

Test It (Automated Testing in Omnis and Beyond)

Brief

Learn how to add automated testing to both new and existing code using the OmnisTAP (Omnis Studio) and pgTAP (PostgreSQL) frameworks and platform-agnostic testing techniques.

Full Description

Automated testing protects against regressions, provides confidence for refactoring, and lowers the barrier to introducing new developers to your projects. Testing is not an optional step in modern software development. It is as standard as encrypting network connections, and highly applicable to the Omnis community.

We'll walk through core concepts of testing, including assertions, seams, mocks, and refactoring. Special attention to testing legacy, "spaghetti code" will be made so you can apply testing concepts to your existing code base. Even if you don't add automated testing to your development cycle, writing testable code is a great way to write better code.

With core testing concepts in mind we'll review two specific testing frameworks—OmnisTAP and pgTAP.

OmnisTAP is used for unit and integration testing in Omnis Studio, including by Omnis Software itself. Learn how to ensure bugs stay fixed and know when something breaks before it ships. Want to try a new technique or offload client-side code to a backend API or database function? Worried an Omnis Studio update might break something? OmnisTAP can help with these challenges and more.

pgTAP is an open-source tool for automated testing of PostgreSQL databases, including functions, schemas, and permissions. We'll walk through writing database tests and introduce Suran's stubbing facility for adding mocks to function testing. Even if you aren't a PostgreSQL shop, these techniques are highly valuable and applicable for any backend database system.

Learn how testing can save you hours of headaches, pain, and frustration, all while leveling up your code!

Ship It (Automate your Omnis SLDC)

Brief

Use automation to power your software development lifecycle so you can focus on what you really want to do—solve interesting problems using Omnis.

Full Description

“Real Artists Ship” is a quote attributed to the late Steve Jobs. As a developer, you are a software artist, masterfully crafting systems, solutions, and designs to solve problems and delight your users. EurOmnis offers new insights and invaluable tips and techniques to hone your craft, but ultimately, you need to deliver your app, and who wants to grind through the repetitive and boring steps of software deployment? Instead, we should automate everything!

At Suran, we rely heavily on automation for our software development lifecycle (SDLC). Everything from tracking issue statuses to updating to a new Omnis release to shipping beta versions of our applications has automation powering it. Touring Suran’s processes is intended as a launchpad to discuss the session attendees’ own unique challenges and opportunities.

Some of the technologies covered will be:

- Jenkins
- Jira
- git
- OmnisCLI
- OmnisTAP
- pgTAP
- Bash scripting
- Rundeck
- SaltStack
- and more!

Learn how to minimize the mundane of building, testing, and deploying so you can maximize your time writing (and frequently shipping!) great software using Omnis.