www.github.com>
- ⚙ GitHub supports the event financially

colt

Colt provides network, voice, and data centre services to thousands of businesses around the world, allowing them to focus on delivering their business goals instead of the underlying infrastructure. Customers include 18 of the top 25 banks and diversified financial groups and 19 out of the top 25 companies in both global media and telecoms industries (Forbes 2000 list, 2014). In addition, Colt works with over 50 exchange venues and 13 European central banks. Colt operates across Europe, Asia and North America with connections into over 200 cities globally. It completed the acquisition of KVH in 2014, an integrated managed communications and IT infrastructure services business, with headquarters in Tokyo and operations in Hong Kong, Seoul and Singapore.

⚙ Learn more at <http://www.colt.net/>

⚙ Colt sponsors the internet uplink at FOSDEM



CoreOS, Inc. provides distributed systems technologies to run at-scale services consistently across cloud and data center. CoreOS is the creator and maintainer of open source projects CoreOS Linux, etcd, fleet, flannel, Clair and rkt. In addition, CoreOS is the creator of Tectonic, an enterprise-ready platform that combines Google's Kubernetes and the CoreOS stack for running Linux containers.

The strategies and architectures that influence CoreOS allow companies like Google, Facebook and Twitter to run their services at scale with high resilience.

⚙ Learn more at <http://www.coreos.com> or follow CoreOS on Twitter @coreoslinux

⚙ CoreOS supports the event financially



Since 1997 **DreamHost** has helped entrepreneurs and developers the world over bring their dreams to life on the Internet. From domain registrations to web hosting and even powerful cloud storage and computing services, more than 400,000 customers trust DreamHost to be their online home. Packed with unbelievable value, DreamHost is the best place to launch a blog, website, or web application into the stratosphere.

⚙ Learn more at <http://www.DreamHost.com>

⚙ DreamHost supports the event financially



Google's innovative search technologies connect millions of people around the world with information every day. Founded in 1998 by Stanford Ph.D. students Larry Page and Sergey Brin, Google today is a top web property in all major global markets. Google's

targeted advertising program, which is the largest and fastest growing in the industry, provides businesses of all sizes with measurable results, while enhancing the overall web experience for users. Google is headquartered in Silicon Valley with offices throughout North America, Europe, and Asia.

⚙ Learn more at <http://google.com/>

⚙ Google supports the event financially



Hewlett Packard Enterprise

HP creates new possibilities for technology to have a meaningful impact on people, businesses, governments and society. HP not only extensively uses open source within the company but also contributes our expertise to hundreds of open source projects worldwide. HP actively drives industry-wide discussions on open source best practices as part of the Linux Foundation's Open Compliance Program and SPDX workgroup.

Additionally, HP is also a key contributor to the OpenStack project, which is focused on developing a cloud computing platform, and offers private and public cloud offerings based on OpenStack technology.

⚙ For more information, visit <http://hp.com/go/opensource/>

⚙ HP supports the event financially



Minio is a distributed object storage server. It is written in Go and released under Apache License 2.0. The name Minio stems from Minimal Object storage. Minio will enable application developers to build their own Amazon S3 compatible object storage without any special storage skills. It is light enough to be bundled along with the application stack similar to Node.js and MongoDB.

⚙ Our community hangs out on Gitter @ www.gitter.minio.io.

⚙ Minio supports the event financially



MySQL is the world's most popular open source database. With its proven performance, reliability and ease-of-use, MySQL has become the leading database choice for web-based applications, used by high profile web properties including Facebook, Twitter, YouTube, Yahoo! and many more. Oracle drives MySQL innovation, delivering new capabilities to power next generation web, cloud, mobile and embedded applications.

⚙ Learn more at <http://www.mysql.com/>

⚙ MySQL supports the event financially



Once again, we are proud to have **O'Reilly** as one of our sponsors.

O'Reilly are the premier information source for leading-edge computer technologies and communicate the knowledge of experts through books, conferences, and web sites. Their books, sporting the iconic animals on the covers, occupy a treasured place on the shelves of the developers building the next generation of software. Their conferences and summits bring innovators together to shape the revolutionary ideas that spark new industries. From the Internet to the web, Linux, Open Source, and now peer-to-peer networking, O'Reilly puts technologies on the map.

⚙ Learn more at
<http://oreilly.com>

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trivago is the world's largest hotel search website, with over 900,000 hotels, 250 booking sites and 80 million monthly visitors. But trivago is more! With people from all over the world, trivago is an international IT company constantly implementing the newest technology. Over 150 IT specialists are currently working on the continuous development of the high-traffic metasearch engine.

Do you want to know more? Here's a little more insight into our world of IT: PHP 5.4 at it's best, handmade on FreeBSD Javascript in browser and back-end Symfony2, Twig, Twitter Bootstrap, jQuery, Backbone and much more Storage facilities: MySQL Percona Server, TokuDB, Redis, Memcached, Varnish, InfluxDB, Solr, Kafka "Big Data" areas: Java, Hadoop MR, Hive, Pig & Co

⚙ Learn more at
<http://www.trivago.com>

⚙ trivago supports the event financially

A SPECIAL THANKS TO ...!



The Université Libre de Bruxelles is a French-speaking university in Brussels, Belgium. It has about 20,000 students. ULB has hosted FOSDEM (and OSDEM before it) since the beginning of time.

Cercle Informatique, ULB is a group of ULB students who help the FOSDEM team liaise with the university administration.

The **FOSDEM Team** spends a lot of free time throughout the year organising this great event. Without them there would be no FOSDEM.

HELP US MAKE FOSDEM BETTER

Tear off this page and drop it in the feedback box at the Infodesk on your way out. Alternatively, send email to feedback@fosdem.org if you prefer to keep your booklet intact.

Ideas, suggestions, comments, motivating words, criticism, . . .

