



The Future of z Systems Documentation

IBM Knowledge Center and Beyond

Susan Shumway

Kirsten Brunner McDonald

Cheryl Loughlin

Geoff Smith



Information overload and the tools we use

- Agile and DevOps methodology
- IBM Design Thinking
- IBM Knowledge Center
- IBM Watson and cognitive computing
- Hot Topics, Redbooks, and Communities





Agile and DevOps Methodology

Susan Shumway, chalensk@us.ibm.com

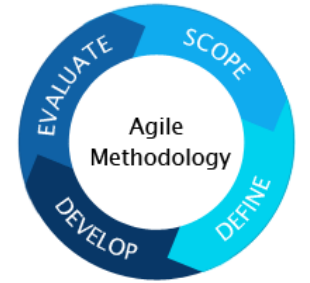


How we are using Agile and DevOps methodologies

- Agile
- DevOps



What is Agile?



Defined as a project management alternative to traditional “waterfall” development, characterized by:

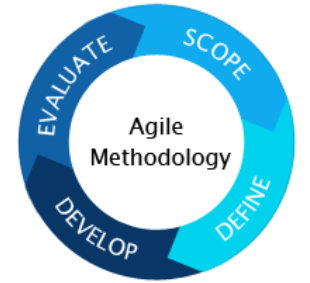
- Incremental, iterative work cadences, known as sprints or iterations
- Regular assessment of the direction of a project throughout the development lifecycle
- Project redirection whenever deemed necessary
- Potential delivery of a consumable product increment at the end of a sprint/iteration
 - “Continuous delivery” = software can be reliably released at any time. Every change is deployable to production, but a team **may choose to not deploy it.**

What is Agile? (cont.)



- Around for decades
 - “Agile methodology” originally introduced in the late 1970s
 - "Manifesto for Agile Software Development" first proclaimed in 2001
- Successfully implemented by many top companies (Google, Facebook, PayPal), for example:
 - Agile transformation at **Nationwide** led to **50% improvement in code quality**
 - Agile transformation at **Cars.com** led to **7.5x more releases per year**
 - Agile transformation at **Cap Gemini** led to **25% faster to market**
 - Agile transformation and SAFe adoption at **Telstra Corporation** led to **fewer mistakes**
- z/OS development use = ~ 5 years

How does Agile impact the z Systems information?



Information for a function is written in the same sprint/iteration as the coding and testing of the function, not long afterward like in previous waterfall models.

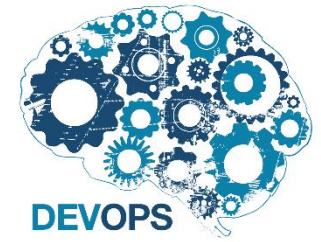
This promotes:

- More efficient workload balancing
 - (A piece of work is completed, then everybody moves on to the next one)
- Faster turnaround of and more complete technical reviews
 - (Everybody works on the same piece of work at the same time)
- Greater accuracy of the information
 - (Function is fresh in everybody's minds)

= Higher quality of the end product



What is DevOps (DEVELOPMENT OPERATIONS)?

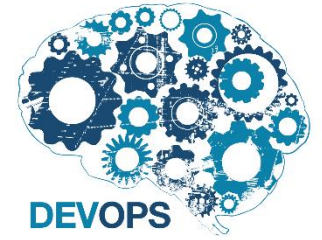


Defined as the practice of operations and development engineers participating together in the entire service lifecycle, from early design of the product through service of the shipped product.

All disciplines (design, code, documentation, test, build, support, etc.) are involved, with equal influence, at all stages of product development.



How does DevOps impact the z Systems information?



The product documentation team members are involved in all aspects of product development.

This promotes:

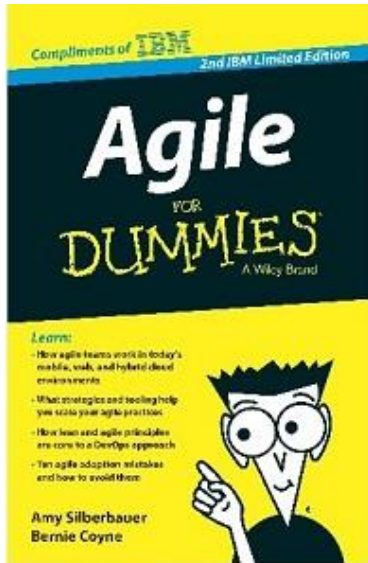
- Greater understanding of the product
 - (Everybody provides input on the design and participates in testing)
- Greater understanding of what we need and what the stakeholder (test, user, etc.) after us needs
 - (Everybody communicates efficiently and continuously)

= Higher quality of the end product



Agile resources

- IBM Lean and Agile development: ibm.com/ibm/devops/us/en/agile/
- IBM Lean and Agile case studies and additional resources: ibm.com/software/rational/agile/casestudies/



- Agile for Dummies (IBM edition): www.amazon.com/Agile-Dummies-IBM-Limited/dp/111830506X
- DevOps for Dummies (IBM edition): www.ibm.com/ibm/devops/us/en/resources/dummiesbooks/





IBM Design Thinking

The future of information delivery

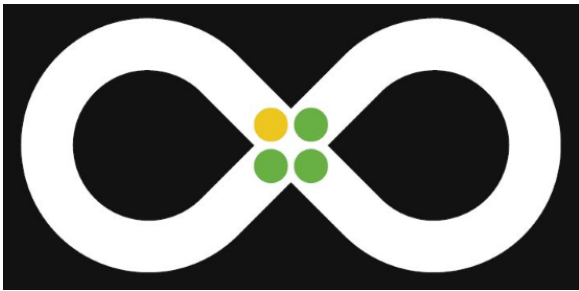
Kirsten Brunner McDonald, kirsten@us.ibm.com

Cheryl Loughlin, cheryllo@us.ibm.com



IBM Design Thinking





The Design Loop: Human-centered outcomes at speed and scale



- **A focus on user outcomes.** There are many ways to prioritize work and define goals. If you choose to prioritize the needs of the people who will use your solution, IBM Design Thinking is for you.



- **Multidisciplinary teams.** When you need to move fast, there's no time for waterfall processes. You need a great multidisciplinary team. If you have one, you're ready to go. Otherwise, help your leadership understand the gap.



- **Everything is a prototype.** Everything—even in-market solutions. When you think of everything as just another iteration, you're empowered to bring new thinking to even the oldest problems.



Mission of IBM Design Thinking

www.youtube.com/watch?v=RcOtXkihBXU



Keys to IBM Design Thinking

Three of the most important techniques for scaling design thinking to complex teams and projects:



- **Hills:** Align complex teams around a common understanding of the most important user outcomes to achieve.



- **Playbacks:** Bring your extended team and stakeholders into the loop in a safe, inclusive space to reflect on the work.



- **Sponsor Users:** Collaborate with real users to increase your speed and close the gap between your assumptions and your users' reality.



Design Thinking is everywhere

Design thinking is a necessary skill in today's business culture.

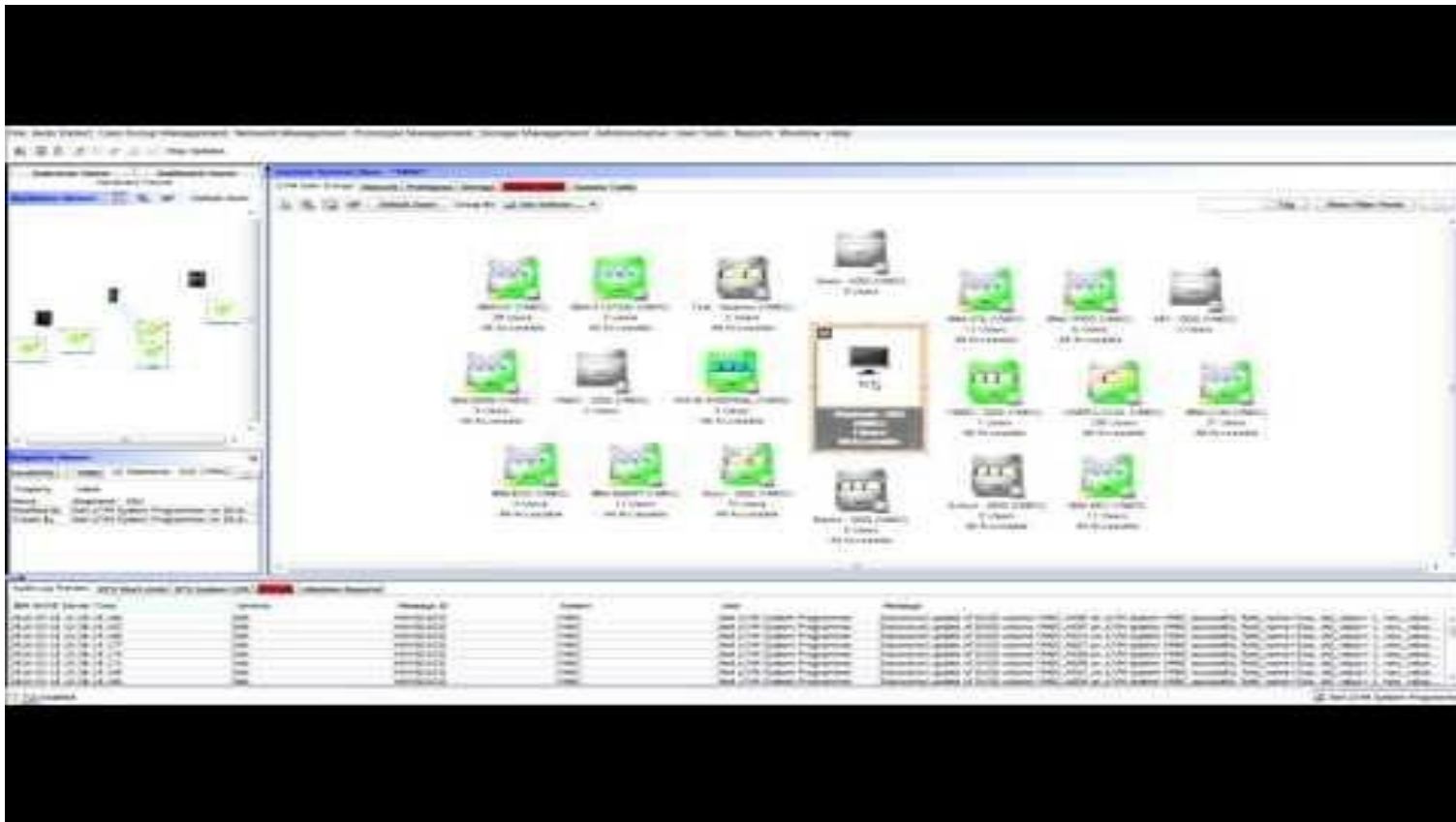
Some examples of critical applications for design thinking:

