Red Hat Linux Project Quality Assurance Guide

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Introduction

This document will describe the processes and mechanisms for QA testing of the project. Key focus areas include infrastructure, individual package testing, installation testing, release-engineering, kernel testing, toolchain, and general application testing.

Chapter 1. Infrastructure

QA will be supported by the following processes and mechanisms: bugzilla, installation test matrix, rel-eng test matrix, kernel test matrix, general applications test matrix, toolchain matrix

bugzilla will be used for defect tracking. FIXME

The installation test matrix will be available at FIXME. Discussion within the community using forums (FIXME) will determine matrix contents.

The release engineering test matrix will be available at FIXME. Discussion within the community using forums (FIXME) will determine matrix contents.

The kernel test matrix will be available at FIXME. Discussion within the community using forums (FIXME) will determine matrix contents.

The general applications test matrix will be available at FIXME. Discussion within the community using forums (FIXME) will determine matrix contents.

The toolchain test matrix will be available at FIXME. Discussion within the community using forums (FIXME) will determine matrix contents.

Chapter 2. Individual Packages

Fundamental topics for package testing include: knowing what package versions are newest, getting newest packages, specific package test strategies, etc.

Chapter 3. Installation

Fundamental topics for installation testing include: knowing where latest test trees are, where current test matrix is, choosing a case, reporting results.

Product choices may include different milestone versions. Each milestone will have a specified set of deliverables (ie distribution ISOs). A testing matrix for each set of ISOs will be used to track test results. Acceptance of the product will be based on positive test results for each of the well defined acceptance criteria. Acceptance criteria for each set of deliverables will be determined by discussion within the community.

Arch choices may include x86 initially, and other arches may be considered in the future as well (prioritized into tiers).

The following language choices will be tested as part of the install process: FIXME

The following install media choices will be tested: CDROM, DVD, FTP, FTPdisc, HTTP, HTTPdisc, hard drive, hard-drive DVD, NFS, NFS DVD, NFSiso, Updates CD.

The following install types will be tested: default custom, default server, default workstation, default desktop, everything, full server, full workstation, full desktop, minimal.

The following special topics will be addressed in testing: kickstart, serial console installs, remote GUI installs (vnc), important hardware (generic), post-install automatic network connectivity, important hardware (laptops), legacy system installs (ie how does older hardware behave), etc.

Chapter 4. Release Engineering

Fundamental topics for release engineering include: build system usage, catalog and location of test items.

Chapter 5. Kernel Testing

Fundamental topics for package testing include: knowing what package versions are newest, getting newest packages, specific package test strategies, etc.

Chapter 6. Toolchain

Fundamental topics for toolchain testing include: FIXME

Chapter 7. General Applications

Fundamental topics for testing of general applications include: FIXME