

[OpenAPP: OpenAPP: OpenAPP](#)  
[OHloh: OpenAPP: OpenAPP](#)  
[OpenAPP: OpenAPP: OpenAPP](#)  
[OpenAPP: OpenAPP: OpenAPP](#)  
[OpenAPP: OpenAPP: OpenAPP](#)

# *Master on Free Software 2013/2014*

## *URJC*



*Amal Roumi*





Ecallypus

Rank	Category	Value	Score	Weight
1	Performance	3.01	3.01	1.0
2	Reliability	3.43	3.43	1.0
3	Scalability	3.46	3.46	1.0
4	Security	3.59	3.59	1.0

OpenNebula

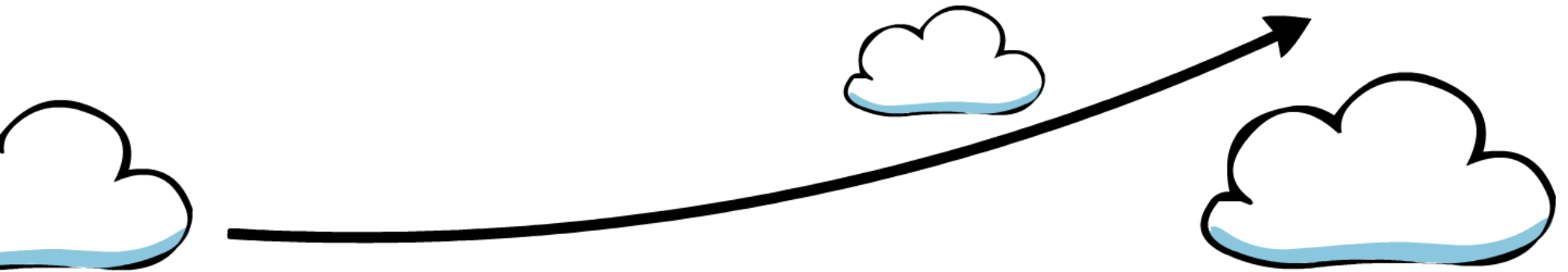
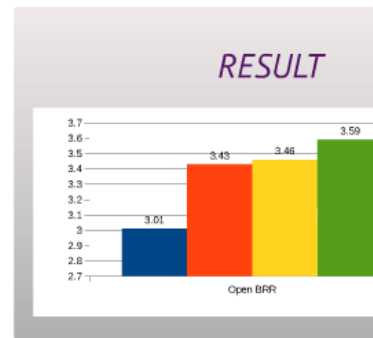
Rank	Category	Value	Score	Weight
1	Performance	3.01	3.01	1.0
2	Reliability	3.43	3.43	1.0
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Apache Cloud Stack

Rank	Category	Value	Score	Weight
1	Performance	3.01	3.01	1.0
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Open Stack

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# Cloud Computing evaluation

- OpenBRR, <http://www.openbrr.org>
- My classmate spreadsheet, <https://github.com/MSWI-PROJ-FV-2013-2014/prodev.git>
- Ecallypus web page, <https://www.ecallypus.com/>
- CVSAAnaly, <https://github.com/MetriesGrimolte/CVSAAnaly>
- Oklob.net, <http://www.oklob.net>

Cloud Computing is the practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer.

## *Cloud Computing Characteristics*

Cloud computing requires searching for a cloud provider look for :

- Elasticity and scalability.
- Self-service provisioning.
- Standardized interfaces.
- Billing and service usage metering.

# EUCALYPTUS

Eucalyptus is open source software for building AWS-compatible private and hybrid clouds.

Infrastructure as a Service (IaaS) is enabled with the private cloud by abstracting the available heterogeneous compute, network, and storage resources. Eucalyptus creates an elastic resource pool that can dynamically scale up or down depending on application workload demands. Through a partnership with Amazon Web Services™ (AWS).

Eucalyptus maintains the strongest API compatibility, empowering users to shift workloads between AWS and Eucalyptus environments.