- Developing new products
- Developing new features for an existing product
- Enhancing the look and feel of a product or updating a website
- Guiding strategic direction
- Solving difficult problems
- Helping decision-makers with tough choices
- Building cognitive solutions with IBM Watson using Bluemix



IBM Design Thinking in action

www.youtube.com/watch?v=EVhwFpqOpJs



Design resources

To learn more about IBM Design Thinking from IBM and other perspectives:

- **IBM Design Thinking Resources:** ibm.com/design and ibm.com/design/research
- **Transforming z Systems**, by Kirsten McDonald and Iris Rivera at the 2016 ECC Conference: ecc.marist.edu/documents/367507/562924/BrunnerIBM+DT+KBM+IMR+Transforming+z+ECC+2016.pdf
- **“IBM’s Design-Centered Strategy to Set Free the Squares”** - Steve Lohr, New York Times
- [Design at Wired.com](http://Design.at.Wired.com)
- **Stanford Design School: Crash Course** dschool.stanford.edu/dgift/





IBM Knowledge Center

Geoff Smith, gksmith@us.ibm.com



z/OS ongoing information challenges

- Better search – the ability to find the right information quickly and easily
- Currency – provide real time updates to large mainframe libraries
- Skills – people who are new to the platform need to be productive quickly
- Bridging the UI divide – Green Screen versus Touch Screen
 - z/OSMF simplifies tasks and eliminates documentation
 - Workflows simplify tasks and eliminate documentation



General review of IBM Knowledge Centers

- Developed to replace information centers and bring all IBM documentation under one website.
- KC flavors:
 - IBM Knowledge Center Hosted – Delivered on the internet
 - IBM Knowledge Center for z/OS Customer Install (new element of z/OS in V2R2)
- Differences:
 - Hosted versions leverage IBM login to let you save searches and provide more of a personalized user experience.
 - Knowledge Center Customer Install (“KC-CI”) provides a standalone KC but it does not include personalization functions.
- IBM Knowledge Center versions:
 - The current version is 2.0: ibm.com/support/knowledgecenter/



IBM Knowledge Center for z/OS (KC4z)

KC4z serves IBM product publication content to web browser clients from the z/OS server system.

KC4z provides the ability to display, navigate and search content in a manner similar to the Knowledge Center hosted on ibm.com.

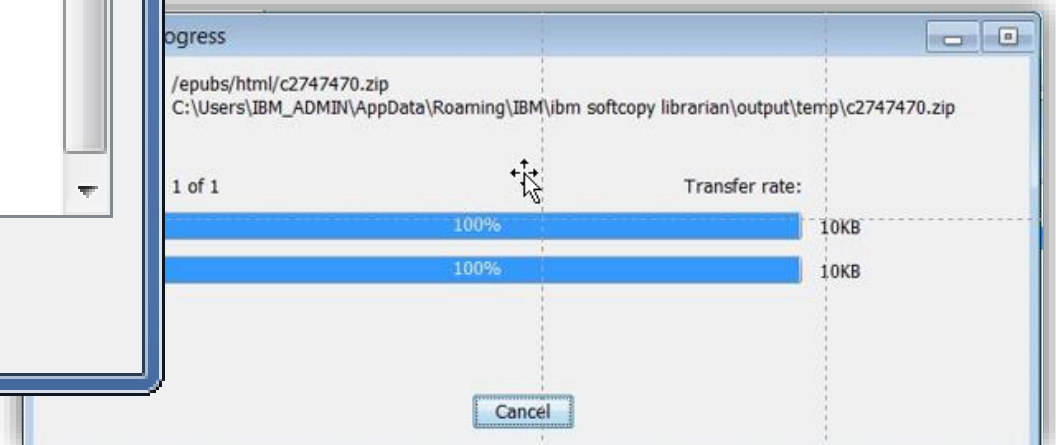
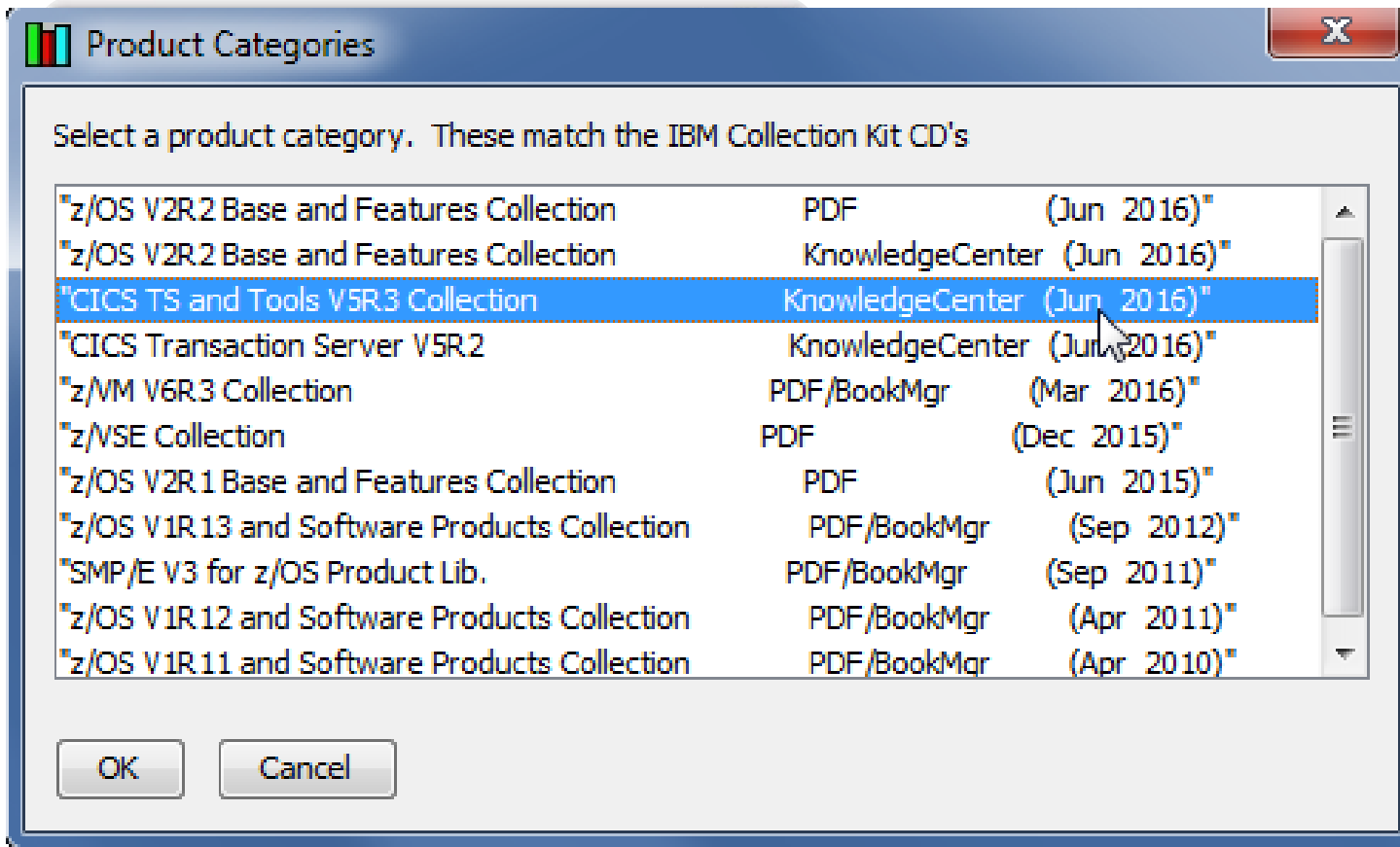
You can automatically add content to and maintain content in KC4z zFS repositories using the enhanced Softcopy Librarian tool.

By adding and maintaining content, KC4z can serve product publications for many different IBM products.

The screenshot displays the IBM Knowledge Center for z/OS (KC4z) web interface. The header includes the IBM logo, the text "IBM Knowledge Center", and a language selector set to "English". Below the header is a search bar with the placeholder text "Enter search terms". Underneath the search bar, it shows "Search Filters: No products selected." and options for "Auto-select" and "Add Products...". The main content area is divided into two columns. The left column contains a "Table of Contents" section with a "Products" list, including "Library Server for z/OS" and "Other Software". The right column features the "IBM Knowledge Center" title, a welcome message, and two sections: "Getting Started" and "Resources". The "Getting Started" section includes links for "Search tips", "Searching within a product", and "Setting filters". The "Resources" section includes links for "IBM Support Portal", "IBM Client Success Portal", "IBM Technical Content Twitter site", and "IBM Technical Content Blog". At the bottom of the page, there is an "Accessibility" notice, "Build info" (Build Version: KC_CI_1.5.v201408111832-GM-FP1.1 (Mon, 11 Aug 2014 17:32:05 EST), Taxo Version: 4.0.15), and a footer with links for "Contact", "Privacy", "Terms of use", and "Accessibility".



