

How Does an Open IBM i Platform Enable Success for My Business



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IBMCHAMPION 

 @ericjooka

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Agenda



- OSS
- IBMiOSS

OSS

Open Source Software



OSS



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what is open source?

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The term "open source" refers to something people can modify and share because its design is publicly accessible.

The term originated in the context of software development to designate a specific approach to creating computer programs. Today, however, "open source" designates a broader set of values—what we call "[the open source way](#)." Open source projects, products, or initiatives embrace and celebrate principles of open exchange, collaborative participation, rapid prototyping, transparency, meritocracy, and community-oriented development.

What is open source software?

Open source software is software with source code that anyone can inspect, modify, and enhance.

"Source code" is the part of software that most computer users don't ever see; it's the code computer programmers can manipulate to change how a piece of software—a "program" or "application"—works. Programmers who have access to a computer program's source code can improve that program by adding features to it or fixing parts that don't always work correctly.

WHAT IS OPEN SOURCE?
WHAT IS OPENSTACK?
INTRO TO DOCKER
WHAT IS OPEN EDUCATION?
WHAT IS OPEN HARDWARE?
WHAT IS OPEN GOVERNMENT?
WHAT IS OPEN GAMING?

2015 AVAILABLE NOW
OPEN SOURCE
YEARBOOK

Open Source Software



- Software with source code that anyone can inspect, modify, enhance

Open Source Software



- Software with source code that anyone can inspect, modify, enhance
- The opinions expressed on this website are those of each author, not of the author's employer or of Red Hat

Open Source Initiative



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Users



Open source software is software developed by and for the user community. Discover the wide variety of open source applications, from productivity applications to calendaring or email software, and learn more about the benefits of personal use. We'll also help you find peers and communities to support your interests.

Developers



Open source projects provide tremendous opportunities for developers to share and learn through collaboration. Find colleagues for your project or join an existing effort. Contributions aren't limited to code, successful open source projects need a diverse range of skills.

Business



Driving innovation requires optimizing how a company creates, deploys & uses software assets. Find out how enterprises have realized the promise of open source: higher quality, greater reliability, more flexibility, lower cost, and an end to predatory vendor lock-in.

Non-Profit



Whether serving as a foundation in support of an open source software project or harnessing open source infrastructure for day-to-day operations in support of any mission, learn how the open source ethos of contribution & community helps make life for NPO & NGO staffers easier.

Education



Many of the world's most successful open source projects have their roots in the academy. Participation extends beyond adoption and development, and now includes a wide variety of academic programs and research. Discover how your institution can benefit from open source software.

Government



Governments around the globe recognize the value of open source as both a technology solution delivering value to the public they serve as well as an approach for development returning tax-payer investments back to the society they represent.

Open Source Initiative



Open Source Initiative



- *To promote and protect open source...*
- A global non-profit
- The Open Source Initiative (OSI) protects and promotes open source software, development and communities
- Championing software freedom in society through education, collaboration, and infrastructure
- Stewarding the Open Source Definition (OSD)
- Preventing abuse of the ideals and ethos inherent to the open source movement

