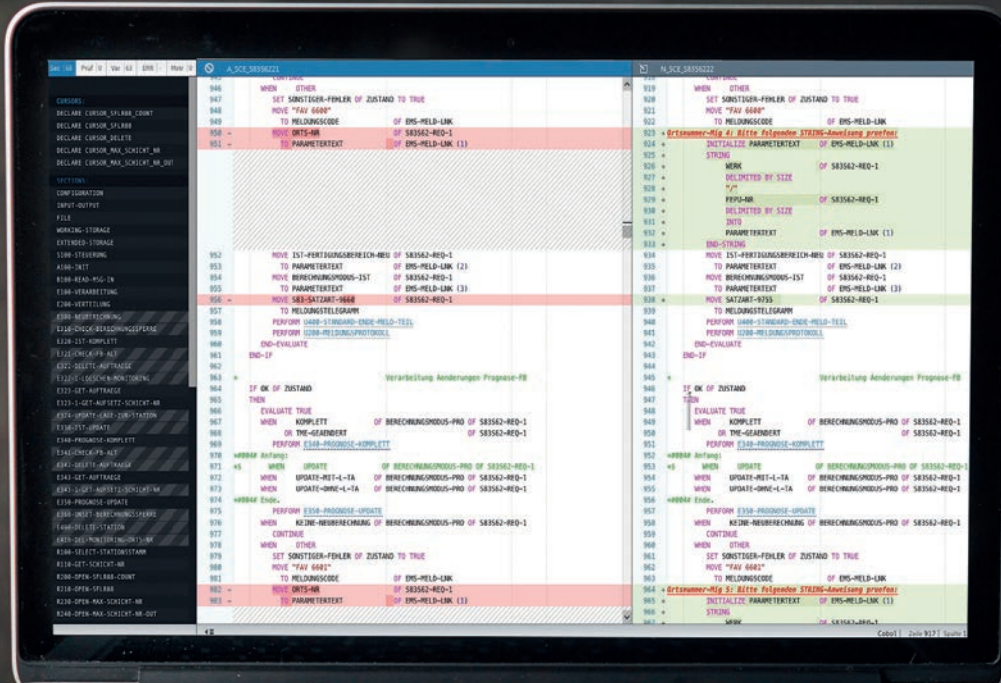


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eddy+

The first web-based IDE for HPE NonStop



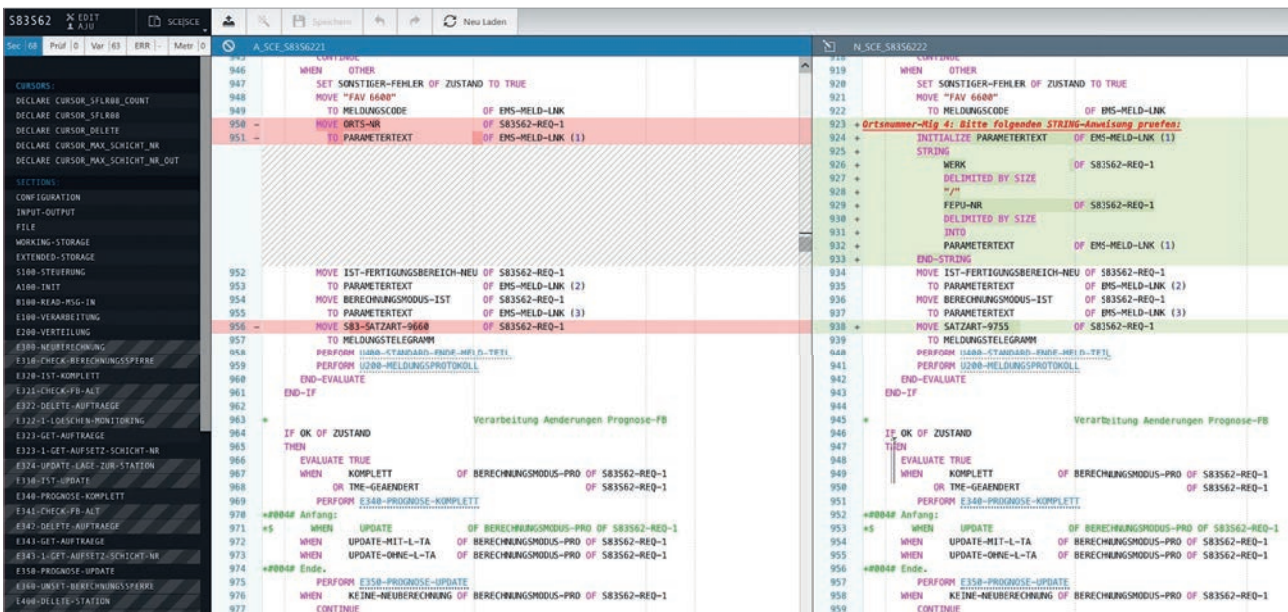
Product Vision

eddy+ is for HPE NonStop developers and allows them to easily and comfortably develop, deploy, debug, and maintain C and COBOL code. It is a web-based modern IDE, which simplifies communication with the HPE NonStop, wrapped in a user-friendly intuitive interface. Contrary to all competing alternatives, eddy+ is easily scalable and doesn't require costly and time intensive individual client configuration. Additionally, eddy+ offers an integrated user rights management, easy modification for customer specific needs, as well as supporting agile development processes.