Softcopy Librarian (SCL) – Used to populate KC on z/OS

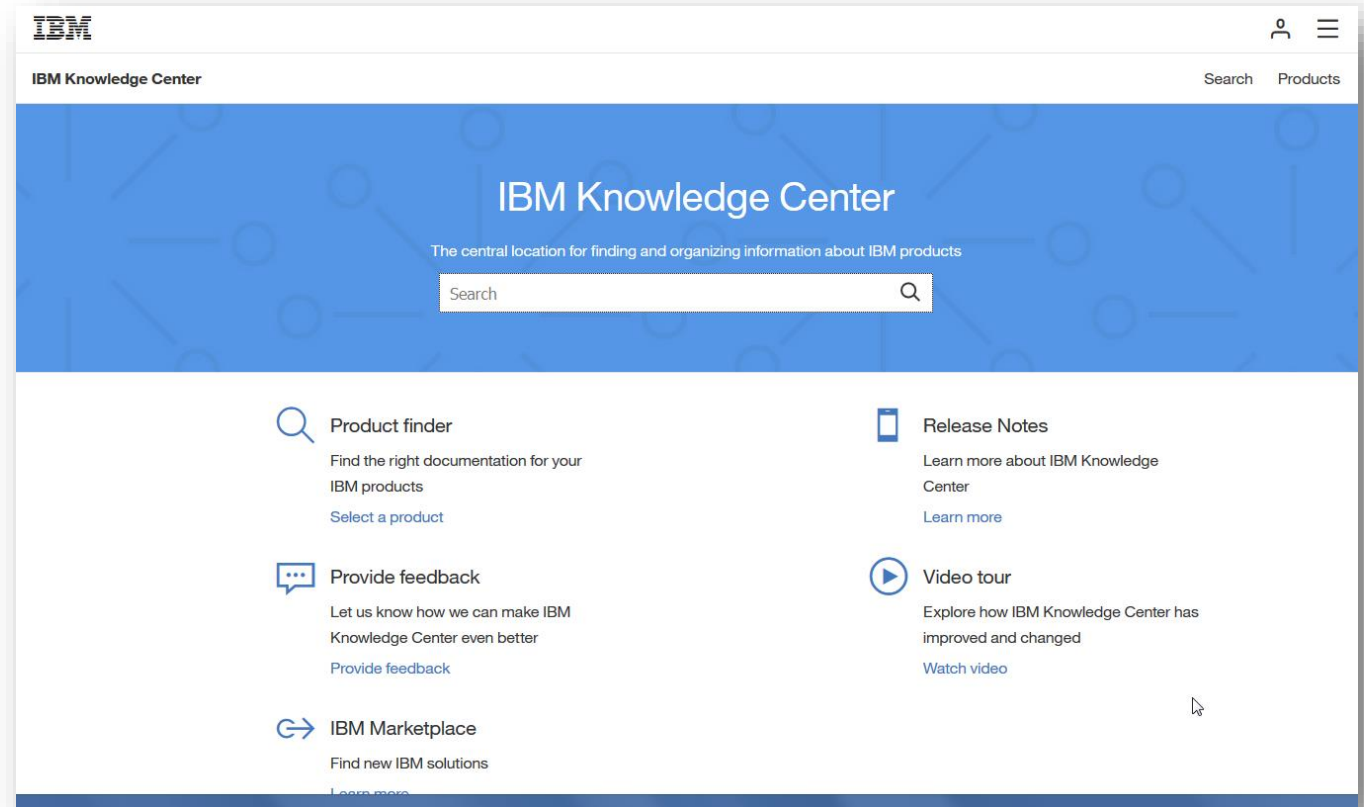


If you need additional libraries, send email to the individual product libraries.
You may also want to add your support to RFE 84246, which requests more KC4Z content.



Knowledge Center 2.0

- IBM Knowledge Center 2.0 was developed using IBM Design Thinking methodology, which is an iterative process that involves customers in the design process.
- New Improved Interface – compliant with **ibm.com**
- Improved Context in Search Results
- Improved navigation throughout
- Optimized mobile interface for smaller mobile devices that will automatically detect the device and change to optimize the display



Tip: View the Video tour for a quick overview of how to easily utilize the new features of Knowledge Center 2.0

IBM Knowledge Center improvements

Knowledge Center 1.5

- **User interface** – Too complex and confusing and not compliant with emerging standards
- **Navigation** – Exposed the unnecessary details of IBM's product taxonomy with the table of contents
- **Search context** – Not enough context in search
- **Speed** – Too slow

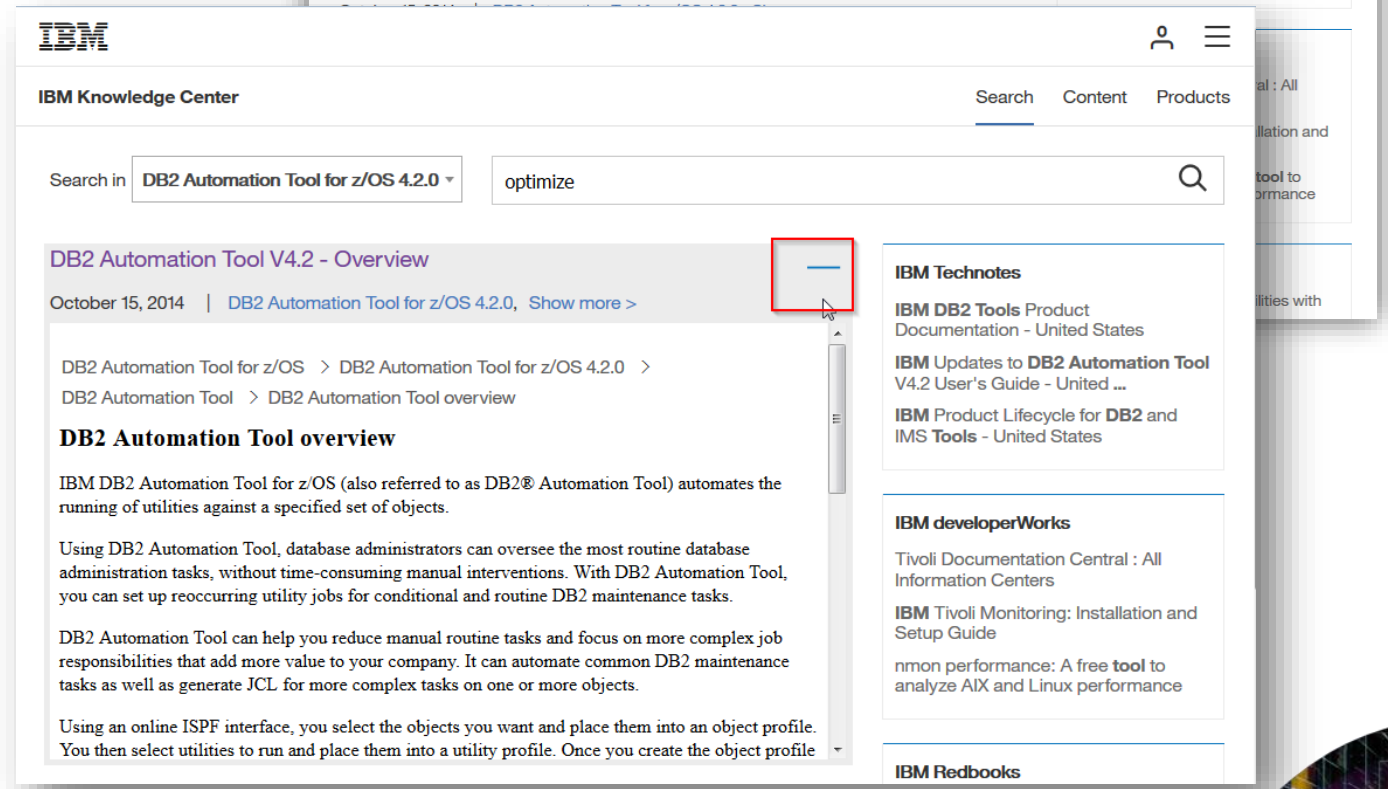
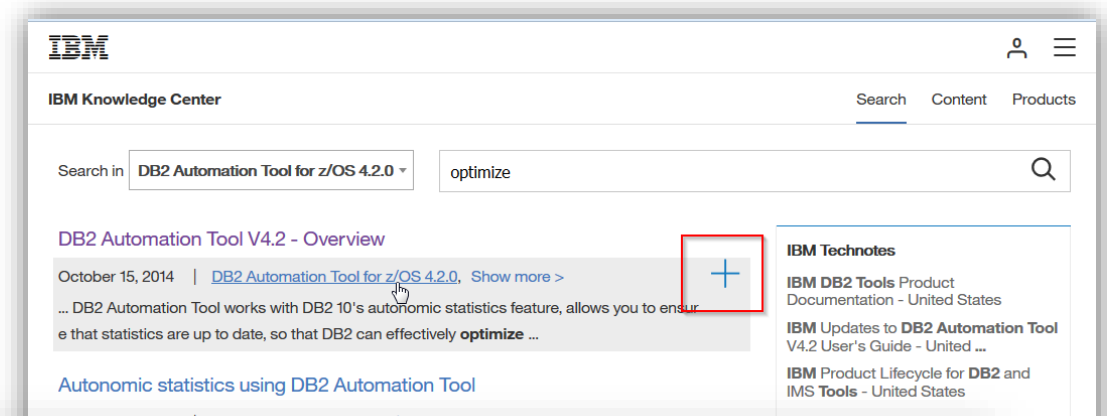
Knowledge Center 2.0

- **User interface** – Dramatically simpler: used web statistics to determine unused functions, such as Collections and custom PDFs, and removed them
- **Navigation** – Simplified by listing just the product names
- **Search context** – Search results provide a preview function
- **Speed** – Redesigned internals dramatically improves responsiveness



Searching KC 2.0

- The top complaint from users of KC 1.5 typically was ... Not enough context in search results
- New preview function lets you see results before going to them
- Hover over the results and a plus sign lets you preview the content
- In addition, we are requesting the addition of the book title to the results to provide even more context



About search scopes

- Search scopes are based on product taxonomies.
- There is a scope for each product release

The screenshot shows the IBM Knowledge Center website. The main navigation bar includes the IBM logo, the text "IBM Knowledge Center", and a search bar. Below the search bar, a list of product categories is visible, including "3592 Enterprise Tape System", "AIX", "Algo Credit Manager", "Algo Financial Modeler", "Algo One", "Algo Reporting for Solvency II", "Application Performance Analyzer for z/OS", and "Atlas eDiscovery Process Management". A search bar is present with the placeholder text "Enter a product name".

