

svn to git migration with history

svn to git migration with history is a critical process for organizations seeking to leverage the power of distributed version control systems while preserving their project's complete revision history. Migrating from Subversion (SVN) to Git involves transferring all existing code, branches, tags, and commit metadata accurately to ensure continuity and traceability. This article explores the importance of maintaining history during migration, best practices, common challenges, and practical tools to facilitate a smooth transition. Understanding these aspects is essential for developers, project managers, and DevOps teams aiming to modernize their version control workflows without losing valuable historical data. The discussion also covers step-by-step procedures, verification techniques, and strategies for handling large repositories or complex branching models. This comprehensive guide to svn to git migration with history prepares teams to upgrade their source control systems effectively and with confidence.

- Understanding the Importance of Preserving History in Migration
- Preparing for svn to git Migration
- Tools and Techniques for Migrating svn to git with History
- Step-by-Step Guide for svn to git Migration with History
- Common Challenges and Solutions in Migration
- Post-Migration Best Practices

Understanding the Importance of Preserving History in Migration

Preserving the full history during svn to git migration with history is essential for maintaining project integrity, auditability, and developer productivity. Historical data includes commit messages, author information, timestamps, branches, and tags, all of which provide context for code changes over time. Losing this information can lead to confusion, hinder debugging efforts, and reduce the ability to track down the origins of bugs or features. Additionally, retaining a complete history ensures compliance with internal policies and external regulations that may require traceability of changes.

Benefits of Keeping History Intact

Maintaining the revision history during migration offers multiple benefits:

- **Traceability:** Enables tracking of who made changes and why, facilitating better project management.
- **Accountability:** Supports compliance and audit requirements by preserving original commit metadata.
- **Continuity:** Allows developers to continue working without losing context or needing to reconstruct past work.
- **Branch and Tag Preservation:** Ensures that important development lines and release points are retained.
- **Efficient Debugging:** Historical commits assist in identifying when and why bugs were introduced.

Preparing for svn to git Migration

Thorough preparation is vital to ensure a successful svn to git migration with history. This phase involves assessing the existing SVN repository, planning the migration strategy, and setting up the environment for the transition. Proper preparation minimizes downtime, reduces risks, and helps manage stakeholder expectations.

Analyzing the SVN Repository

Before migration, it is important to analyze the SVN repository structure and contents. This includes:

- Identifying trunk, branches, and tags layout.
- Evaluating repository size and complexity.
- Reviewing commit history for anomalies or inconsistencies.
- Checking for any SVN externals or special configurations.

This analysis informs the migration approach and helps anticipate potential issues.

Planning the Migration Strategy

Planning entails deciding on the migration scope and approach. Key considerations include:

- Determining whether to migrate the entire repository or selected parts.
- Choosing between a one-time migration or incremental synchronization.
- Defining how branches and tags will be mapped in Git.
- Setting timelines and allocating resources for execution.

Preparing the Environment

Setting up tools and infrastructure before starting the migration is crucial. This includes installing Git and migration utilities, configuring access permissions, and establishing backup procedures. Testing migration in a sandbox environment helps validate the process before full-scale execution.

Tools and Techniques for Migrating svn to git with History

Several tools and techniques are available to facilitate svn to git migration with history, each with advantages and limitations. Selecting the right tool depends on repository size, complexity, and specific project requirements.

Common Migration Tools

Popular tools for migrating SVN repositories include:

- **git svn:** A built-in Git command that allows incremental migration and fetches SVN history directly into a Git repository.
- **svn2git:** A user-friendly wrapper around git svn that simplifies branch and tag conversion.
- **SubGit:** A commercial tool providing bidirectional synchronization and seamless migration with history.
- **reposurgeon:** A powerful tool for complex repository transformations and history editing.

Techniques for Effective Migration

Best practices for using these tools include:

- Mapping SVN branches and tags to Git correctly to avoid history loss.
- Using incremental cloning to manage large repositories.
- Cleaning up or filtering unnecessary data before migration to optimize repository size.
- Verifying commit metadata to ensure accuracy.

Step-by-Step Guide for svn to git Migration with History

This section outlines a practical step-by-step procedure for migrating an SVN repository to Git while preserving the full commit history.