Open Source Initiative

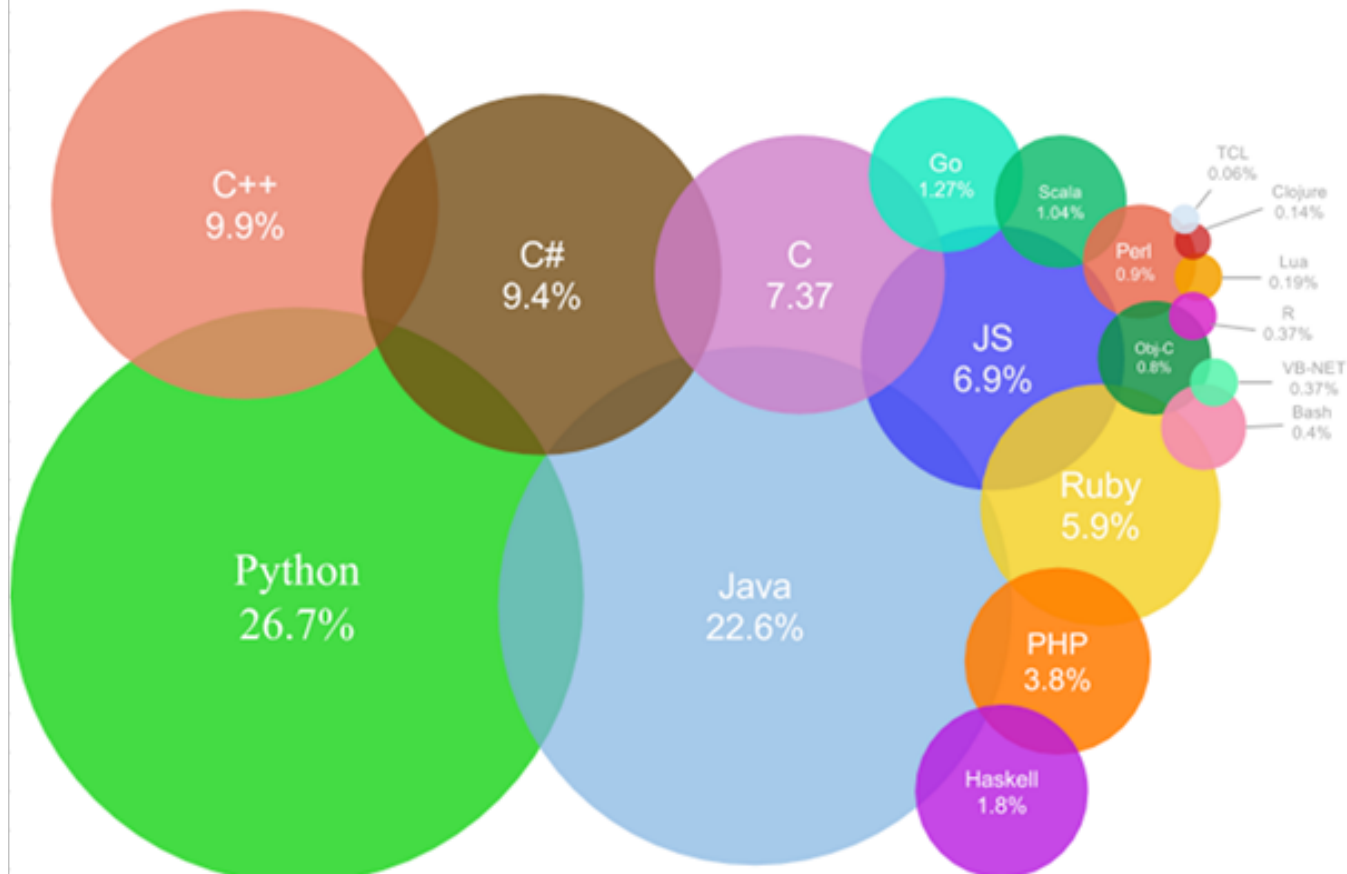


- Software that can be freely used, changed, shared (in modified or unmodified form) by anyone
- Open source software is made by many people distributed under licenses that comply with the Open Source Definition

Open Source Software



codeeval: Most Popular Coding Languages of 2016



IBMiOSS

*Open Source Software
on IBM i*



IBMiOSS



- Started with code sharing and tips and tricks
 - Jon Paris and Susan Gantner
 - Scott Klement
 - Aaron Bartell
- Ruby ported to IBM i PASE
 - Pete Helgren

IBM and IBMiOSS



- 1998: Perl
- 1998: First open-source IBM i project was JTOpen
- 2001: Linux partitions hosted in PASE
 - SuSE, Turbolinux
- 2002: Apache HTTP server shipped
- No dates specified
 - OpenSSL
 - OpenSSH
 - Apache Tomcat
 - Samba

IBM and IBMiOSS on i5/OS V5R3



- 2006: Zend Core
- 2006: Zend Studio for i
- 2011: Zend Server for i
- 2011: Zend DBi

IBM and IBMiOSS on i5/OS V5R3



- 2006: Zend Core
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- 2011: Zend Server for i
- 2011: Zend DBi



IBM and IBMiOSS



- Vendors port and support



Portal

Portal

Portal



Course Management System



e-Commerce



Wiki



Bulletin Board



Content Management System



IBM and IBMiOSS



- 2010: POWER7 servers with POWERLinux Operating Systems
 - RedHat
 - SUSE
 - Ubuntu