The search bar is active, and a dropdown menu is displayed. The dropdown menu is titled "Select" and contains the following options:

- Select
- Select
- Version 12.0.0
- Version 11.0.0
- Version 10.0.0
- Version 9.0.0

The dropdown menu is positioned over a blue banner for "DB2 for z/OS". The banner contains the text "DB2 for z/OS" and "a relational database that you can use to maintain large volumes of data with a high level of availability, security,". Below the banner, there are three columns of content: "Learn more", "Find documentation", and "Find support".

The "Learn more" column contains the following links:

- DB2 for z/OS home page
- z/OS basic skills information center
- DB2 for z/OS Best Practices

The "Find documentation" column contains the following links:

- DB2 12 for z/OS product documentation
- DB2 11 for z/OS product documentation
- DB2 10 for z/OS product documentation

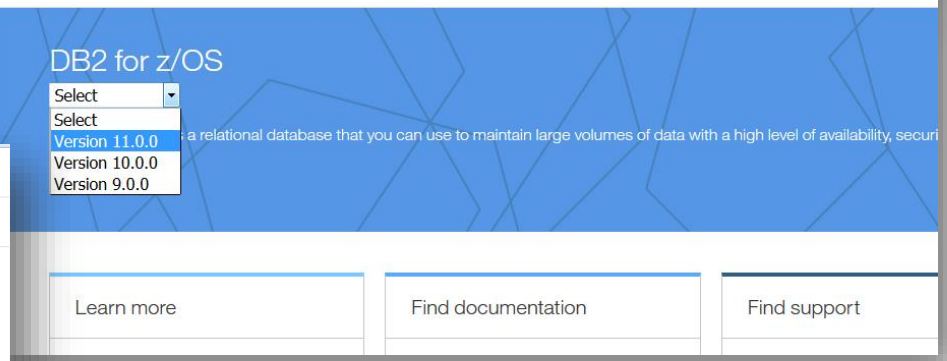
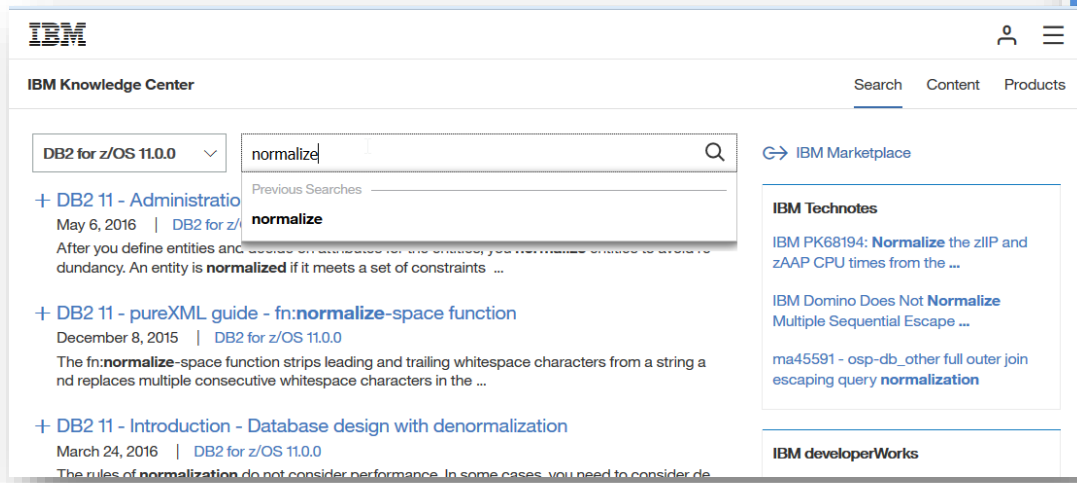
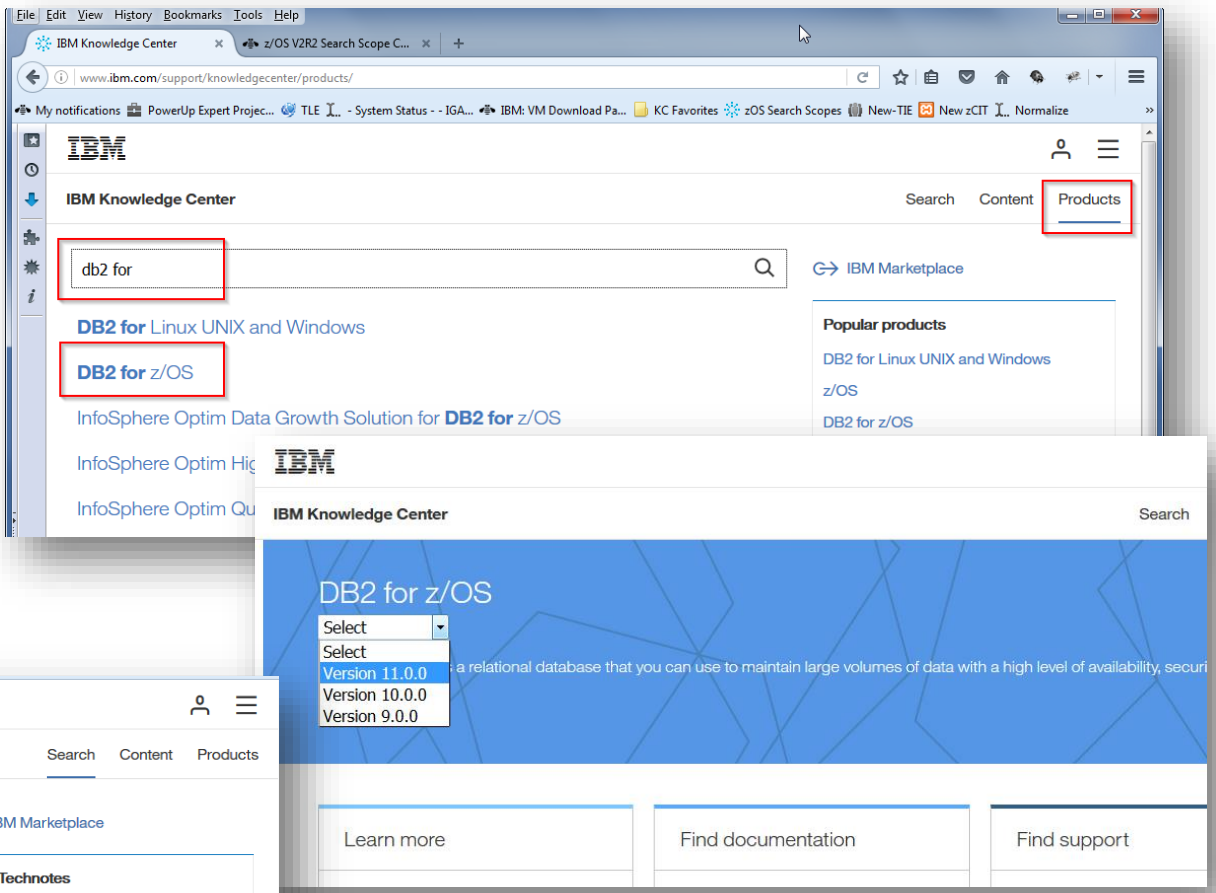
The "Find support" column contains the following links:

- DB2 for z/OS Support
- DB2 for z/OS Downloads
- International DB2 Users Group (IDUG) DB2-L forum
- Contacting IBM Support

Using IBM Knowledge Center 2.0

Three easy steps

1. Find your product.
Click on “Products” link and start typing the product name until it appears in the list.
2. Select the product and version you are interested in
3. Enter your search term and click search



Improvements

z/OS Product Documentation

- We are restructuring our documentation to provide smaller search scopes
- Eliminating redundant information
- Provide the ability to search at the book level
- Working with the corporate team to drive improvements that our customers want.
- We are working to facilitate more content for Knowledge Center for z/OS

Knowledge Center Design Thinking

If you are interested in volunteering to join in the design thinking work to make Knowledge Center better, contact the product manager, Jamie Roberts (robertsj@ca.ibm.com)



1. z/OS Search Improvement – Restructuring the Library

- z/OS consists of several components, so search scopes at the release level are very large.
- We are restructuring z/OS in KC to break up the content into as many component parts as possible for larger element libraries.
- This will result in a scope or, in BookManager terms, a shelf for the elements.
- At the same time, we plan to remove duplicate content that is common to each release.