Step 1: Install Required Tools

Ensure Git and the chosen migration tool (e.g., `git svn` or `svn2git`) are installed and properly configured on the migration system.

Step 2: Clone the SVN Repository

Use the migration tool to clone the SVN repository. For example, with `git svn`, the command includes specifying the trunk, branches, and tags paths to capture the full structure.

Step 3: Convert Branches and Tags

After cloning, convert SVN branches and tags into Git branches and tags. This may involve renaming and restructuring to align with Git conventions.

Step 4: Verify the Migration

Check the migrated repository to ensure all commits, branches, tags, and author information are intact. Use `Git log` and branch listing commands to confirm completeness.

Step 5: Push to a Remote Git Repository

Once verified, push the migrated repository to the target Git server or hosting platform to enable team access.

Step 6: Communicate and Train the Team

Inform developers about the migration completion and provide training on Git workflows to ensure a smooth transition.

Common Challenges and Solutions in Migration

During svn to git migration with history, several challenges may arise that require careful handling to avoid data loss or workflow disruption.

Handling Large Repositories

Large SVN repositories can slow down migration and consume significant resources. Solutions include:

- Performing incremental migrations in smaller segments.
- Excluding obsolete branches or files.
- Using powerful hardware and optimized migration tools.

Dealing with Complex Branching Models

Complex SVN branch structures may not map straightforwardly to Git. It is important to:

- Analyze branch relationships thoroughly.
- Customize migration scripts to preserve branching logic.
- Test migration outcomes on a sample repository before full execution.

Preserving Author Information

SVN and Git store author metadata differently, which can cause inconsistencies. Mitigation involves creating an authors mapping file to translate SVN usernames to Git-compatible author details.

Post-Migration Best Practices

After completing svn to git migration with history, implementing best practices ensures repository health and team productivity.

Repository Cleanup and Optimization

Perform cleanup activities such as pruning unnecessary branches, compressing Git objects, and setting up branch protection rules to maintain repository integrity.

Updating Build and Deployment Pipelines

Modify continuous integration and deployment systems to accommodate Git workflows, ensuring automated processes continue functioning correctly.

Ongoing Training and Support

Provide ongoing education to developers about Git best practices, branching strategies, and collaboration techniques to maximize the benefits of the migration.

Frequently Asked Questions

What is the best way to migrate an SVN repository to Git while preserving history?

The best way to migrate an SVN repository to Git while preserving history is to use the git-svn tool. It allows you to clone the SVN repository into a Git repository, maintaining all commit history, branches, and tags. The basic command is `git svn clone <SVN_URL> --stdlayout`.`

How can I migrate SVN branches and tags to Git?

When migrating from SVN to Git using `git-svn`, use the `--stdlayout` option if your SVN repository follows the standard trunk/branches/tags structure. This will automatically map SVN branches and tags to Git branches and tags. For non-standard layouts, you can specify branch and tag paths explicitly with `-T`, `-b`, and `-t` options.

Are there any tools other than `git-svn` for migrating SVN to Git with full history?

Yes, besides `git-svn`, tools like `svn2git` (a Ruby gem) and `SubGit` can be used for migrating SVN repositories to Git. `SubGit` provides a bidirectional synchronization and usually offers a smoother migration experience with full history preservation.

How do I handle large SVN repositories during migration to Git?

For large SVN repositories, the migration process can be time-consuming. Using `SubGit` is recommended since it performs incremental imports and is optimized for large repositories. Alternatively, you can perform shallow clones with `git-svn` or split the repository into smaller parts if feasible.

Can I keep SVN and Git repositories in sync after migration?

Yes, it is possible to keep SVN and Git repositories in sync after migration using tools like `SubGit`, which provides bidirectional synchronization. `git-svn` can also be used for this purpose but is more complex and less efficient for ongoing synchronization.

How do I migrate SVN commit authors to Git?

You can map SVN commit authors to Git by creating an authors file that specifies the mapping between SVN usernames and Git author names/emails. When using `git-svn`, you provide this file with the `--authors-file` option during cloning to preserve correct author information.

What are common pitfalls to avoid when migrating SVN to Git with history?

Common pitfalls include not preserving SVN branches and tags correctly, losing author information, ignoring large files or binary assets during migration, and not testing the migration thoroughly before switching. It's important to understand the SVN repository structure, properly map authors, and verify the migrated Git repository before finalizing the migration.