- Big Endian
- Little Endian

IBM and IBMiOSS – CentOS spotted in the wild



- A community-driven free software effort
- Delivering a robust open source ecosystem

The screenshot shows the CentOS Project website. At the top, there is a navigation bar with the CentOS logo and links for GET CENTOS, ABOUT, COMMUNITY, DOCUMENTATION, and HELP. The main heading is "The CentOS Project". Below this, there is a paragraph describing the project as a community-driven free software effort. Another paragraph mentions expanding the availability of CentOS images across various vendors. A prominent orange button labeled "Get CentOS Now" is visible. The footer area is divided into three columns: "Around CentOS" with a news item about Johnny Hughes at cPanel 2016, "News & Events" with a news item about the CentOS Dojo in Brussels, and "Sponsorship" with a thank-you message to sponsors.

iCan – Dawn May February 2015



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IBM i ADMINISTRATOR DEVELOPER TRENDS TIPS & TECHNIQUES CASE STUDIES STORAGE PRODUCT NEWS ENDPGM

Blog

i Can *Technical Tips for i*


By Dawn May
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07/24/2017
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Open Source for IBM i - 5733OPS

February 25, 2015

IBM continues to bring more and more industry standard and open source technologies to IBM i. While IBM i has its own (easy-to-learn) interfaces and operating system implementation, it also has an extremely rich set of features that are industry standard as well as open source.

IBM started adding industry standard features to the system long ago—we've had a *nix file system for years (we call it the IFS). We've had POSIX programming interfaces for years. We've had an AIX runtime environment (PASE) for years. We've had support for the NetServer for years. We've had an open source Web server (Apache) for years. We've had SQL, Java and PHP for years. Of course, there's more—TCP/IP, SSH, SSL, FTP, Telnet, etc. ... —the list is long. The truth of the matter is that in today's world, you must embrace industry standards simply to exist.

What has made this so successful is that these are not "Do it Yourself" add-ons IBM—takes the time to incorporate these industry standards and open source solutions so they are integrated in the way that i clients expect. You can install and support them with LPPs and PTFs. You can work with jobs running these functions as you'd expect to be able to work with an IBM i job. These technologies can interact with traditional IBM i functions as well as DB2 for i.

To help make the delivery of open source solutions more friendly to the IBM i community, there is now a new licensed program option-5733OPS, Open Source for IBM i. This new LPO provides a way for IBM to deliver open source. The IBM i developerWorks page on [Open Source Technologies](#) is where you will find IBM publishing updates regarding this new option.

The first open source offering to be provided in this new LPO is [node.js](#). Node.js is an open source project based on Google

Links

- IBM i Knowledge Center
- IBM i developerWorks
- IBM i
- IBM i Resources
- Performance Management on IBM i
- Upgrade Planning and Future
- Software Support
- COMMON
- Blog of Blogs

Today's IBMiOSS from IBM



IBM and IBMiOSS



- Zend PHP
- PowerRuby
- 5733-OPS

Zend PHP



- Zend Server for i
 - Application server for PHP code
- Zend Studio for i
 - Eclipse-based development environment
- Zend DBi
 - MySQL implementation for IBM i
 - DB2 Storage Engine enables data storage in DB2

PowerRuby.com



- Freely available and commercially supported port of the Ruby language
- Includes Rails
- Includes native DB2 database driver – MySQL not necessary
- Integrates with XMLSERVICE for access to IBM i programs and objects

5733-OPS



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Wikis This Wiki Search

IBM i Technology Updates Log in to participate Following Actions

- IBM i Technology Updates
 - DB2 for i - Technology U...
 - General IBM i operating ...
 - Hardware and Firmware
 - Integration with BladeC...
 - Java on IBM i
 - Performance Tools
 - Web Integration on i
 - Systems Director for IBM i
 - Navigator
 - IBM i 7.1 - TR8 Enhance...
 - IBM i 7.2 - Base Enhanc...
 - Systems Management
 - IBM i 7.1 - TR9 Enhance...
 - IBM i 7.2 - TR1 Enhance...
 - Open Source Technologi...
 - How to obtain the new ...
 - Node.js
 - SAMBA on IBM i
 - Python
 - GCC
 - Git
 - Orion
 - Tools
 - Source Code

You are in: [IBM i Technology Updates](#) > [IBM i Technology Updates](#) > [Open Source Technologies](#) > [How to obtain the new Open Source for IBM i Product - 5733OPS](#)

How to obtain the new Open Source for IBM i Product - 5733OPS

Updated October 4, 2016 by [kadler](#) | Tags: *None*

Page Actions

Step 1: Install any requisite products

PASE

- PASE (SS1 option 33) is required for all 5733-OPS options.

