

Introducing Brightside

An Introduction to our Command Line Interface into the z Platform

Elliot Jalley - 30th May 2018 - 5.06

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Agenda

- 1 MEET THE FOLKS BEHIND BRIGHTSIDE
- THE NEED TO MODERNIZE THE MAINFRAME DEVELOPMENT EXPERIENCE
- 3 INTRODUCING THE BRIGHTSIDE COMMAND LINE INTERFACE
- 4 HELP US BUILD BRIGHTSIDE







The need to modernize the mainframe development experience



A Developer's World

Project Brightside

What is available for today's developers to use?

- Lightweight text-editors for quick editing with community plugins
- Powerful IDEs for specialized languages



- CLIs to interact with services
- Choice of powerful scripting languages for build and automation
- Continuous Integration and Delivery orchestration tools



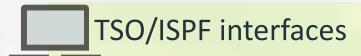
A Mainframe Developer's World

Project Brightside

What is available for today's developers to use if they are working on the Mainframe part of their application?



Eclipse-based IDEs that are customized for mainframe development





JCL/Rexx for build and automated system testing



Let's Listen

Project Brightside

What are developers asking for with the mainframe?

Associate Software Engineer @ CA:

"I wish I could just use modern testing frameworks for writing mainframe automated tests."

r/Mainframe user:

"I've recently been thinking about working on something to give me better integration for my z/OS coding and a local editor (likely Atom... maybe VScode)."

Stackoverflow user:

"Which plugin should I use to get started with Jenkins to manage mainframe components in PDS format?"





Our Goal

Project Brightside

Enable developers and DevOps engineers to control, script and develop on the mainframe like any other cloud platform and allow them to make use of familiar, industry-standard, open-source tooling. By accomplishing this, Brightside:

- Addresses the skills gap by making mainframe development more attractive and accessible to next-generation developers
- Improves the application delivery lifecycle by allowing mainframe applications to be integrated into enterprise DevOps pipelines



Introducing Brightside CLI



Brightside Introduction

 CA Brightside is a Command Line Interface that provides a simple and streamlined way to interact with the IBM z Systems platform





Brightside Introduction

Script-friendly

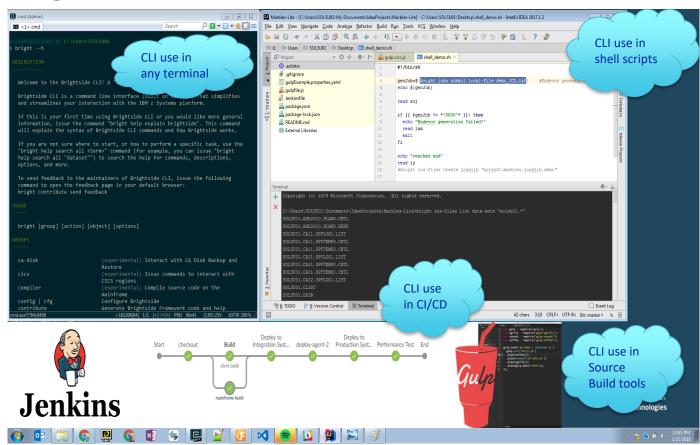
DevOps Enablement

Modern Developer Experience

```
bright
Welcome to the Brightside CLI! A "brighter" way to "mainframe"!
Brightside CLI is a command line interface (built on Node.js) that
simplifies and streamlines your interaction with the IBM z Systems
platform.
If this is your first time using Brightside CLI or you would like more
general information, issue the command "bright help explain brightside".
This command will explain the syntax of Brightside CLI commands and how
Brightside works.
If you are not sure where to start, or how to perform a specific task,
use the "bright help search all <term>" command (for example, you can
issue "bright help search all "dataset"") to search the help for
commands, descriptions, options, and more.
To send feedback to the maintainers of Brightside CLI, issue the
following command to open the feedback page in your default browser:
bright contribute send feedback
bright [group] [action] [object] [options]
```

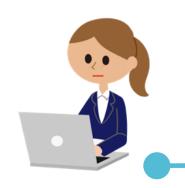


Brightside Introduction





Developers use their tools of choice



She can use her favorite code editor



She works on a team, so source control tools like Git are essential



Using BrightSide,
Michelle can code for
the mainframe as she
would for any platform

Using BrightSide commands, she can interact with the mainframe's data and tools





Michelle issues a few simple commands to download the code to her PC



Developers use their tools of choice



Michelle edits the source and issues a BrightSide command to generate a build





Michelle can **debug and rebuild** her code
without leaving her
code editor



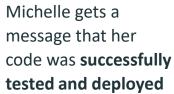


She can use modern build tools like Gulp and run a local unit test



Michelle commits her code, which triggers Jenkins and her code pipeline

(QA, DEV, PROD)





Final Thoughts

 Brightside is a new software solution that bridges the MF / Distributed divide to make the mainframe easily accessible and programmable by the next-generation developers and DevOps Engineers.

 CA Service plugins are being developed with 100% automated DevOps enablement as the goal.



Final Thoughts

In an article, titled "The Return of the CLI: CLIs Being Used by API-Related Companies," Bill Doerrfeld writes:

"A CLI is a powerful ally for improving developer experience, as it could be used in an **interactive mode** to debug, troubleshoot, or explore in real time, or used in a high-level, **abstracted way** with shell scripts to unite local and CLI actions."

https://developer.ibm.com/tv/wp-content/uploads/sites/62/2016/03/npm-1024x576.png





Project BrightSide - Mainframe Interaction Framework : Sneak Peek



Help us Build Brightside



Help us build out Brightside

https://validate.ca.com/ProjectBrightside





Benefits of Being a Validation Partner

- By joining Project Brightside on validate.ca.com, you will
 - Gain access to beta source code to try out Brightside CLI features first!
 - Provide direction on features so that Brightside will best fit your needs
 - Be invited to our Sprint Reviews to speak with our teams and see the latest developments and direction
- There is no commitment to purchase anything. We value your input and would like you to try out our product. We enjoy the benefits of the Brightside CLI at CA and hope you will too!



More Brightside at Prague Technology Days

Meet the team at our Booth Wednesday afternoon



its integration with other

Devops tools

17h30 Wednesday





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