Additional Resources

1. *From SVN to Git: A Comprehensive Migration Guide*

This book provides a detailed walkthrough for developers and teams transitioning from Subversion (SVN) to Git. It covers the fundamentals of both version control systems, explains how to preserve history during migration, and offers best practices to ensure a smooth transition. Practical examples and scripts are included to facilitate automated migration workflows.

2. *Preserving History: Migrating Repositories from SVN to Git*

Focused on maintaining repository history, this title dives deep into techniques for migrating SVN repositories to Git without losing commit information. It addresses common challenges such as dealing with branches, tags, and large repositories. Readers will find step-by-step instructions and troubleshooting tips to retain the integrity of their project history.

3. *SVN to Git Migration: Tools, Techniques, and Strategies*

This book explores the various tools available for migrating from SVN to Git, including git-svn and other third-party utilities. It highlights the strengths and weaknesses of each approach and guides readers through selecting the right strategy for their project size and complexity. Additionally, it covers repository cleanup and optimization post-migration.

4. *Mastering Version Control: Transitioning from Subversion to Git*

Aimed at professionals familiar with version control systems, this book explains the conceptual differences between SVN and Git and how those differences impact migration. It provides practical advice on preserving commit history, handling branches, and managing user permissions during the transition. The author also discusses integrating Git workflows into existing development pipelines.

5. *Seamless SVN to Git Migration for Enterprise Projects*

Designed for enterprise environments, this book addresses the unique challenges of migrating large-scale SVN repositories to Git. It covers preserving detailed history, maintaining compliance and audit trails, and coordinating migration across multiple teams. Strategies for minimizing downtime and ensuring data integrity during the migration process are also discussed.

6. *Git Migration Strategies: Moving from SVN with Complete History*

This title offers a strategic approach to SVN to Git migration, emphasizing the importance of planning and testing before executing the migration. It provides workflows for importing SVN history accurately and handling complex repository structures. Readers will learn how to validate the migration outcome and transition their teams to Git effectively.

7. *Converting SVN Repositories to Git: A Practical Handbook*

A hands-on guide that walks readers through the entire migration process, from initial assessment to post-migration cleanup. The book includes scripts, command examples, and troubleshooting advice for preserving commit history and metadata. It also covers common pitfalls and how to avoid them during the transition.

8. *History Retention in SVN to Git Migrations: Best Practices*

This book focuses specifically on techniques to ensure that all historical data, including commit messages, authorship, and timestamps, are accurately maintained when migrating from SVN to Git. It explains how to handle SVN properties and branches to retain a complete project timeline. Readers gain insights into validating and auditing migrated repositories.

9. *Version Control Evolution: Migrating from SVN to Git with History Intact*

Exploring the evolution of version control systems, this book contextualizes the move from SVN to Git and its benefits. It provides detailed migration procedures designed to preserve full commit history and project metadata. The author also discusses post-migration best practices, including adopting Git workflows and continuous integration setups.

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svn to git migration with history: Version Control with Git for New Developers: A Practical Guide with Examples William E. Clark, 2025-04-19 Version control is fundamental in modern software development, enabling individuals and teams to manage changes, collaborate seamlessly, and maintain the integrity of their codebases. *Version Control with Git for New Developers: A Practical Guide with Examples* delivers a comprehensive introduction to Git, focusing on the essential concepts and workflows that empower developers to track, organize, and safeguard their work. Starting from first principles, the book explains the rationale for version control, outlines the contrasting approaches of centralized and distributed systems, and provides a clear rationale for adopting Git in contemporary projects. Each chapter presents practical guidance through the stages of setting up Git, managing repositories, and performing everyday operations such as staging, committing, branching, and merging. The text includes careful explanations of collaboration strategies, conflict resolution, and the use of both command-line and graphical tools. Readers learn how to interact with remote repositories, integrate with popular platforms, and navigate the challenges of real-world team development using proven workflows and best practices. Intended for students, aspiring developers, and anyone new to version control, this guide supports a hands-on learning approach, reinforced by concrete examples and troubleshooting advice. By the conclusion, readers will be equipped to confidently organize projects, contribute to collaborative efforts, and understand the inner workings of Git. The concluding resources and reference materials ensure continued growth, making this book a valuable foundation for both self-study and formal coursework in software engineering.