5733-SC1

- Various options within 5733-OPS require zlib or OpenSSL to function which are provided by 5733-SC1
- For IBM i 7.1, you will need 5733-SC1 7.1. For IBM i 7.2 and up, you will need 5733-SC1 7.2
- Make sure to install the [latest SC1 PTFs](#) as well.

XMLSERVICE

- The Python, Node, ... language toolkits require XMLSERVICE to function.
- If you do not plan to use the toolkit, XMLSERVICE is not required, but it is recommended
- A version for XMLSERVICE is installed with latest HTTP PTF Group (see the [IBM i Preventive Service Planning page](#)) and installed in the QXMLSERV library.
- The latest PTF versions of the toolkit will default to using the QXMLSERV installation of XMLSERVICE. Alternatively, the toolkits can be configured to use an alternate XMLSERVICE installation. See [XMLSERVICE install documentation](#) for more details on installing and the toolkit documentation to configure the XMLSERVICE location.

Others

- Please see individual option pages for any other dependencies that option may have that is not listed here

5733-OPS



5733-OPS Option 1	Node.js v1
5733-OPS Option 2	Python 3
5733-OPS Option 3	CHROOT
5733-OPS Option 4	Python 2
5733-OPS Option 5	Node.js v4
5733-OPS Option 6	Git
5733-OPS Option 7	Tools
5733-OPS Option 8	Orion
5733-OPS Option 9	cloud-init
5733-OPS Option 10	Node.js v6
5733-OPS Option 11	Nginx
5733-OPS Option 12	TBD
5733-OPS Option 13	TBD
5733-OPS Option 14	TBD
5733-OPS Option 15	TBD

Node.js



- Server-side JavaScript
- Web development!
- JavaScript already widely used on the client side
- High Performance - designed to maximize throughput and efficiency
- More than 70,000 third-party extensions are available

Python



- A powerful general-purpose language
- Interpreted
- Easy for IBM i programmers to learn
- Number one introductory language in colleges in North America
- More than 85,000 third-party extensions are available

GCC and CHROOT



- Gnu Compiler Collection
 - Scripts to set up gcc and other popular build tools
- A real build environment
- Inside a "chroot"
 - Can use isolated, sandboxed versions of the build environment

git



- Open Source distributed version control system
- Source control for any language
- Powerful and flexible
- Hooks to perform custom actions when new code is integrated

nginx (engine X)



- HTTP and reverse proxy server
- Mail proxy server
- Generic TCP/UDP proxy server

Tools



- bash
- zip
- unzip

- Shellinabox (under consideration)

shellinabox - SSH terminal in a browser



```
Shell In A Box
https://9.5.54.241:4200
i5bchl8p1 login: jgorzins
jgorzins@i5bchl8p1's password:
$ pip3 install xlswriter
Collecting xlswriter
  Downloading XlsxWriter-0.9.3-py2.py3-none-any.whl (136kB)
    100% |#####| 143kB 186kB/s
Installing collected packages: xlswriter
Successfully installed xlswriter-0.9.3
$ npm install jshint
npm WARN deprecated minimatch@2.0.10: Please update to minimatch 3.0.2 or
higher to avoid a RegExp DoS issue
npm WARN deprecated minimatch@0.3.0: Please update to minimatch 3.0.2 or
higher to avoid a RegExp DoS issue
jshint@2.9.2 node_modules/jshint
├── strip-json-comments@1.0.4
├── exit@0.1.2
├── console-browserify@1.1.0 (date-now@0.1.4)
├── shelljs@0.3.0
├── minimatch@2.0.10 (brace-expansion@1.1.6)
├── cli@0.6.6 (glob@3.2.11)
├── htmlparser2@3.8.3 (domelementtype@1.3.0, entities@1.0.0, domhandler@
2.3.0, readable-stream@1.1.14, domutils@1.5.1)
└── lodash@3.7.0
$
```