*Eucaly*

- Has had 84,199 co
- Representing 1,3
- Is mostly written
- With stable Y-O-

# *FEATURES*

- AWS API Compatibility with EC2, EBS, S3, IAM, Auto Scaling, Elastic Load Balancing, and CloudWatch
- Supports AWS Ecosystem
- User Console with Hybrid Cloud
- Management
- Role-Based Access Management
- Quota Management and Accounting
- Resource Tagging
- Customizable Instance Types
- 
- Network Management, Security Groups,
- Traffic Isolation
- KVM Hypervisor Support
- Microsoft Windows and Linux Guest OS



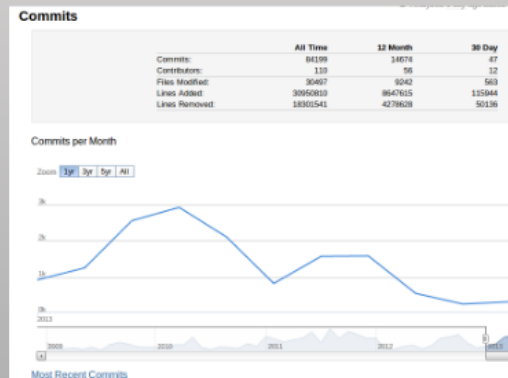
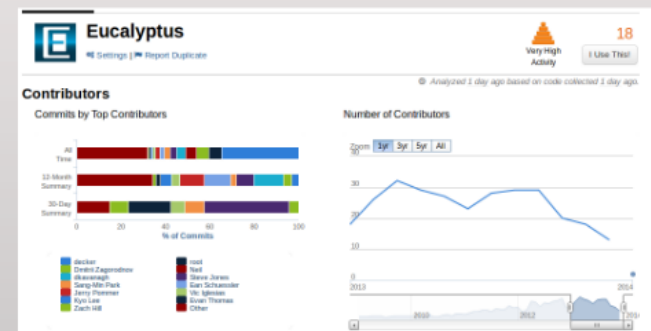
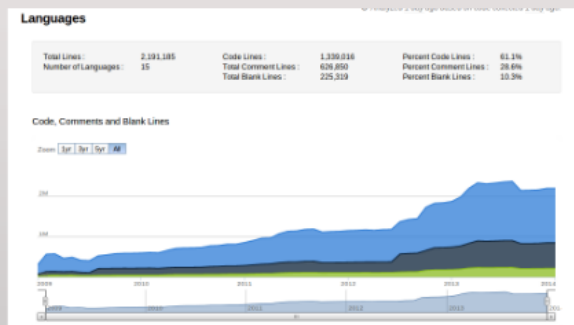
# *Ohloh*

Ohloh is a free public directory of OS software and people. Some metrics present in Ohloh site are provided by Ohloh specific tools and others are provided by Ohloh users. Ohloh owned and operated by BlackDuck Software a consulting company specialized in gathering and providing information about open source software projects.

## *Eucalyptus in Ohloh -1*

- Has had 84,199 commits made by 110 contributors
- Representing 1,338,986 lines of code.
- Is mostly written in Java
- With stable Y-O-Y commits

## Eucalyptus in Ohloh -2





## Eucalyptus

⚙ Settings | 🚩 Report Duplicate



Very High  
Activity

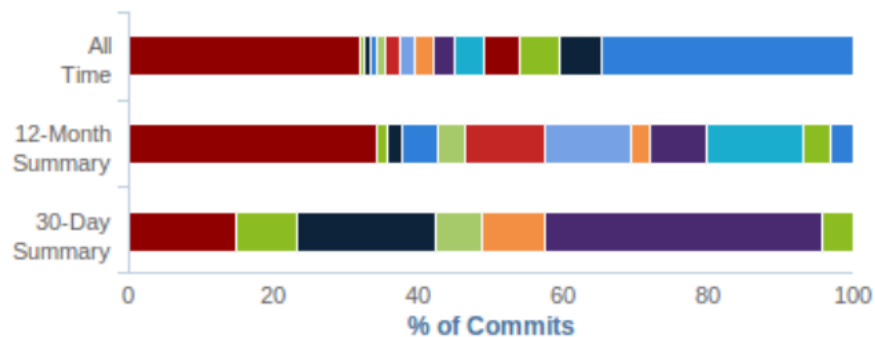
18

I Use This!

🕒 Analyzed 1 day ago based on code collected 1 day ago.