svn to git migration with history: Red Hat Certified Specialist In Cidc Certification Prep Guide : 350 Questions & Answers CloudRoar Consulting Services, 2025-08-15 Get ready for the Red Hat Certified Specialist in CICD exam with 350 questions and answers covering continuous integration, continuous delivery, DevOps practices, Jenkins, automation, containerization, and Red Hat best practices. Each question provides practical examples and explanations to ensure exam readiness. Ideal for DevOps engineers and IT professionals. #RedHatCertification #CICD #DevOps

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svn to git migration with history: *Git Best Practices Guide* Eric Pidoux, 2014-11-20 If you are a developer and you want to completely master Git without heavy theory, this is the book for you. A reasonable knowledge level and basic understanding of Git concepts will get you started with this book.

svn to git migration with history: *Git and GitHub* Alisa Turing, AI, 2025-01-13 Git and GitHub offers a comprehensive exploration of modern version control and collaborative software development, addressing the critical challenge of how development teams can effectively work together on complex projects. The book uniquely bridges the gap between basic version control concepts and advanced collaborative workflows, making it essential reading for both newcomers and experienced developers in today's distributed work environment. Starting with Git's historical origins as Linus Torvalds' solution for Linux kernel development, the book progressively builds understanding from fundamental commands to sophisticated collaborative techniques. Readers learn through practical, hands-on examples drawn from real-world open-source and commercial projects, covering everything from basic repository management to advanced topics like merge strategies and continuous integration workflows. The material is particularly valuable for its emphasis on understanding the principles behind commands rather than merely memorizing them. The book distinguishes itself through its systematic approach to teaching collaborative development practices, incorporating interactive examples that readers can follow along with on their own machines. It effectively connects version control concepts to broader software development principles, including DevOps practices and project management methodologies. While focusing primarily on Git and GitHub, the content maintains an accessible technical tone that balances detailed explanations with practical applications, making complex concepts digestible for readers at all skill levels.

svn to git migration with history: *Git Notes For Professionals* Dr. Ashad ullah Qureshi, 2023-03-01 Git is a tool that's used to manage multiple versions of source code edits that are then transferred to files in a Git repository, GitHub serves as a location for uploading copies of a Git repository. In a sense, then, there's no comparison when it comes to Git vs. GitHub as far as their function.

svn to git migration with history: *Git: Mastering Version Control* Ferdinando Santacroce, Aske Olsson, Rasmus Voss, Jakub Narebski, 2016-10-25 Learn everything you need to take full control of your workflow with Git with this curated Learning Path - dive in and transform the way you work About This Book Master all the basic concepts of Git to protect your code and make it easier to evolve Filled with practical recipes that will teach you how to use the most advanced features of the Git system Harness the full power of the Git version control system to customize Git behavior, manipulate history, integrate external tools, and explore platform shortcuts Who This Book Is For This learning path is for software developers who want to become proficient at using the Git version control system. A basic understanding of any version control system would be beneficial. What You Will Learn Transport your work to a remote repository in a centralized manner Experiment with your code without affecting functional code files Explore some tools used to migrate to Git from other versioning systems without losing your development history Understand the Git data model and how you can navigate the database with simple commands Debug with Git and use various techniques to find faulty commits Customize Git behavior system-wide, on a per-user, per-repository, and per-file basis Master administering and setting up Git repositories, configuring access, finding and recovering from repository errors, and performing repository maintenance Chose a workflow and configure/set up support for the chosen workflow In Detail Git is one of the most popular types of Distributed Version Control System. Since its inception, it has attracted skilled developers due to its robust, powerful, and reliable features. Like most powerful tools, Git can be hard to approach for the newcomers. However, this learning path will help you overcome this fear and become adept at all the basic and advanced tasks in Git. This course starts