Orion



- Web enabled editor for IFS development
- Rich git integration
- Targeting Node, Python and Modern RPG developers
- RPG syntax highlighter - RPG Free only (with SQL subset)

The screenshot shows a web browser window with the URL `i7adt06.torolab.ibm.com:8080/edit/edit.html#/file/test-Orion`. The browser's address bar includes a search field and navigation icons. Below the browser window is a dark-themed editor interface with a menu bar (File, Edit, View, Tools) and a toolbar. The editor displays a file named `PAYROLLFFG.RPGLE` with the following code:

```
1 // *****  
2 // PROGRAM NAME - Payroll  
3 // DESCRIPTION - Time reporting master file maintenance using  
4 // externally described workstation processing.  
5  
6 Dcl-F MSTDSP WORKSTN;  
7 Dcl-F EMPMST Usage(*Update:*Delete:*Output) Keyed;  
8 Dcl-F PRJMST Usage(*Update:*Delete:*Output) Keyed;  
9 Dcl-F RSNMST Usage(*Update:*Delete:*Output) Keyed;  
10 //
```

IBM and IBMiOSS Connectivity



- XML Service
- SQL Services
- JTOpen

XML Service



- Access to IBM i programs, service programs, shell commands, DB2
- Called locally or remotely
- Stateful or stateless
- Toolkits written for several languages

SQL Services



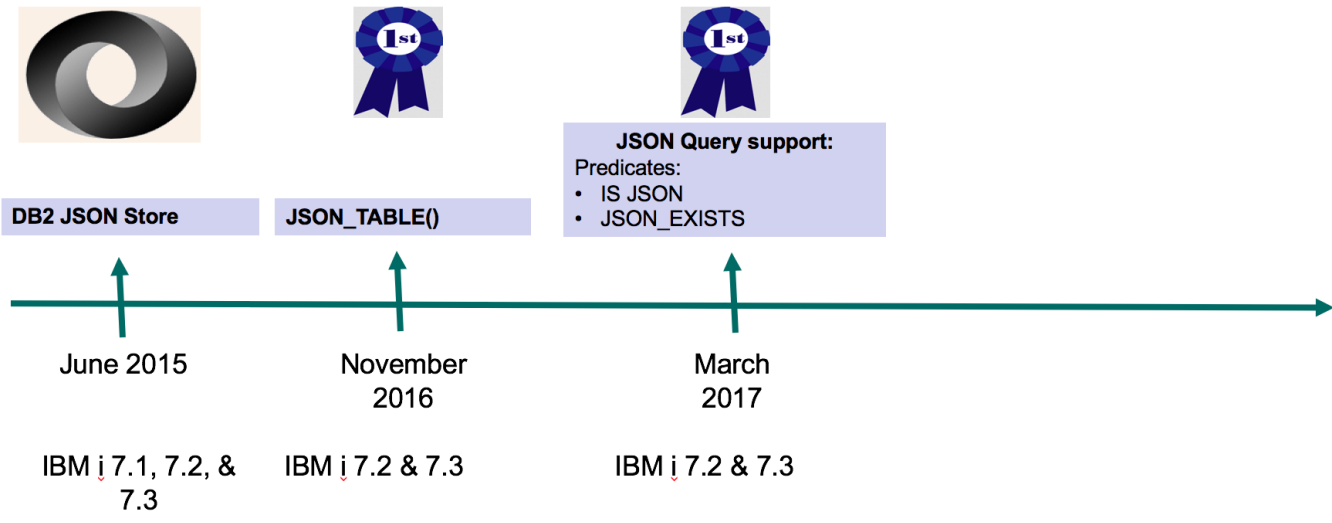
- Access system data through SQL functions
 - PTF
 - Security
 - Message Handling
 - Librarian
 - Work Management
 - Communication
 - Storage
 - Product
 - Spool
 - System Health
 - Journal
 - Java


JTOpen



- The Open Source version of the IBM Toolbox for Java
- Library of Java classes supporting the client/server and internet programming model to IBM i
- The classes can be used by Java applets, servlets, and applications to easily access IBM i data and resources


JSON support in DB2 for i



Power Systems  Welcome to the Wireless World


rsync

- Synchronize files and directories between systems
- Cross-platform
- Various techniques for determining if file needs update




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11

Power Systems  Welcome to the Wireless World

wget

- utility that lets you download files from the Internet or intranet locations.
- Supports:
 - HTTP, HTTPS, and FTP protocols
 - proxies
 - non-interactive use



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12


Power Systems  Welcome to the Wireless World

SQLite

- Zero-configuration SQL database engine
- Easy to use
- Useful for open source software that uses this technology.