The image displays two screenshots of the IBM Knowledge Center (KC) interface. The left screenshot shows the search bar with the text 'High Level Assembler and Toolkit Feature' selected, and a dropdown menu showing 'High Level Assembler and Toolkit Feature 1.6.0'. The right screenshot shows the search results for 'High Level Assembler and Toolkit Feature 1.6.0' with the word 'compile' in the search bar. The search results include several articles related to compiled code and exit routines.

IBM Knowledge Center

Search Products

Enter a product name

IBM Marketplace

Popular products

DB2 for Linux UNIX and Windows

z/OS

DB2 for z/OS

Graphical Data Display Manager (GDDM)

High Level Assembler and Toolkit Feature

IBM Wave for z/VM

IMS

KVM for IBM z Systems

z/OS

z/OS Basic Skills

z/OS Communications Server

z/OS Management Facility

z/OS XL C/C++

z/VM

IBM Knowledge Center

Search Content Products

High Level Assembler and Toolkit Feature 1.6.0

compile

IBM Marketplace

Specifying that an exit routine is **compiled** code

June 21, 2016 | High Level Assembler and Toolkit Feature 1.6.0

Requirements for **compiled**-language exit routines

June 21, 2016 | High Level Assembler and Toolkit Feature 1.6.0

Writing a **compiled**-language IDF exit routine

June 21, 2016 | High Level Assembler and Toolkit Feature 1.6.0

ADATA **Compilation** Unit Start/End Record-X'0002'

June 21, 2016 | High Level Assembler and Toolkit Feature 1.6.0

1-4 results

IBM Technotes

IBM TM1 **compile** error in hidden module: MenuFuncs when ...

IBM How do you use the dsccl command to **compile** InfoSphere ...

IBM Export from Microsoft Word to DOORS results in "**Compile** error ...

IBM developerWorks

Compile and run Weather Research and Forecasting data on an ...

Manually **compiling** Apache and PHP on Linux for OpenAdmin Tool ...

Information Management:Optim LUW:Errors during create DBALIAS

2. z/OS Search Improvement - Search Scope Catalog (Experimental)

Designed for z/OS to let users search at the element/feature level and at the book level.

www.ibm.com/support/knowledgecenter/SSLTBW_2.2.0/com.ibm.zos.v2r2/zos-search/zossearchscopes.html

IBM Knowledge Center

z/OS V2R2 Search Scope Catalog - Experimental

Version 2.2.0

Bookmark this page, then choose a search scope.

Choose a search category

Welcome to the IBM z/OS V2R2 Search Scope Catalog. This prototype was developed in response to user requests to provide search scopes similar to the ones provided in BookManager. This catalog is only a proof-of-concept of IBM Knowledge Center. This catalog is available **only** in the z/OS product documentation library. It mimics the IBM BookManager bookshelves that were part of our z/OS collection kits. The prototype allows you to search a subset of the z/OS product library. Using the dialogs you'll choose the z/OS element or feature, then you can choose a subset search scope (aka shelf) or you can choose an individual book. The prototype also offers a way to create a personalized set of search scopes, but if that is something that you'd like, please let us know by sending your feedback. **Note:** Not all manuals required updates for z/OS V2R2 so, your z/OS V2R2 search results may include z/OS V2R1 content.

If you find this type of search useful, please click on the "like" icon at the top right-hand corner of the page and send us your feedback as a readers comment through "[Contact z/OS](#)".

z/OS Search Scope Catalog > z/OS V2R2 DFSMS Library

z/OS V2R2 DFSMS* Library

Choose a search scope:

- The z/OS DFSMS* Library ("PDF Only" not included)
- The z/OS DFSMS* Library ("PDF Only" not included)
- Search all z/OS DFSMS content
- Search only z/OS DFSMSdfp content
- Search only z/OS DFSMhsm content
- Search only z/OS DFSMmmm content
- Search only z/OS DFSMtvms content
- z/OS V2R2 DFSMS Access Method Services Commands
- z/OS V2R2 DFSMS Advanced Copy Services
- z/OS V2R2 DFSMS Distributed FileManager Guide and Reference
- z/OS V2R2 DFSMS Implementing System-Managed Storage
- z/OS V2R2 DFSMS Installation Exits
- z/OS V2R2 DFSMS Introduction
- z/OS V2R2 DFSMS Macro Instructions for Data Sets
- z/OS V2R2 DFSMS Managing Catalogs
- z/OS V2R2 DFSMS OAM Application Programmer's Reference
- z/OS V2R2 DFSMS OAM Planning, Installation, and Storage Administration Guide for Object Support
- z/OS V2R2 DFSMS OAM Planning, Installation, and Storage Administration Guide for Tape Libraries

IBM Knowledge Center

storage limit(inurl:ldai200 OR antg000

IBM Marketplace

Specifying an on-demand migration number of concurrently queued volumes notification **limit** z/OS DFSMSshm **Storage** Administration SC35-0421-14 ...

May 18, 2015 | z/OS 1.13.0

Using the SMS enhancements

June 27, 2015 | z/OS 2.2.0

When **space** constraint relief is requested, SMS retries an allocation that was ... SMS simultaneously removes the 5-extent **limit** so that SMS can use as many ...

Specifying attributes to handle space constraints d...

March 28, 2014 | z/OS 2.1.0

IBM Technotes

White Paper - TS7700 Best Practices - Logical WORM.pdf

IBM Redbooks

Download PDF (5.4 MB)

IBM Bluemix

Based on the open source

3. Adobe Indexed PDF Collections**

We created this deliverable based on comments from the SHARE closed door and discussion sessions.

- Our survey indicated that most customers download PDFs to create a personal repository for offline or emergency use.
- Customers requested an easy way to download all PDFs at once.
- Customers also wanted a search that showed the type of context they were accustomed to with BookManager.

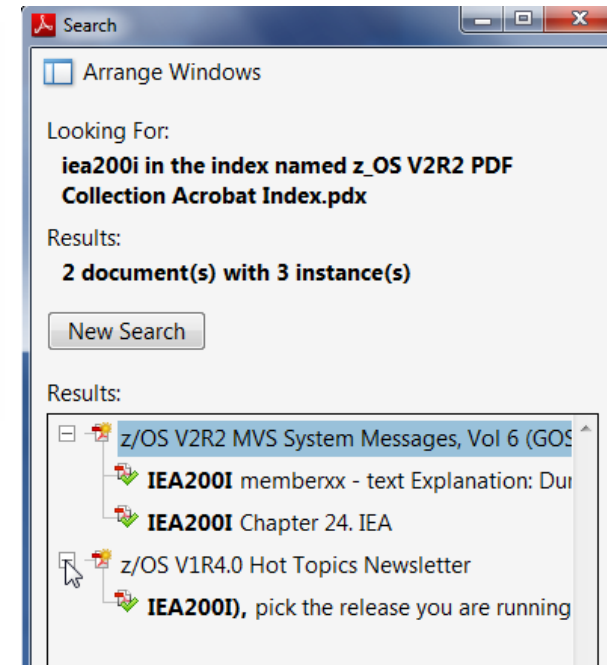
**Note: We are introducing an “Adobe indexed PDF collection” which uses standard Adobe indexes. We plan to stop producing collections that use IBM’s proprietary Advanced Linguistic Search (ALS) by z/OS V2R3.

z/OS V2R2 Acrobat Indexed PDF Collection 9/16 Refresh (SC27-8430-03)

Name	Type	Compressed size	Password
z_OS V2R2 PDF Collection Acrobat Index.pdx	Adobe Acrobat Catalog In...	1 KB	No
izuz5101.pdf	Adobe Acrobat Document	770 KB	No
izuz3111.pdf	Adobe Acrobat Document	1,414 KB	No
izu27200.pdf	Adobe Acrobat Document	1,366 KB	No
izu23200.pdf	Adobe Acrobat Document	1,587 KB	No
izu22100.pdf	Adobe Acrobat Document	551 KB	No
izu21100.pdf	Adobe Acrobat Document	77 KB	No
isp2ug10.pdf	Adobe Acrobat Document	1,807 KB	No