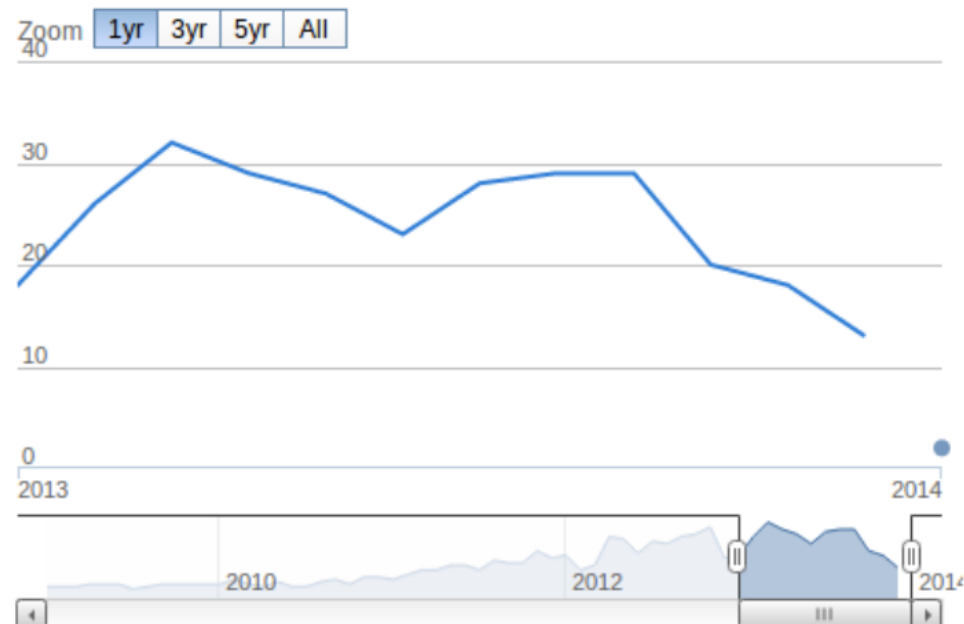
## Contributors

### Commits by Top Contributors



decker  
Dmitrii Zagorodnov  
dkavanagh  
Sang-Min Park  
Jerry Pommer  
Kyo Lee  
Zach Hill  
root  
Neil  
Steve Jones  
Ean Schuessler  
Vic Iglesias  
Evan Thomas  
Other

### Number of Contributors

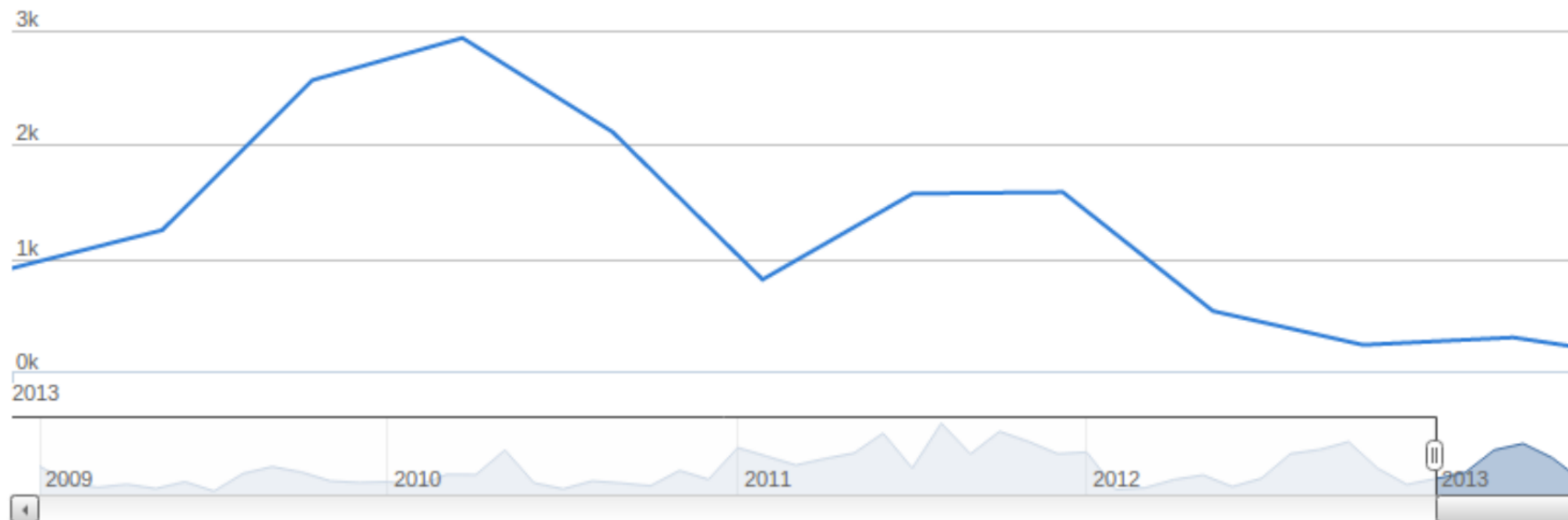


# Commits

	All Time	12 Month	30 Day
Commits:	84199	14674	47
Contributors:	110	56	12
Files Modified:	30497	9242	563
Lines Added:	30950810	8647615	115944
Lines Removed:	18301541	4278628	50136