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Power Systems  Welcome to the Wireless World

curl

- Both a command and a shared library
- Robust interaction with HTTP or FTP URL's
- Supports
 - HTTP, HTTPS, and FTP protocols
 - proxies
 - non-interactive use
 - advanced HTTP operations like HTTP POST and GET requests
 - FTP upload
 - user authentication
 - much more!



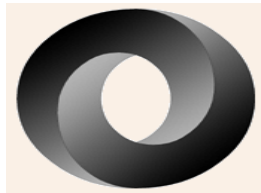
© 2010 IBM Corporation. All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

Major git enhancement

- Ability to perform a 'git clone' of an HTTP/HTTPS repository
- Makes interacting with GitHub or BitBucket much easier!

```
bash-4.3$ git -c http.sslVerify=false clone http://github.com/OSSILE/OSSILE
Cloning into 'OSSILE'...
remote: Counting objects: 1608, done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 1608 (delta 15), reused 0 (delta 0), pack-reused 1567
Receiving objects: 100% (1608/1608), 4.01 MiB | 1.57 MiB/s, done.
Resolving deltas: 100% (868/868), done.
Checking out files: 100% (253/253), done.
```

JSON support in DB2 for i



DB2 JSON Store

JSON_TABLE()

JSON Query support:
Predicates:
• IS JSON
• JSON_EXISTS



June 2015

November
2016

March
2017

IBM i 7.1, 7.2, &
7.3

IBM i 7.2 & 7.3

IBM i 7.2 & 7.3

How do you
engage?



Participate in the community



- Ask questions
- Give advice
- Share code, tips, tricks, etc

midrange.com



- A community covering a wide array of IBM i topics
- Mailing list: archive.midrange.com/opensource

midrange.com

LinkedIn IBM i OSS group



- Great starting point for the latest news and events.
- Large member base

[linkedin.com/groups/8531863](https://www.linkedin.com/groups/8531863)

A screenshot of the LinkedIn interface showing the IBM i OSS group page. The top navigation bar includes the LinkedIn logo, a search bar with the text "Search for people, jobs, companies, and more...", and an "Advanced" search button. Below the navigation bar, the group's profile is displayed with the group logo (a blue circle with an 'i' and the letters 'OSS' in green), the group name "IBM i OSS", and the member count "584 members". The navigation tabs "Home", "Profile", "My Network", "Learning", "Jobs", and "Interests" are visible above the group content.

LinkedIn IBM i OSS group



- Great starting point for the latest news and events.
- Large member base

[linkedin.com/groups/8531863](https://www.linkedin.com/groups/8531863)

The screenshot shows the LinkedIn interface for the IBM i OSS group. At the top left is the LinkedIn logo. To the right is a link to 'Back to LinkedIn.com' and a profile picture. Below this is a green navigation bar with 'My Groups' and 'Discover' links, and a search bar on the right. The main content area shows the group's logo (a green circle with 'i' and 'OSS'), the group name 'IBM i OSS', and '945 members'. On the right side of the group header, there are two buttons: 'Manage' (with a gear icon) and 'Member' (with a checkmark icon).

Ryver IBM i OSS team



- Forums, chat, links to social media
- Invite link:
- https://ibmiooss.ryver.com/application/signup/members/9tJsXDG7_iSSi1Q

Ryver IBM i OSS team



File Edit View History Bookmarks Tools Help

Ryver: ibmiOSS

https://ibmiOSS.ryver.com/index.html#forums/1000118

5733ops

OSS on IBM i

SEARCH

NOTIFICATIONS 2

POST STREAM

OPEN FORUMS (25)

- Tweets & emails
- PASE development
- Swift
- Projects & repos
- Introductions
- Python
- Links
- Announcements
- Ryver?
- CPF0000
- Tools
- Experts
- IBM Open
- Sandbox systems

Announcements +announcements

CHAT POSTS

Search...