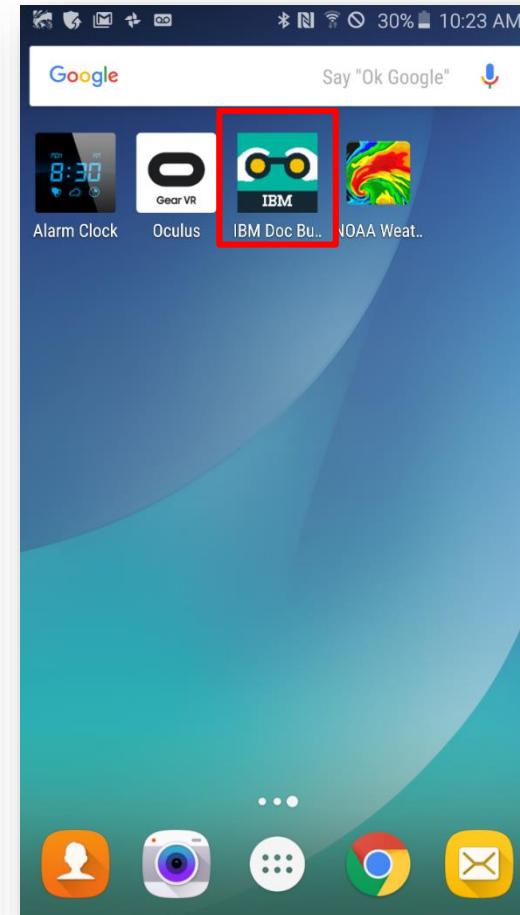
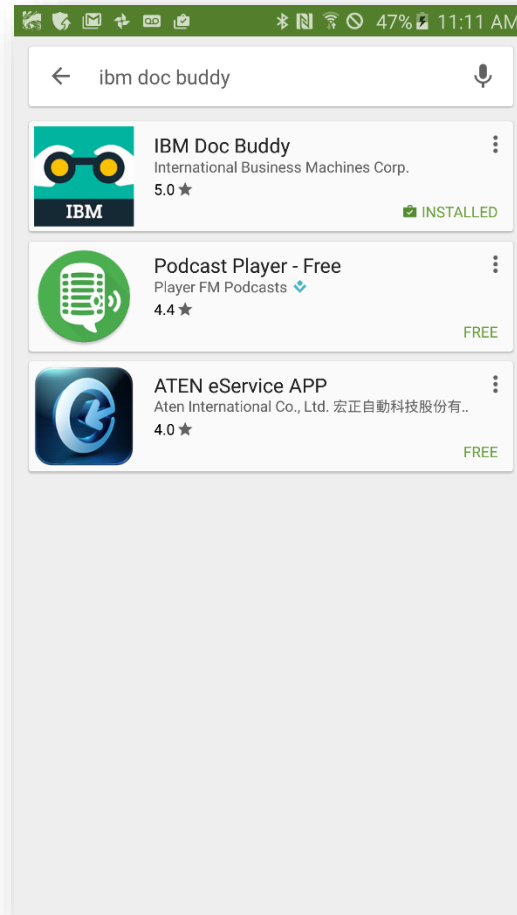
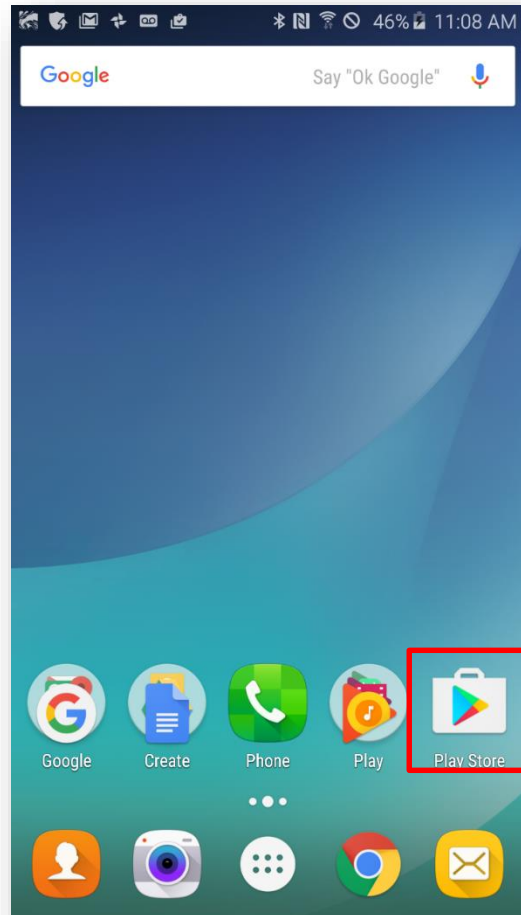
Benefits:

1. Provides standalone library
2. Provides a full text search with good context



Message lookup for Android: IBM Doc Buddy

Install the app from the Google Play catalog.

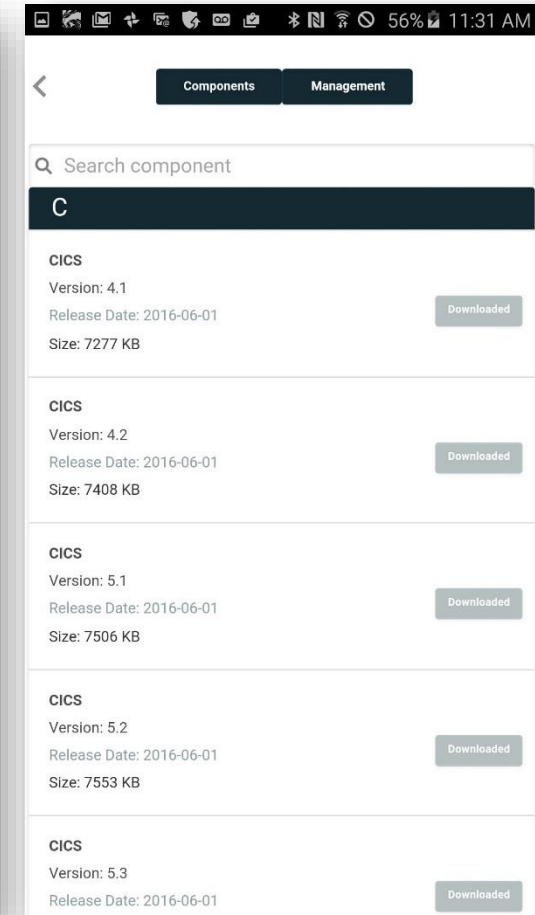
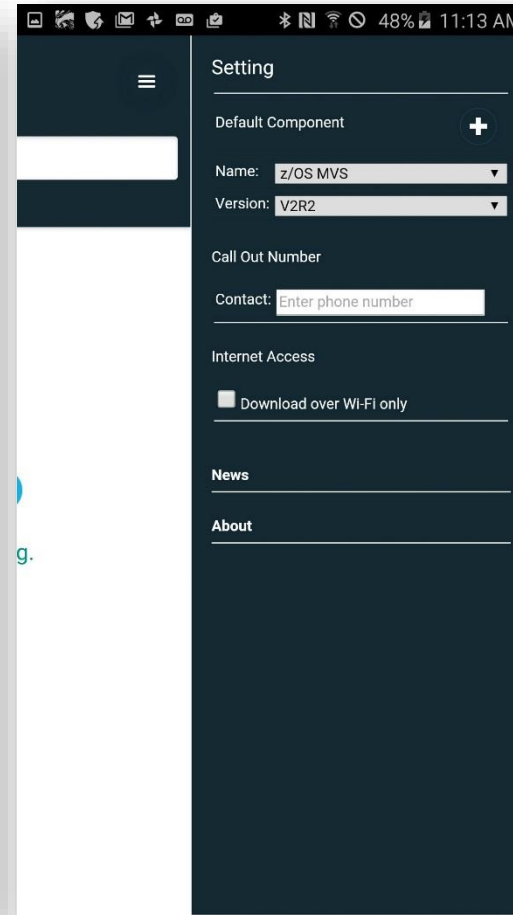
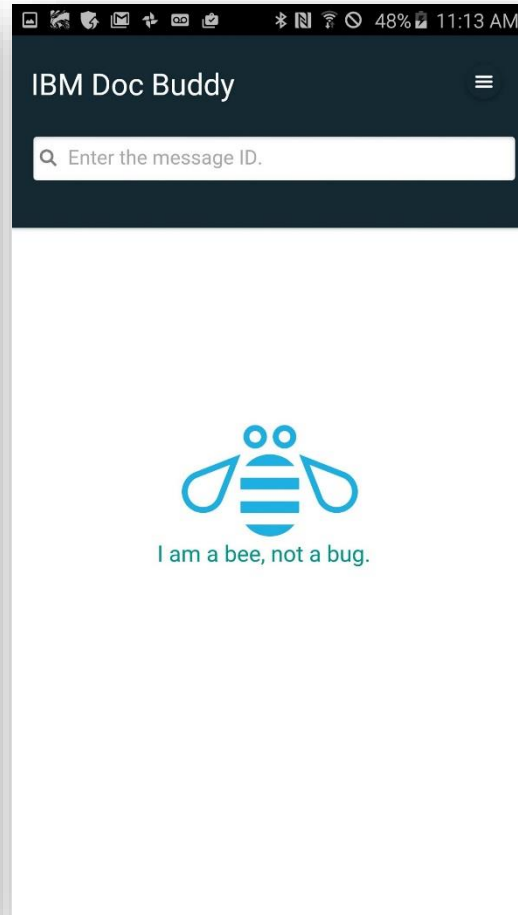


After installation, click on the icon to launch the app for the first time.