with an introduction to version control systems before you delve deeply into the essentials of Git. This serves as a primer for the topics to follow such as branching and merging, creating and managing a GitHub personal repository, and fork and pull requests. You'll also learn how to migrate from SVN using Git tools or TortoiseGit and migrate from other VCSs, concluding with a collection of resources, links, and appendices. As you progress on to the next module, you will learn how you can automate the usual Git processes by utilizing the hook system built into Git. It also covers advanced repository management, including different options to rewrite the history of a Git repository before you discover how you can work offline with Git, how to track what is going on behind the scenes, and how to use the stash for different purposes. Moving forward, you will gain deeper insights into Git's architecture, its underlying concepts, behavior, and best practices. It gives a quick implementation example of using Git for a collaborative development of a sample project to establish the foundation knowledge of Git operational tasks and concepts. By exploring advanced Git practices, you will attain a deeper understanding of Git's behavior, allowing you to customize and extend existing recipes and write your own. This Learning Path is a blend of content, all packaged up keeping your journey in mind. It includes content from the following Packt products: *Git Essentials*, Ferdinando Santacroce *Git Version Control Cookbook*, Aske Olsson and Rasmus Voss *Mastering Git*, Jakub Narebski *Style and approach* Its step-by-step approach with useful information makes this course the ultimate guide to understanding and mastering Git. This course will show the road to mastery example by example, while also explaining the mental model of Git.

svn to git migration with history: *Git Essentials* Ferdinando Santacroce, 2017-11-08 Dive and explore into the latest addons of the latest Git. About This Book Master all the basic concepts of Git to protect your code and make it easier to evolve Use Git proficiently, and learn how to resolve day-by-day challenges easily This step-by-step guide is packed with examples to help you learn and work with Git's internals Who This Book Is For If you are a software developer with little or no experience of versioning systems, or you are familiar with other centralized versioning systems, then this book is for you. If you have experience in server and system management and need to broaden your use of Git from a DevOps perspective, this book contains everything you need. What You Will Learn Master Git fundamentals Be able to visualize, even with the help of a valid GUI tool Write principal commands in a shell Figure out the right strategy to run change your daily work with few or no annoyances Explore the tools used to migrate to Git from the Subversion versioning system without losing your development history Plan new projects and repositories with ease, using online services, or local network resources In Detail Since its inception, Git has attracted skilled developers due to its robust, powerful, and reliable features. Its incredibly fast branching ability transformed a piece of code from a niche tool for Linux Kernel developers into a mainstream distributed versioning system. Like most powerful tools, Git can be hard to approach since it has a lot of commands, subcommands, and options that easily confuse newcomers. The 2nd edition of this very successful book will help you overcome this fear and become adept in all the basic tasks in Git. Building upon the success of the first book, we start with a brief step-by-step installation guide; after this, you'll delve into the essentials of Git. For those of you who have bought the first edition, this time we go into internals in far greater depth, talking less about theory and using much more practical examples. The book serves as a primer for topics to follow, such as branching and merging, creating and managing a GitHub personal repository, and fork and pull requests. You'll then learn the art of cherry-picking, taking only the commits you want, followed by Git blame. Finally, we'll see how to interoperate with a Subversion server, covering the concepts and commands needed to convert an SVN repository into a Git repository. To conclude, this is a collection of resources, links, and appendices to satisfy even the most curious. *Style and approach* This short guide will help you understand the concepts and fundamentals of GIT is a step-by-step manner.

svn to git migration with history: Effective Subversion Administration Richard Johnson, 2025-06-10 *Effective Subversion Administration* *Effective Subversion Administration* is the definitive guide for professionals tasked with deploying, scaling, and securing Subversion in modern enterprise environments. This comprehensive resource explores Subversion's nuanced role among

version control systems, offering clear insight into its core architecture, performance considerations, and repository design strategies that enable organizations to achieve both scalability and maintainability. Readers benefit from in-depth discussions on server architectures, data management, access protocols, and performance tuning for large-scale deployments, ensuring an optimal foundation for mission-critical version control operations. The book delves deeply into advanced installation and configuration techniques, including automated setup with configuration management tools, fine-tuned performance adjustments, and robust security strategies tailored to diverse deployment models—including standalone, high-availability clusters, and fully containerized solutions. Administrators will learn to implement sophisticated authentication and authorization frameworks, employ role-based access controls, integrate with directory services, and enforce comprehensive auditing and compliance controls to safeguard repositories and meet stringent regulatory requirements. Recognizing the complex realities of today's DevOps- and cloud-centric world, *Effective Subversion Administration* provides actionable solutions for multi-repository automation, continuous integration pipelines, disaster recovery, and global, distributed architectures. Through real-world guidance on workflow automation, migration strategies, interoperability with modern tools, cloud deployment patterns, and the future evolution of Subversion—including AI-driven operations—the book equips technology leaders to modernize and future-proof their version control infrastructure. Whether you are overseeing enterprise-scale migrations or optimizing for cutting-edge DevOps, this is an indispensable manual for ensuring robust, secure, and agile Subversion operations.