Goals

Modernizing HPE NonStop software development with all customary conveniences available to other platforms and coding languages.



Powerful C and COBOL editor with compare function



Target Group

C and COBOL developers for the HPE NonStop.



Area of Application

HPE NonStop application development for coding languages C and COBOL.



Customer Benefits

- Save valuable time during code creation
- Improve quality by reducing manual steps
- Efficient onboarding
- Easy development team scaling

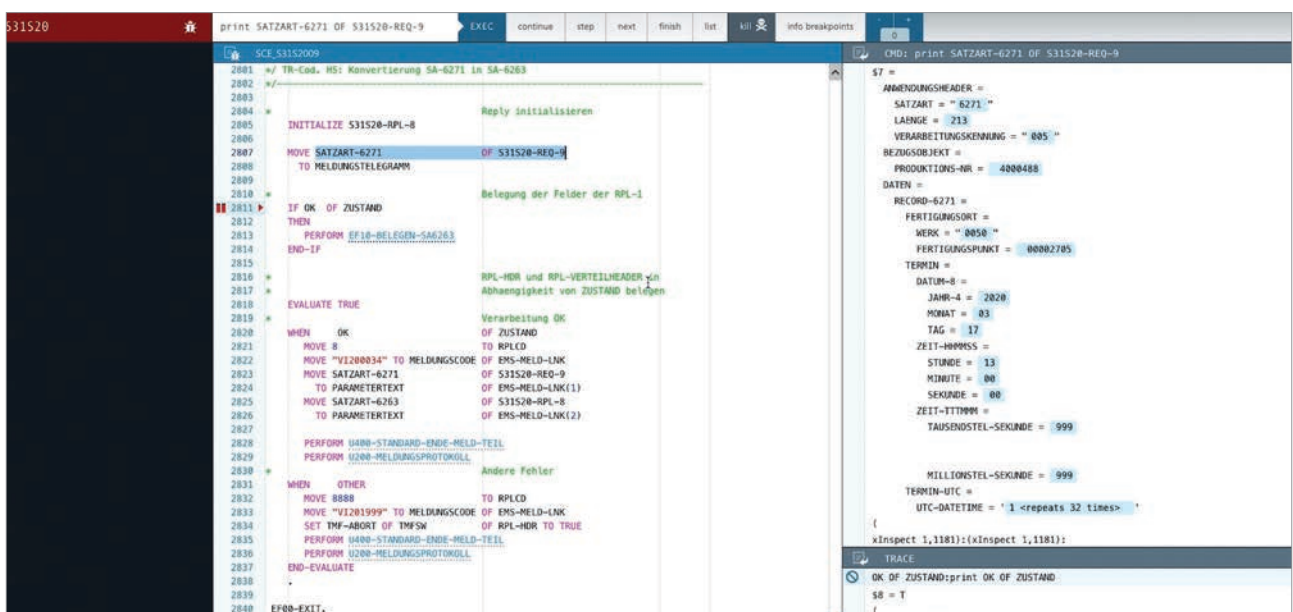


Functions

Features	Function	Description
File Explorer	Navigation	Navigation through directories and files on an HPE NonStop with the file systems GUARDIAN or OSS.
	File operations	Basic operations (create, copy, delete) with files on an HPE NonStop with the file systems GUARDIAN or OSS.
	File view	Open one or more selected files to view the content (read only) with automatic syntax recognition.

