Testing the openSUSE Distribution

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Overview Testing

Internal Testing Teams at SUSE

Alphas
  • Validation

Betas & Release Candidates
  • Component
  • Stress & Kernel

Community
  • The Community Contribution
  • Support the Community
SUSE Quality Assurance (QA)
Internal Testing Teams at SUSE

Automation
- Component (Packages & Areas)
- System (Networking/Apps)
- Virtualization
- Feature Coverage (without Kernel)

Kernel
- All Kernel Related (System Level & Driver)
- Certification
- Infrastructure
- Feature Coverage (Kernel only)
Alphas - Validation

Different Types of Installs

• Patterns
  (Default KDE / GNOME, All Patterns)
• Methods
  (CD / DVD Media Kit, Network)
• Architectures (x86, x86-64, ...)

Upgrades

• From Last Released Version
  (e.a. openSUSE 10.2 → openSUSE 10.3 Alpha *)
Alphas - Validation

Product Registration
  • Registration During Installation
  • Adding Update Source During Installation

Special Request Tests
  • Test Special New Parts
    (e.a. GNOME at New Location After Update)
Alphas - Validation

Basic Application:
- YaST2
- Konqueror
- Kontakt
- Nautilus
- Evolution
- OpenOffice
- Firefox

Kernel:
- LTP
Alphas - Validation

Consider Results:
- Determine if Build will become Alpha

If Alpha:
- Create list of the “Most Annoying Bugs”
- “Ship” Alpha
Betas & RCs - Component

Area

Update from FTP

Action:
• Start the Update by Booting From CD/DVD
• Use FTP Install Server As Source for Update

Expected Results:
• Update Process Succeeds Without Any Problems
• All Packages Are Updated to New Version / Release Number
Betas & RCs - Component

Package

Perl-Bootloader: Primary & Logical Partition

Action:
• Install /boot on a Primary Partition
• Install / on a Logical Partition

Expected Results:
• Check that Bootloader gets installed correctly into the /boot Partition
Betas & RCs - Stress & Kernel

- Bonnie
- Buildcrunch
- DBench
- FTPload
- File System Stress
- LMbench
- LTP
- Memeater
- Memtester

- Module Loading
- Newburn
- Netperf
- NIC Bonding
- Process Stress
- Sched Stress
- Reaim
- Tiobench
Community - Contribution

Test Cases:
- Test Cases from Projects
- Automatic Tests from Projects

Testing:
- Test on Various Hardware
- Tests from internal Testplan (Testopia)
- Tests That Are Not Covered by SUSE QA
- Report Bugs via Bugzilla
Community - Support

Publish Test Plans and Test Cases
- Show What Will be Tested Internally
- Avenue for feedback to Improve Tests

Test Automation:
- Assistance With Automated Test Scripts
- Provide Tools to Develop and Run External Tests and Scripts
Community - Support

SUSE Tools For Automation:

• HAMSTA
  “HArdware Maintenance and Shared Test Automation”

Enable Networking and Tracking of Local Test Automation by

- Grouping Several Machines
- Installing Them via Autoyast
- Running the Special Test Cases
- Collecting the Results

• Library / Basic API with Common Used Functions
Community - Support

Get in Touch:

• openSUSE Testing Mailing List
  testing@opensuse.org

• QA Team Page
  http://en.opensuse.org/QA_Team
Questions?
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