Thursday, July 14th 2016

Bill Gravelle Thu 4:32pm
added post [Up- \(or down-\) vote this Post](#)

Saturday, July 16th 2016

Admin Sat 6:49pm
added post [We need volunteers to develop a Ryver QuickStart and Community Guidelines](#)

Tuesday, July 19th 2016

Admin Tue 12:07pm
added post [Bleeding Edge Web Meetup](#)

Friday, July 22nd 2016

Admin Fri 8:39am
added post [Stack Overflow Documentation \(beta\)](#)

Thursday, July 28th 2016

Admin Thu 8:41am
added post [Core Contributors?](#)

Admin Thu 10:41am
added post [Live #IBMiOSS Panel conversation with the team from Rochester](#)

@IBMJesseG

Send

- Jesse Gorzinski
- Kevin Adler
- Mike@Prodata
- Holger Scherer
- Buck Calabro
- Jon Paris
- Jeff Berman

gitter chat at Club Seiden



- gitter.im/Club-Seiden/IBMiOSS_Public

GITTER

Where communities thrive

FREE FOR COMMUNITIES

JOIN OVER 500K PEOPLE
JOIN OVER 50K COMMUNITIES
CREATE YOUR OWN COMMUNITY

EXPLORE MORE COMMUNITIES

Club-Seiden/IBMiOSS_Public *General chatroom for people interested in OSS on IBM i. OSS for RPG...*

a proof reader 😊

Bill Gravelle @starbg Jul 28 12:35
Live #IBMiOSS Panel conversation with the team from Rochester
Focusing entirely on Open Source Software/Solutions on IBM i for Power Systems servers. We'll hear about recent updates, maybe some work-in-process and possibly future surprises from Tim Rowe (@TimRowe_IBMi), Jesse Gorzinski (@IBMJesseG) and Kevin Adler (@kadler_ibm).
We plan to be experimenting with some new browser-based technology for this event: highly interactive and more engaging for all participants (both live and recorded sessions) - able to incorporate webcam video for anyone interested, embedded chat with public and/or direct messages, structured questions with up-voting capability and "jump to answer" feature for instant access (after the event).
Watch this space for your invitation link!
PS: The event is planned for 2August, Tuesday at 1100 CDT (UTC -5).

Alan Seiden @alanseiden Jul 28 12:44
Thanks, @starbg ! Sounds good.

Bill Gravelle @starbg Aug 01 17:06
The event is tomorrow, 2August, Tuesday at 1100 CDT (UTC -5).
Here's your invitation: <https://www.crowdcast.io/e/IBMiOSS2Aug16>

Search...

People

DETAILS

Club Seiden forums



- <http://club.alanseiden.com/community/>

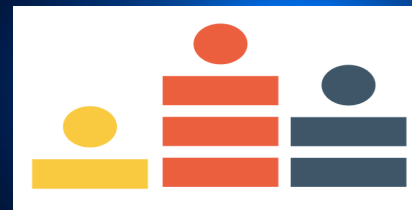
The screenshot shows the Club Seiden forums website. The header includes the logo "Club Seiden" with the tagline "Where open source and IBM i meet", a search bar, and navigation links for "Home", "Forums", "Learning Hall", "Gitter.IM Chat", and "Members". A "Log in or Sign up" link is in the top right. Below the header, there are search and recent posts filters. A main navigation bar shows "Home" and "Forums". A green "Sign up now!" button is prominent. A notice box states: "Club Seiden uses Gitter chat for day to day discussion. If you are a member of Github you just need to ask to join our Github organization: <https://github.com/club-seiden> and join us on the Gitter.IM chat page!". The main content area is titled "Club Seiden" and "IBM i". It features a table of forum topics:

Topic	Discussions	Messages	Latest Post
Silly Questions The place to ask that question you think you should know the answer to, but just don't right now.	1	1	PHPRunner Enterprise on iSeries... James R. Martin, Jul 22, 2017
DB2	3	7	Job Number corresponding to P... m.marcosdomenech, May 8, 2017
PHP Toolkit	13	64	Memory leak under PHP 7

