

## Software Automation Solutions

There are different kinds of automation required during a software development cycle- for example Software build automation, Software test automation, process automation etc. We have provided solutions to this kind of automation required by our clients.

### What problem client / we wanted to solve?

- We wanted to provide daily automated build generation for various Linux based storage and networking products.
- Automate End-to-End Product verification test suite for Continuous Data Protection (CDP) product.
- Automate Basic Verification Test suite (BVT) for Backup and Storage product.

### Any business specific requirements:

For BVT automation, the application was developed on Windows platform and whenever there was a new build generation, the BVT automation would trigger and perform desirable test cases and report the results and important logs to user. Here the challenge was to deliver the automation framework in less than one month.

### Competencies & Technical Skills/Expertise Demonstrated:

- Automated the daily build process for Linux using shell scripts and cron daemon.
- Automated the CDP product using shell script. The biggest challenge was to test the CDP support across reboot.

### Complex technical issues solved:

The build automation also involves support of kernel driver for all released kernel versions of a particular Linux distribution. To compile the kernel driver for any particular kernel version, kernel-devel utilities of that version should be present on the system. A small automation was developed to setup the build system such that all these dependencies get automatically downloaded and installed on the build system.

### Value addition from client perspective:

Generation of daily builds manually is a time consuming process. From the client's perspective there is a lot of time saved in daily builds and setting up of a build system with required dependencies.

Similar time and cost saving is experienced by our clients for BVT automation and CDP product automation

### Technologies Used:

Shell script, Perl, cron, STAF-STAX framework, Autoit.