## Commits per Month

Zoom **1yr** 3yr 5yr All



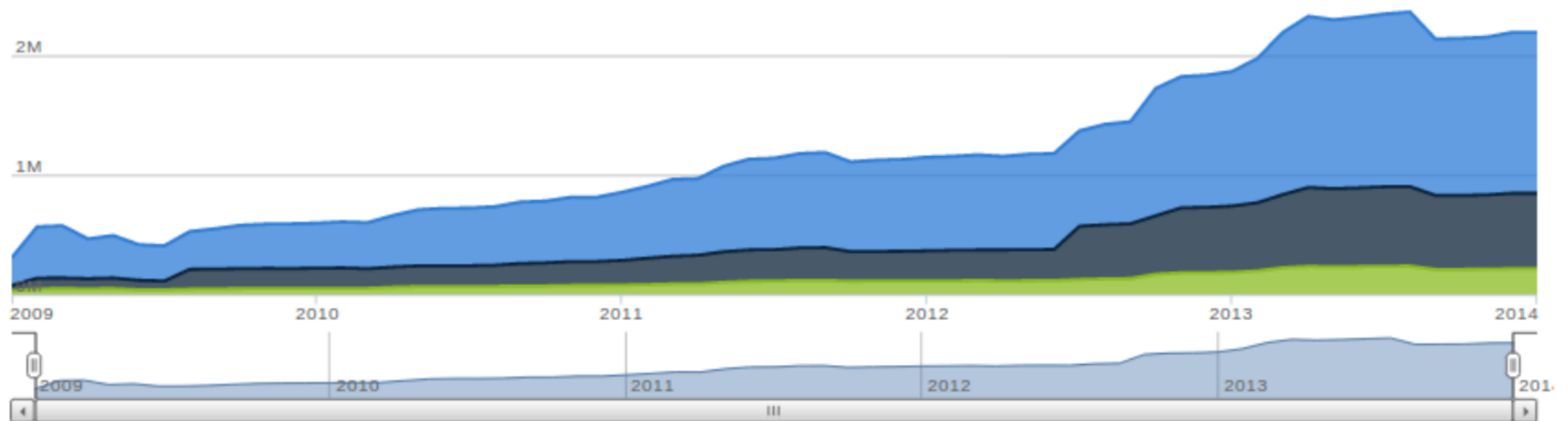
## Languages

Analyzed 1 day ago based on code collected 1 day ago.

Total Lines :	2,191,185	Code Lines :	1,339,016	Percent Code Lines :	61.1%
Number of Languages :	15	Total Comment Lines :	626,850	Percent Comment Lines :	28.6%
		Total Blank Lines :	225,319	Percent Blank Lines :	10.3%

### Code, Comments and Blank Lines

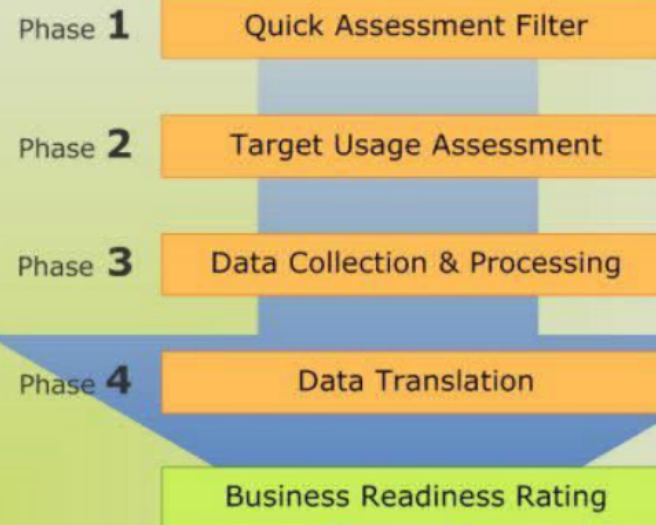
Zoom 1yr 3yr 5yr All



## *OpenBRR*

The Business Readiness Rating model (OpenBRR) is intended to help IT managers assess which OSS would be most suitable for their needs. Open Source users can also share their evaluation ratings with potential adopters, continuing the virtuous cycle and architecture of participation of open source.