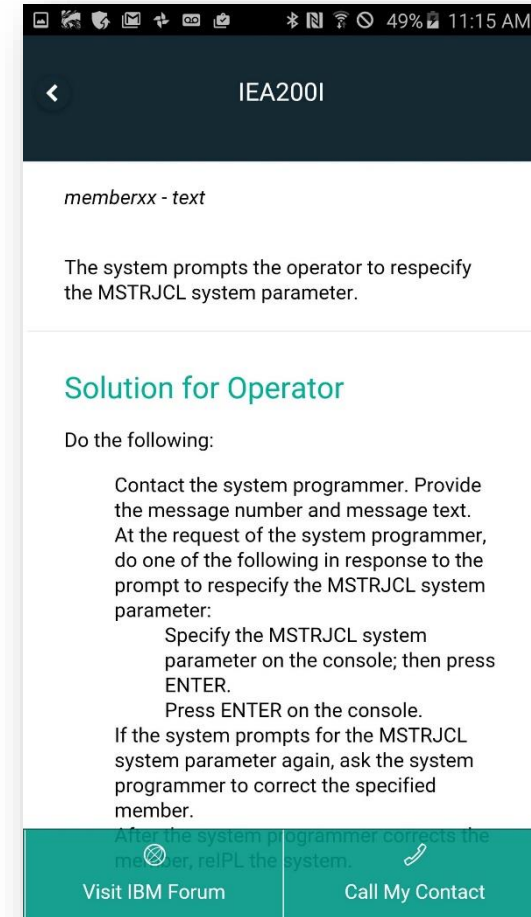
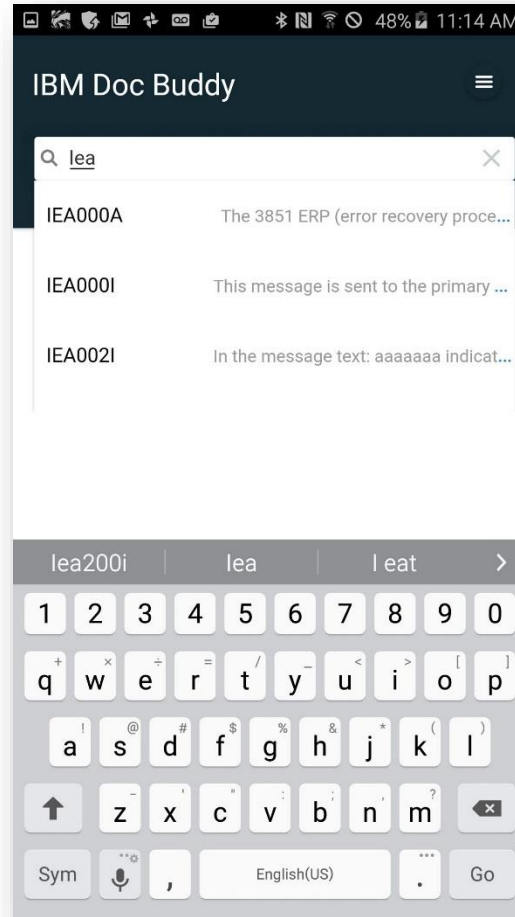
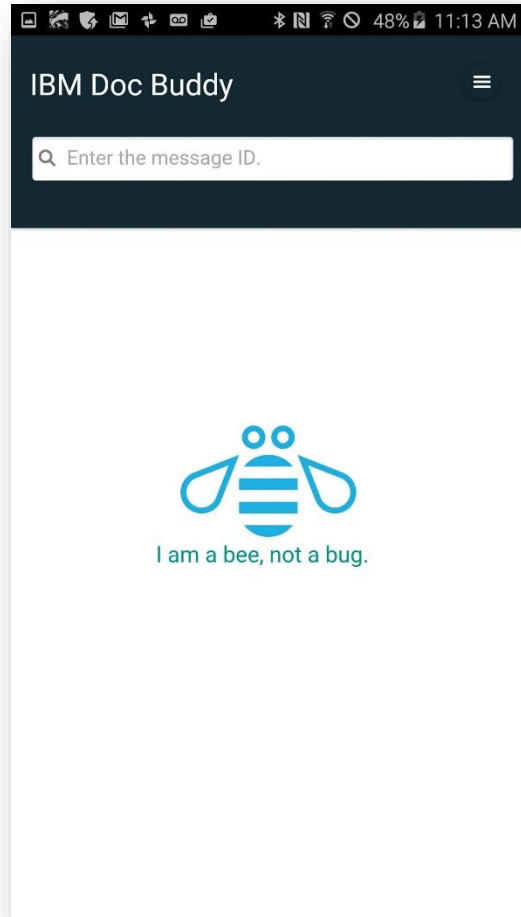
Setting up IBM Doc Buddy

Before you can search for a message, you need to complete some setup. A catalog lists all the components that you can download to the app. Download all components that you'll want to search.



Using IBM Doc Buddy

After the content is downloaded, you can use the app offline. Just start to type the message ID. The list narrows as the full message ID is entered.



z/OSMF workflows

- ibm.com/systems/z/os/zos/features/zosmf/tasks/workflows.html
- Simplify software configuration efforts.
- Ensure that consistent methods and tools are used for software configuration on z/OS.
- Provide administrative functions for assigning workflow responsibilities and tracking progress.
- More than merely a checklist of activities, the Workflows task provides a structured process for accomplishing work on z/OS. With the Workflows task, you can:
 - Guide the activities of system programmers, security administrators and others at your installation who are responsible for managing the configuration of the z/OS system.
 - Assign individual work items in the workflow (the *steps*) to performers and track their progress.
 - Save the output of a step in a separate file for use by subsequent steps in the workflow. ¹
 - Require a step to be performed when a logical condition is satisfied on the z/OS system. ¹
 - Use wizards to assist your team with creating system objects (UNIX files and z/OS data set members) and submitting work to run on z/OS, such as batch jobs, REXX scripts, and UNIX shell scripts.
 - z/OSMF provides guided, step-based workflows for migrating and configuring functions on z/OS. For more details, see [z/OSMF Downloads](#).



Learn more about workflows

- z/OSMF also provides a set of Representational State Transfer (REST) services for creating and managing a workflow on a z/OS system.²
- For more details, see *IBM z/OS Management Facility Programming Guide, SA32-1066*, in the [IBM Publications Center](#).

The screenshot displays the IBM z/OS Management Facility interface. The main heading is "z/OS setup for each z/OSMF plug-in. - Workflow_0". Below this, there is a progress bar showing 8% completion. To the right, metadata includes Owner: zosmfad, System: SY1_005, and Status: In Progress. A table titled "Workflow Steps" lists the following actions:

State	No.	Title	CalledWorkflow	Automated	Owner	Skill Category
Complete (Override)	1	Configuration Assistant				
In Progress	2	Common Information Model (CIM)				
Complete	2.1	CIM setup via ServerPac or CIM customization jobs		No	zosmfad	
Complete	2.2	CIM Security setup		No	zosmfad	
Complete	2.3	CIM file systems and directories		No	zosmfad	
Ready	2.4	Starting the CIM server		No	zosmfad	
Ready	2.5	CIM server verification		No	zosmfad	

At the bottom, there are buttons for "Return to Workflows" and "Refresh", along with a timestamp: "Last refresh: Jul 28, 2015, 7:41:12 AM local time (Jul 28, 2015, 11:41:12 AM GMT)".

Documentation Fall 2016 Survey

Please take a moment to complete a short survey. We'll only use the information that you provide to improve our documentation.

ibm.biz/Bdr5W9

Thank you!





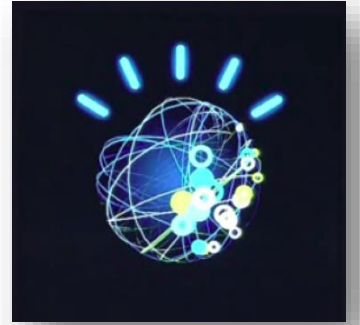
IBM Watson and Cognitive Computing

An Introduction



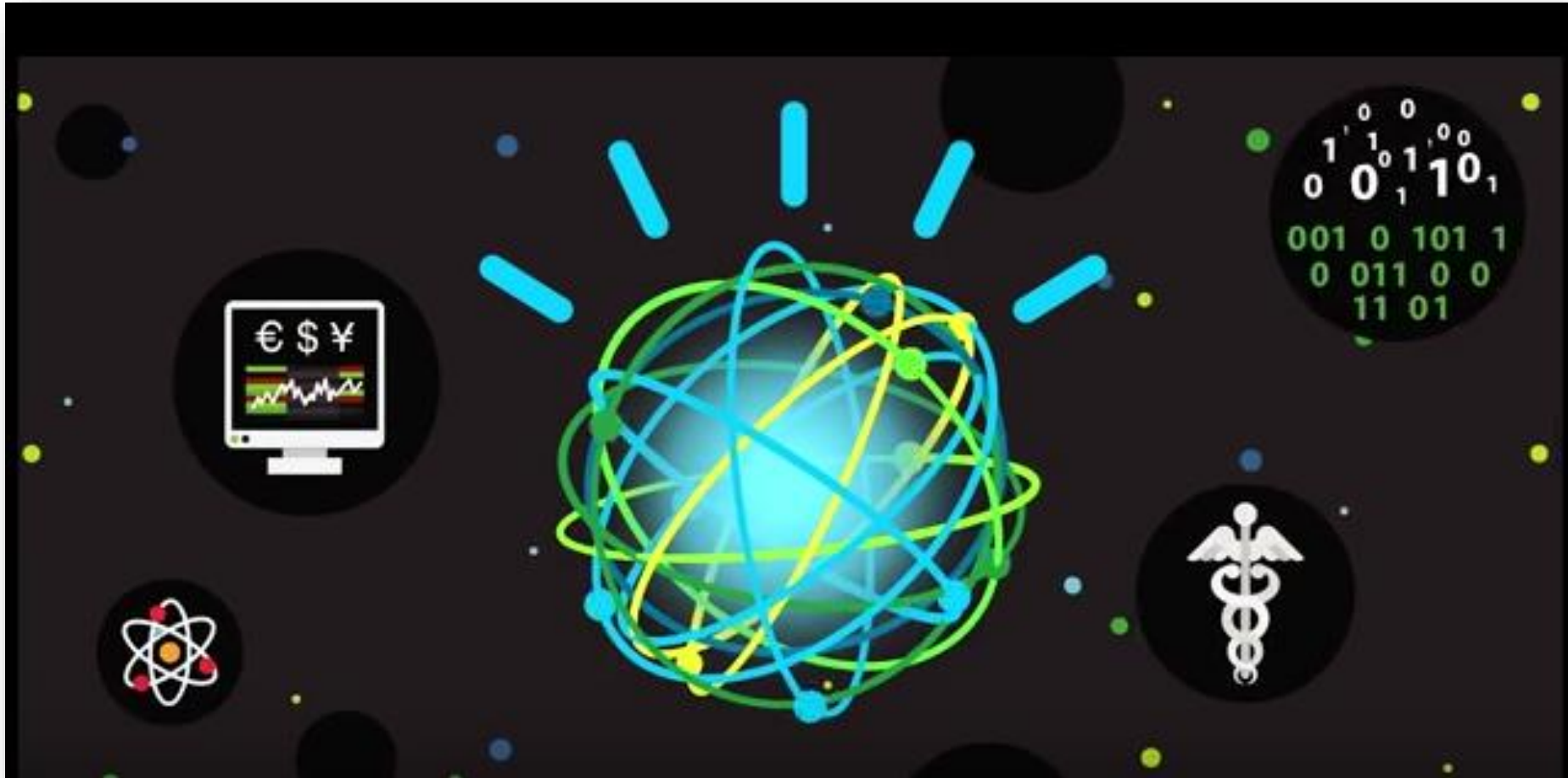
What is cognitive computing?