On the right sidebar, there is a "Members Online Now" section showing "Total: 1 (members: 0, guests: 1, robots: 0)" and a "New Posts" section with three entries:

- Laravel on IBM i**
Latest: James Hodgkinson, Sep 19...
Laravel
- Memory leak under PHP 7**
Latest: Scott Rycroft, Sep 6, 2017
PHP Toolkit
- Toolkit request failed. Review the ...**
Latest: Scott Rycroft, Aug 29, 2017
PHP Toolkit

Slack



A screenshot of a Slack interface. On the left is a sidebar with the workspace name 'IBM' and a list of channels including '# general' and '# random'. The main window shows the '# general' channel with a notification banner: '40+ new messages since 6:09 PM on August 14th'. The message content reads: 'To do that, we're migrating this channel to a channel where you can talk to all the IBM Champions across business areas. You'll be in two channels by default: #champ-general, which will include all IBM Champions and all IBM Champion program managers; #champ-power, which will include all IBM Champions for Power and the Champion program managers. We will have channels for the other areas, including #champ-analytics, #champ-cloud, #champ-ics and #champ-cld-integration. You won't be added to those by default, but you can request to join them at any time. Here's what to expect: 1. You'll get an email inviting you to join the new Slack channels. That email will go to the IBM Champion email we have on file for you. 2. You'll click to join the new Slack. (Note: you're first; the other Champions will be migrated over the next 2 weeks) 3. We'll be working behind the scenes to try to migrate conversations as appropriate. 4. Then we'll shut down this "old" Slack.' A date separator 'Wednesday, September 20th' is visible. Below are two messages: 'Christian Massé 2:42 AM joined #general.' and 'libby.ingrassia 11:04 AM Hi all, just a reminder that if you should move over to the NEW Champion Slack as discussed above. This one will be going away in a week or so. Let me know if you have a problem or didn't get the invitation. Also: Don't forget that the Think call for speakers closes today! I see 66 total sessions from Champions. You check with me to see if I found yours and check in your speaker profile to be sure it submitted.' The bottom of the interface shows a message input field with a plus sign, the text 'Message #general', and icons for mentions and emojis.



- #IBMiOSS
- #IBMi

Engage!

crowdcast.io/e/IBMiOSS2Aug16



Live #IBMiOSS Panel conversation with the team from Rochester

Tue, Aug 2, 2016 12:00 PM America/New_York



Bill Gravelle

Follow

Options



bitbucket.org/ibmi/opensource/wiki/Home



IBMi / opensource / opensource Clone wiki

Wiki View History

[opensource / Home](#)

IBM i Open Source Aggregation

This is a publicly editable wiki. Please add links to categories below. This is for **aggregating** all things IBM i Open Source so we can easily find what is going on.

Table Of Contents

- [IBM i Open Source Aggregation](#)
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Liam Allan, Software Developer and Student Innovation Award recipient at COMMON 2016

September 2016 | by Jessica Tam



Liam Allan received the Student Innovation Award at the COMMON 2016 Annual Meeting. Photo by Ian Cumming

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159 commits 1 branch 3 releases 2 contributors MIT

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Liam Allan Hello LISUG Latest commit 506bba1 on May 17

QSOURCE	Hello LISUG	4 months ago
.gitignore	Create log file during build	5 months ago
LICENSE	Update LICENSE	a year ago
README.md	Update README.md	10 months ago
build.txt	Add RELICBLD and fix minor bugs	10 months ago

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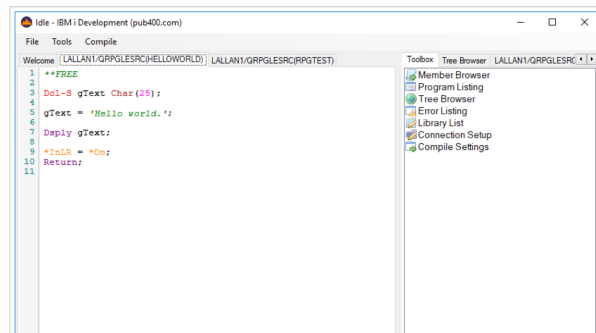
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