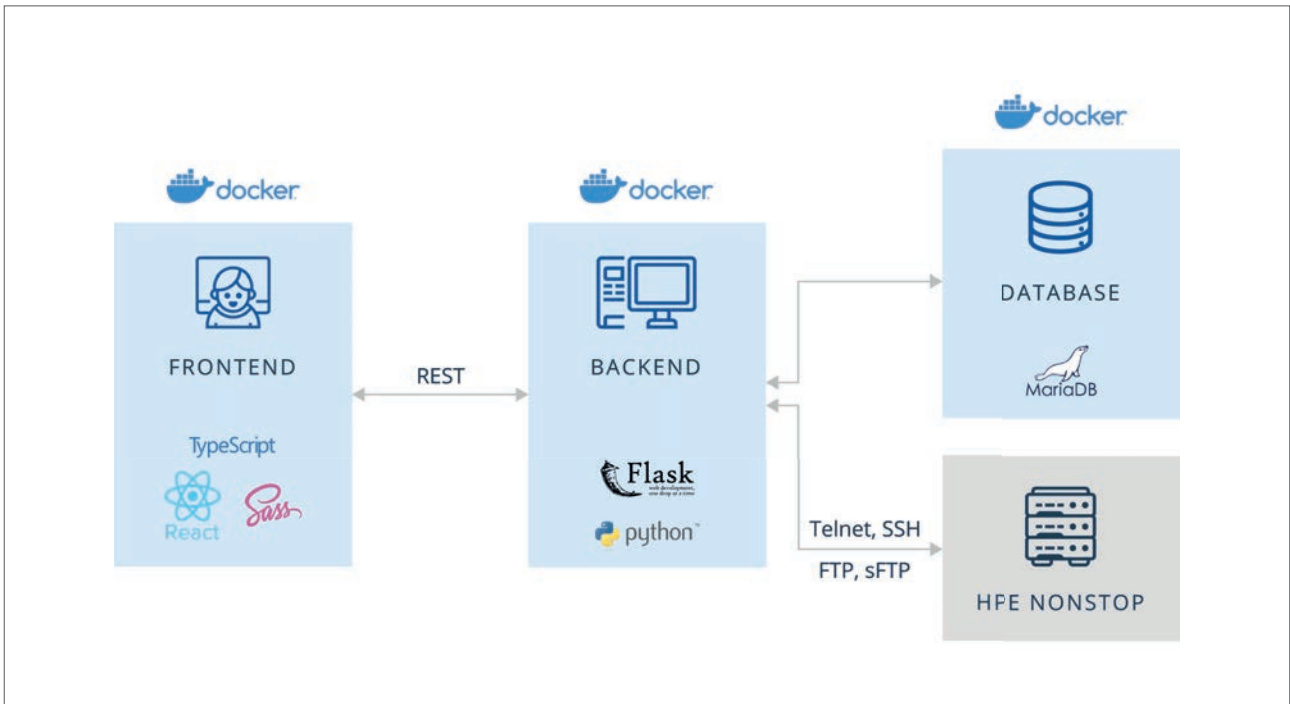
File Editor	Syntax highlighting	Syntax highlighting for coding languages C and COBOL.
	Tab capability	Open multiple files in different tabs.
	Single view	View and edit files in an editor tab.
	Split view	View and edit two files simultaneously in an editor tab.
	Compare mode	Compare two selected file contents including difference highlighting.
	Navigate through COBOL source code	Navigate through COBOL source code over sections and cursors
	Navigate through C source code	Navigate through C source code over functions.
	COBOL source code hyperlinks	Navigate through COBOL source code hyperlinks to their corresponding sections and cursors.
	Tab stops for COBOL source files	Vertical editor tab stops (read only and write) for COBOL source files.
	Auto complete	Auto complete functions for reserved words for coding languages C and COBOL.
	Search	Search and replace predefined file contents.
	Hotkeys	Predefined key bindings for standard operations during source code development.

Features	Function	Description
Compile	One click compile	Start the proprietary NonStop compiler over the web app.
	Compile error visualization	Visualize compile errors in relation to source code.
	Compile error navigation	Navigation through source code via error list.
Debug	Initiate the native NonStop debugger	Initiation of the native NonStop debugger via the web interface.
	Control the native NonStop debugger	Interaction with the native NonStop debugger via the web interface.
	Visualization	Visual indicator of the current position in the source code.
	Watches	Monitoring and manipulation of variable contents in a separate area of the web interface.
	Breakpoints	Monitoring and control of breakpoints in a separate area of the web interface.
Terminal emulator	Communication with the HPE NonStop	Enter any TACL command via the web interface.
Interchangeable services	Additional functionalities	Interface for customer specific add-ons.



Intuitive native NonStop debugger interface

Architecture



eddy+ is a web application based on the client-server principle. No local installation is required.

Frontend	Framework	React
	Editor Core	Monaco Editor
	UI Components	React Bootstrap, Material UI
	Programming Language	TypeScript
	Documentation	TypeDoc
	Test Framework	Selenium

Backend	Communication Interface	REST-API
	Documentation of the REST-API	OpenAPI
	Programming Language	Python 3
	Test Framework	PyTest
	Persistence	MariaDB

Communication with the HPE NonStop	Network Protocol	Telnet, SSH
	File Transfer Protocol	FTP, SFTP



Summary

eddy+ is a web application that simplifies the development process for HPE NonStop. The application essentially covers the following requirements:

- Functions of a modern IDE especially for the programming languages C and COBOL
- Tools for automating of the entire development process
- Visualization of the interaction with various proprietary HPE NonStop applications

eddy+ does not replicate the functions of individual HPE NonStop applications, but makes it easier to use them. In addition, the system structures and automates individual steps that are necessary for development on the HPE NonStop. eddy+ hereby represents an easily scalable IDE (Integrated Development Environment) for software development on the HPE NonStop.

The screenshot displays a COBOL development environment. The main window shows COBOL code for a function 'Neuberechnung einer Station'. The code includes initialization, state checks, and data updates. On the left, a dark panel shows compile error messages: 'Error 271 ** object refer...' and 'Error 382 ** Undefined procedure refer...'. The code lines are numbered from 926 to 967.

Compile error visualization

About us



abat+ advises and develops software for leading luxury vehicle, industrial, and consumer product manufacturers such as Daimler, Miele, nobilia, and Qoros. Our company excels in all IT-Service-Management phases from alignment of business processes, to development, rollout, integration, and maintenance of standardised solutions.

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