

Success Story: Build Environment for Everything (BEE)

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The Customer

One of the pioneers of the Linux-based data storage appliance market in the USA, working in the field of data storage systems ranging from SOHO to enterprise markets, providing software solutions for use by original equipment manufacturers (OEMs). The company turned to EPAM to create an environment for automating the build engineering process for their software products, ranging from a single package to a custom Linux distribution for a specific hardware platform.

The Challenge

One of the goals was to create a straightforward, unified build engineering process. This was challenged by the customer's requirement to deliver an automated software build facility, which could produce packages for different Linux distributions.

The Solution

The EPAM team did a thorough research work to elaborate a unified approach to engineering software builds for different Linux distributions and hardware platforms. The common features found in disparate systems served as a basis of the BEE concept which was later implemented in the code.

Highlights

- Developed using free software and open source components; written in Ruby language
- Highly modular, extensible, and reliable
- Role-based access limits allowed operations for different types of users
- No strict dependency on platform or Linux distribution
- Possible integration with version control systems, bug trackers, and automated notification facilities

The Results

The solution allowed to reduce time for engineering builds and adopting the new Linux distributions and hardware platforms, while achieving higher build quality and faster delivery.

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