- Cognitive computing refers to systems that learn at scale, reason with purpose, and interact with humans naturally. Rather than being explicitly programmed, they learn and reason from their interactions with us and from their experiences with their environment.
- Most current systems have been deterministic; cognitive systems are probabilistic. They generate not just answers to numerical problems, but hypotheses, reasoned arguments and recommendations about more complex and meaningful bodies of data.
- What's more, cognitive systems can make sense of the 80 percent of the world's data that computer scientists call "unstructured." This enables them to keep pace with the volume, complexity and unpredictability of information and systems in the modern world.



Overview: How IBM Watson learns

www.youtube.com/watch?v=ymUFadN_MO4



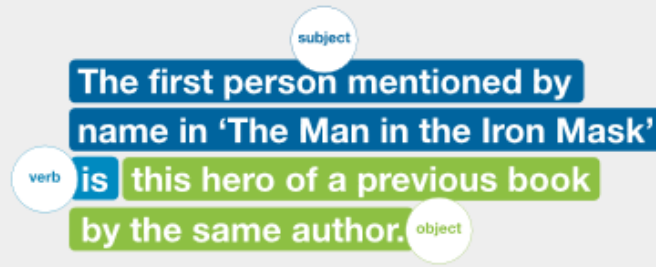
How IBM Watson works

How Watson reveals insights



Analyzes unstructured data

Uses natural language processing to understand grammar and context



Understands complex questions

Evaluates all possible meanings and determines what is being asked



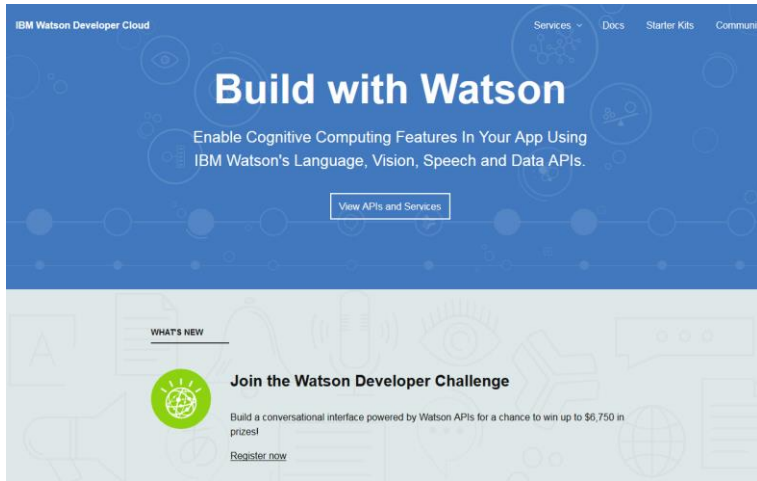
Presents answers and solutions

Based on supporting evidence and quality of information found










ibm.com/smarterplanet/us/en/ibmwatson/what-is-watson.html





Using IBM Watson APIs






Language

 AlchemyLanguage Learn more Documents	 Concept Expansion Learn more Documents	 Concept Insights Learn more Documents
 Dialog Learn more Documents	 Document Conversion Learn more Documents	 Language Translation Learn more Documents
 Natural Language Classifier Learn more Documents	 Personality Insights Learn more Documents	 Relationship Extraction Learn more Documents

Speech

 Speech to Text Learn more Documents	 Text to Speech Learn more Documents
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Vision

 AlchemyVision Learn more Documents	 Visual Insights Learn more Documents	 Visual Recognition Learn more Documents
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Data Insights

 AlchemyData News Learn more Documents	 Tradeoff Analytics Learn more Documents
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IBM Watson Bluemix: ibm.com/cloud-computing/bluemix/library



Marist and IBM Watson

The screenshot shows the Marist College website with a red header. The navigation menu includes: About Marist, Admission, Academics, Student Life, Athletics, and Community. The Marist logo is prominently displayed on the left, and a search bar is on the right. The main content area is titled "Marist/IBM Joint Study" and includes a breadcrumb trail "home > community". The page features a left sidebar with a "Community" section listing various departments and a "Contact:" section for Geoffrey L. Brackett. The main text describes the long-standing partnership between Marist College and IBM, highlighting the Joint Study program and the SDN Innovation Lab.

home > community

Marist/IBM Joint Study

Marist College has had a longstanding partnership with the IBM Corporation that has helped place Marist among the most technologically advanced liberal arts colleges in the country. A key component of the Marist/IBM partnership has been a long-standing Joint Study arrangement that has benefited both the College and IBM in many ways. Through the Study, IBM has been able to test concepts and applications that the company believes can be of value in the 21st century in cloud computing, analytics, education, business, cybersecurity and other fields. The Study has also helped develop a world class technology platform to support instructional, research and administrative initiatives.

The introduction of computers and computer science courses at Marist began in the mid 1960s, a time when few colleges the size of Marist had moved into this field. From the start, the approach has been that computers are a functional tool for everyone at the College as well as a scientific discipline to be mastered by those in the School of Computer Science.

The IBM/Marist Joint Study began in 1988 with the installation of a \$10 million IBM 3090 mainframe computer. Since that time, Marist has continuously worked with IBM to carryout major upgrades of its enterprise computing environment. The College's participation in the Joint Study provides the unique opportunity for Marist students, faculty, and IT staff to work collaboratively with IBM research and development staff on various emerging technology initiatives. For example, Marist and IBM have combined their resources in a Joint Study program focused on Software Defined Networking (SDN) technology. This technology is being tested in the **SDN Innovation Lab** housed in the Hancock Center. The SDN advancement Marist and IBM are testing will enable an IT professional to remotely access and configure network resources via a wireless device and open source network controller developed by Marist.

More recently, Marist and IBM embarked on emerging technology research projects with applications in both the business and academic worlds. These projects include data analytics, software defined networking and cloud computing. Current and planned activities provide Marist students the opportunity to work closely with faculty from many disciplines.

Related Information:

- IBM Corporation



How can you build a cognitive solution?



- Join [IBM Bluemix](https://ibm.com/cloud-computing/bluemix/library) today (ibm.com/cloud-computing/bluemix/library) without a credit card.
- Access to 2 GB of runtime and container memory to run apps.
- Unlimited IBM services, APIs, and complimentary support.





Hot Topics, Redbooks, and Communities

Other sources for z-related information



IBM z/OS Hot Topics Newsletter

IBM z/OS Hot Topics is an annual newsletter that provides usable, hands-on, technical information about z/OS topics and features.

To check out previous editions: ibm.com/systems/z/os/zos/library/hot-topics/hot-topics.html



IBM z Systems **Redbooks**

Redbooks address product, platform, and solution perspectives and explore the integration, implementation, and operation of realistic client scenarios.

Some examples include:

- ABCs of IBM z/OS System Programming
- IBM z13 Technical Guide
- IBM Mainframe Bits: Understanding the Platform Hardware

To see the available Redbooks for z Systems:

www.redbooks.ibm.com/portals/systemz



z-Related communities

Connect with experts, collaborate & share with peers via communities:

- z Systems: ibm.com/systems/z/resources/community.html
- IBM Destination z: www.destinationz.org/Community.aspx
- SHARE: www.share.org/
- zNextGen: www.znextgen.org/
- IBM Academic Initiative: developer.ibm.com/academic/
- IBM-MAIN list: listserv.ua.edu/cgi-bin/wa?LIST=IBM-MAIN
- IBM developerWorks: ibm.com/developerworks/analytics/zsystems/



z-Related contests and learning systems

- IBM Master the Mainframe contest:

ibm.com/systems/z/education/academic/masterthemainframe/index.html

- New:

- **Mainframe Contest Learning System**

IBM opened the Master the Mainframe Contest system to anyone wishing to gain extra mainframe experience in a controlled environment (Note: No prizes are awarded with participation):

ibm.com/systems/z/education/academic/masterthemainframe/contest/learning.html



Additional z-Related resources

- zFavorites: ibm.com/systems/z/os/zos/library/zfavorites/
- IBM Systems Blog: ibm.com/blogs/systems/
- IBM terminology: ibm.com/software/globalization/terminology/
- IBM Publications Center: ibm.com/e-business/linkweb/publications/servlet/pbi.wss
- z Systems resources: ibm.com/systems/z/resources/
- z Systems education: ibm.com/systems/z/education/



z-Related Twitter pages

- IBM z Systems: twitter.com/IBMzSystems
- IBM Systems: twitter.com/IBMSystems
- IBM Master the Mainframe Contest: twitter.com/mastermainframe
- IBM Destination z: twitter.com/myzcommunity
- SHARE Inc: twitter.com/SHAREhq
- IBM z Systems Events: twitter.com/SystemZEvents



z-Related Facebook pages

- IBM System z: www.facebook.com/IBMsystemz
- IBM Systems: www.facebook.com/ibmsystems
- IBM Master the Mainframe Contest:
www.facebook.com/MasterTheMainframe
- IBM Destination z: www.facebook.com/IBMDestinationz
- SHARE Inc: www.facebook.com/SHAREonSocial



z-Related LinkedIn profiles

- IBM Systems: www.linkedin.com/company/ibm-systems
- System z Advocates: www.linkedin.com/groups/155723/profile
- IBM z Systems Events: www.linkedin.com/groups/IBM-System-z-Events-3053018
- Mainframe Experts Network: www.linkedin.com/groups/Mainframe-Experts-Network-55779



Thank you!

