Deployment Verification

Resources on how to verify that a deployment or software package is of sufficient quality for its users.

Table of Contents:
- Perspectives on Deployment Verification
- How To
- Specific Environments
- Tools
- Further Reading
- Suggest a Resource!

Below we have compiled publicly available sources from around the world that present views on Deployment Verification.

Perspectives on Deployment Verification

Gartner Magic Quadrant: Application Release Automation

Gartner. Download the full report

- Whitepaper: The Benefits of Deployment Automation for Deployment Verification
electric-cloud.com
- Book: Compositional Verification Using CADP of the ScalAgent Deployment Protocol for Software Components - Springer
  Frédéric Tronel, Frédéric Lang, Hubert Garavel
  link.springer.com
- Best Practices for Risk-free Deployment
  theserverside.com

How To

- ConfigMgr Tech Preview - Deployment Verification!
  myitforum.com
- PebbleSteps Deployment Verification Test Assertions
  pebblesteps.com

Specific Environments

- Java - Understanding Signing and Verification (The Java™ Tutorials > Deployment > Packaging Programs in JAR Files)
  docs.oracle.com

Tools

- ElectricFlow - Automate Deployments and Provides Shared Visibility and Verification Across the Deployment Process
  electric-cloud.com
- OpenStack - WhatTheStack? - A Tool Based on Tempest to Verify your OpenStack-based Deployments
  Nick (Nicolas) Barcet, Christian Schwede
Further Reading

- **Software Deployment Process** — Resources offering general descriptions of the deployment process, deployment in specific environments, how deployment works in specific tools, and examples of deployment processes at Amazon, GitHub and more.
  - **Software Deployment Best Practices** — Resources offering software deployment best practices and guidelines, deployment recommendations for specific environments, and examples of deployment best practices used by real organizations.
  - **Software Deployment and Release Requirements** — Resources on the relation and dependency between the requirements defined for a release, and the resulting deployments of that release.
  - **Compliance and Auditing in Software Deployment** — Resources on how to manage deployments subject to regulation or contractual compliance, with the requirement to enable auditing by a third party.
  - **Examples of Software Deployment Process** — Resources offering general descriptions of software deployment process, and examples of deployment processes at Amazon, GitHub and more.
  - **Software Deployment Process with Specific Technologies** — Resources about how software deployment works in specific tools, including Octopus, Puppet, and other commercial and open-source technologies.

- **Deployment Automation** — Deployment automation allows applications to be deployed across the various environments used in the development process, as well as the final production environments.
  - **Deployment Automation Tools** — Deployment Automation Tools help organizations improve the speed and quality of software releases, and address the challenges of manual software deployment.
  - **Continuous Deployment** — Continuous Deployment is the practice of continuously pushing to production new versions of software under development.
  - **Model-Driven Deployments** — Model Driven Deployments help organizations automate complex deployments, in order to speed up releases and increase software quality.
  - **Software Deployment Scripts** — Resources on automating deployments using scripts, typically written in-house or repurposed by operations staff or release engineers.
  - **Deployment Automation Best Practices and Approaches** — A comprehensive list of deployment automation best practices from leading experts of the field.
  - **Deployment Automation Using Specific Tools** — A comprehensive list of Deployment Automation how to guidelines and tutorials using specific tools such as Docker, Ant, Jenkins and Capistrano.
  - **Deployment via Continuous Integration Tools** — Resources on how to deploy software applications using Continuous Integration tools like Jenkins and TeamCity.
  - **Deployment Using Containers** — Resources on how to deploy software applications using container frameworks such as Docker and CoreOS.

- **Types of Software Deployments** — Resources on how to deploy complex software on different contexts, environments and stacks.
  - **Deployments in the SDLC** — Deploying software at different stages of the Software Development Lifecycle - development, testing and production.
  - **Deploying Locally, Virtualized or on the Cloud** — Resources on how to deploy software to different computing models: local machines, virtualized machines or cloud instances.
  - **Deployment by Type of Application** — Resources on how to deploy different types of applications, including web apps, mobile apps, and enterprise
applications.
• **Deployment by Stack** — Resources on how to deploy applications on common technology stacks such as J2EE, LAMP and OpenStack.
• **Deployment Planning** — General resources on deployment planning, deployment in specific environments such as Geronimo, Oracle, WebSphere, and examples of deployment planning at real organizations.
• **Examples of Deployment Planning** — General resources on deployment planning, including detailed examples of software deployment planning at real organizations.
• **Software Deployment Checklist** — General resources on what a deployment checklist should contain, and specific checklists for general deployments, and for deploying in specific environments such as Google Cloud, Django and Drupal.
• **Deployment Plan Template** — Resources offering document templates that can be used to plan complex deployments, and examples of deployment templates used by real organizations.

**Gartner Magic Quadrant: Application Release Automation**

**Gartner.** [Download the full report](#)

**Suggest a Resource!**

Know an online resource which could be relevant for this wiki page? We're constantly updating our wiki and will be happy to review it!

Submit a URL for Inclusion in the Wiki