## Using the Model – 4 Phases





## *Category and Metric chosen*

- Functionality
- Efficiency
- Support
- Documentation
- Community

- Functionality
- Efficiency
- Support
- Documentation
- Community



## *Metric weights*

Functionality	20.00%
Efficiency	25.00%
Support	20.00%

## *Metric weights*

Functionality	20.00%
Efficiency	25.00%
Support	20.00%
Documentation	15.00%
Community	20.00%

Rank	Category Title	Weight			Unweighte d Rating	Weighted Rating
1	Functionality			20.00%	4.8	0.96
	Metric Name	Raw Score	Weight	Unweighted Score	Weighted Score	
	Billing System	Yes	30.00%	5	1.5	
	Multi Platform Support	Yes	20.00%	5	1	
	Administrators Configuration System	Yes	20.00%	5	1	
	i18n	yes	10.00%	3	0.3	
	Quota Facilities	Yes	20.00%	5	1	

Rank	Category Title	Weight		Unweighte d Rating	Weighted Rating
4	Documentation	15.00%		4.5	0.68
	Metric Name	Raw Score	Weight	Unweighted Score	Weighted Score
	Documentation Update	Yes	50.00%	4	2
	Number of contributors to documentation	-34	50.00%	5	2.5
Rank	Category Title	Weight		Unweighte d Rating	Weighted Rating
5	Community	20.00%		3	0.6
	Metric Name	Raw Score	Weight	Unweighted Score	Weighted Score
	Mean commits / developer last month		40.00%	4	1.6
	Percent of files touched by only one develop	61.02%	20.00%	1	0.2
	Community growth (commit number variati	4.4	40.00%	3	1.2

Rank	Category Title			Weight	Unweighte	Weighted
2	Efficiency			25.00%	d Rating	Rating
					3	0.75
	Metric Name		Raw Score	Weight	Unweighted Score	Weighted Score
	Performance Testing and Benchmark Report		Yes	50.00%	3	1.5
	Performance Tuning & Configuration		50.00%		3	1.5
Rank	Category Title			Weight	Unweighte	Weighted
3	Support			20.00%	d Rating	Rating
					3	0.6
	Metric Name		Raw Score	Weight	Unweighted Score	Weighted Score
	Company Support		one	100.00%	3	3

## *Eucalyptus*

Rank	Category Title	Weight	Unweighte d Rating	Weighted Rating
1	Functionality	20.00%	4.8	0.96
2	Efficiency	25.00%	3	0.75
3	Support	20.00%	3	0.6
4	Documentation	15.00%	4.5	0.68
5	Community	20.00%	3	0.6



## Apache Cloud Stack

Rank	Category Title	Weight	Unweighted Rating	Weighted Rating
1	Functionality	20.00%	4.4	0.88
2	Efficiency	25.00%	3	0.75
3	Support	20.00%	3	0.6
5	Community	20.00%	2.25	0.45

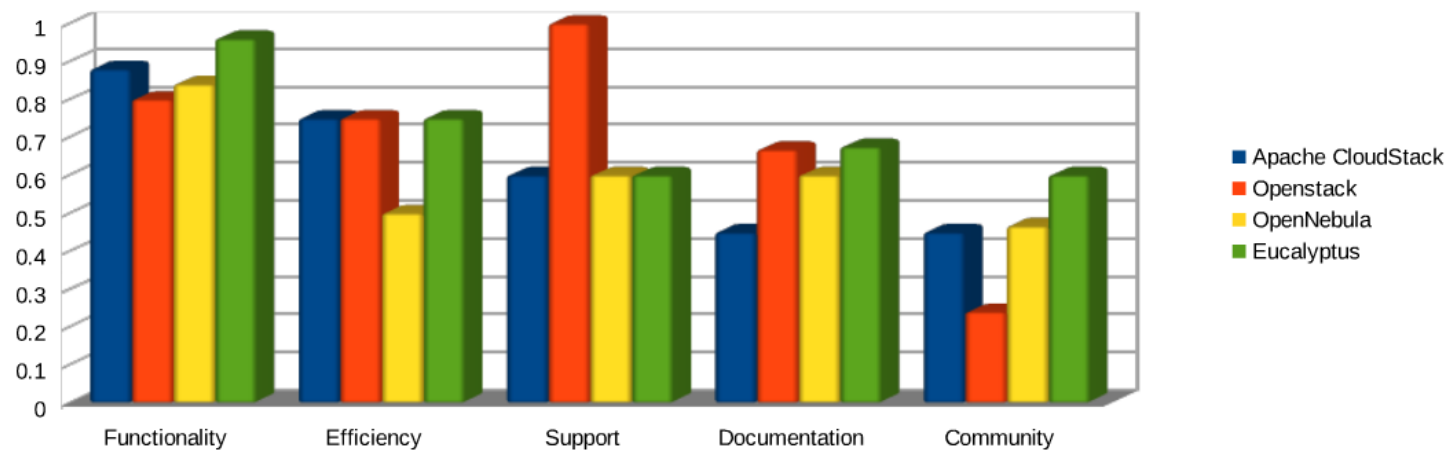
## Open Stack

Rank	Category Title	Weight	Unweighte d Rating	Weighted Rating
1	Functionality	20.00%	4.00	0.8
2	Efficiency	25.00%	3.00	0.75
3	Support	20.00%	5.00	1
4	Documentation	15.00%	4.45	0.67
5	Community	20.00%	1.20	0.24

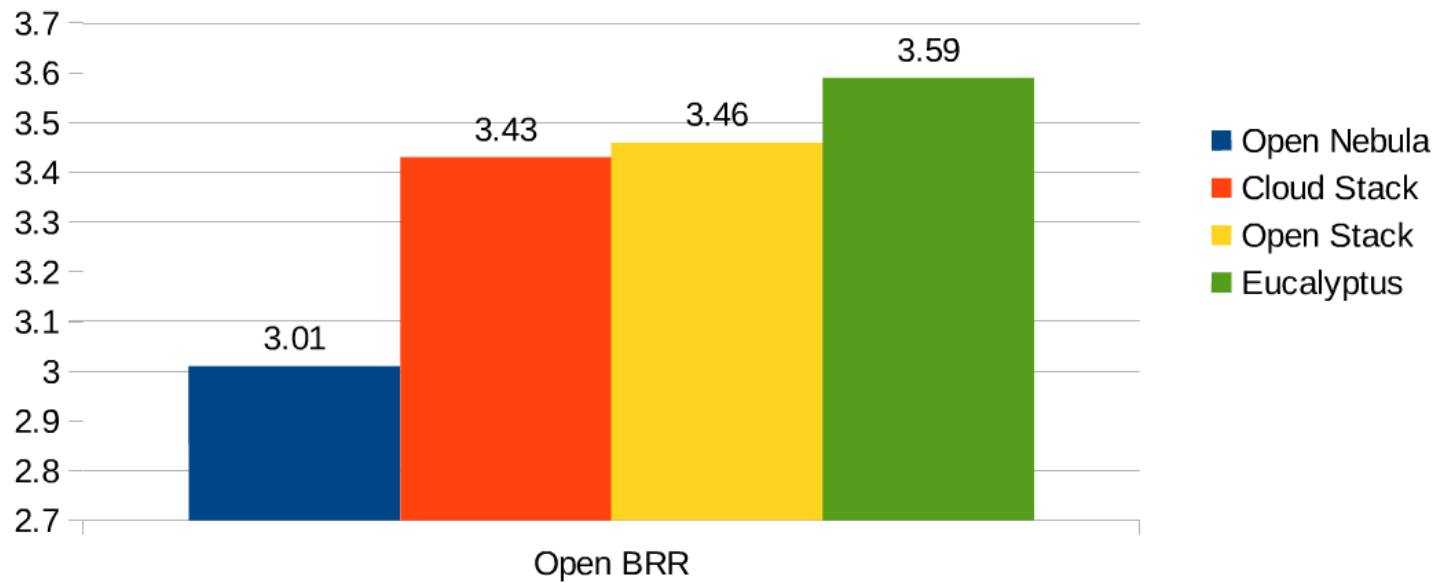
# OpenNebula

Rank	Category Title	Weight	Unweighted Rating	Weighted Rating
1	Functionality	20.00%	4.2	0.84
2	Efficiency	25.00%	2	0.5
3	Support	20.00%	3	0.6
4	Documentation	15.00%	4	0.6
5	Community	20.00%	2.33	0.47

## *OpenBRR Rating*



# RESULT



- OpenBRR, <http://www.openbrr.org>
- My classmate spreadsheet ,<https://github.com/MSWL-PROJ-EV-2013-2014/projev.git>
- Eucalyptus web bage [https://www.eucalyptus.com\](https://www.eucalyptus.com/)
- CVSAnaly <https://github.com/MetricsGrimoire/CVSAAnaly>
- Ohloh.net <http://www.ohloh.net>