svn to git migration with history: Mastering GitLab 12 Joost Evertse, 2019-08-02 An expert guide to helping you use DevOps techniques with the latest GitLab version to optimize and manage your software workflow Key FeaturesDelve into GitLab's architecture, and install and configure it to fit your environmentLearn about the underlying principles of Agile software development and DevOpsExplore Gitlab's features to manage enterprise cloud-native applications and servicesBook Description GitLab is an open source repository management and version control toolkit with functions for enterprises and personal software projects. It offers configurability options, extensions, and APIs that make it an ideal tool for enterprises to manage the software development life cycle. This book begins by explaining GitLab options and the components of the GitLab architecture. You will learn how to install and set up GitLab on-premises and in the cloud, along with understanding how to migrate code bases from different systems, such as GitHub, Concurrent Versions System, Team Foundation Version Control, and Subversion. Later chapters will help you implement DevOps culture by introducing the workflow management tools in GitLab and continuous integration/continuous deployment (CI/CD). In addition to this, the book will guide you through installing GitLab on a range of cloud platforms, monitoring with Prometheus, and deploying an environment with GitLab. You'll also focus on the GitLab CI component to assist you with creating development pipelines and jobs, along with helping you set up GitLab runners for your own project. Finally, you will be able to choose a high availability setup that fits your needs and helps you monitor and act on results obtained after testing. By the end of this book, you will have gained the expertise you need to use GitLab features effectively, and be able to integrate all phases in the development process. What you will learnInstall GitLab on premises and in the cloud using a variety of configurationsConduct data migration from the SVN, TFS, CVS, and GitHub platforms to GitLabUse GitLab runners to develop different types of configurations in software developmentPlan and perform CI/CD by using GitLab featuresMonitor and secure your software architecture using Prometheus and GrafanaImplement DevOps culture by introducing workflow management tools in GitLabWho this book is for If you are a software developer, DevOps professional, or any developer who wants to master GitLab for productive repository management in your day-to-day tasks, this book is for you. Basic understanding of the software development workflow is assumed.

svn to git migration with history: GIT Vinay Singh, 2023-06-21 About the Book Agile and Kanban in modern development methodologies have changed the way software development world and business deliveries. The whole efforts are given to migrate from old style traditional centralized

version control systems (VCSs) to a lightweight, distributed version control system (DVCS). As business continuity is an essential requirement in every aspect, especially in Real Time mission-critical applications like financial, defense, banking, and space domain, etc. Git has been around since 2014 and developed as an advanced and modern Version Control System (DVCS). Its following strengths can help you as a git administrator or expert in DevOps and Software development. This book covers all aspects of the advanced version control systems. About the Author Vinay Singh has been a seasoned IT Software Professional for the last 15 Years. His expertise is in DevOps Automation, Cloud Computing & Software Engineering. He is currently Sr. Manager (DevOps) in a reputed firm in Colorado, USA. He worked with Discover Bank, Agilent, AT&T, and Walgreens. He is a guide of several software professionals and a mentor of many IT students worldwide. Vinay Singh holds a Ph.D. in Computers Science and Engineering, M.TECH IT, MS(IT), B.SC Computers. He has published more than 27 Research Papers at international Conferences and Journals. Vinay is certified in AWS Cloud Solution Architect (Associate), Google Cloud Professional Architect and Oracle Weblogic 11g. He is active member of IEEE, ACM and CompTIA. His Google Scholar link: https://scholar.google.com/citations?hl=en&user=PT_e528AAAAJ His Linkedin Link: <https://www.linkedin.com/in/vinay-singh/> Vinay is a positive thinker. He enjoys hiking and biking on nature trails in his leisure. Rakshit Singh is completing his degree in Computer Science. He enjoys writing software in Python and Machine Learning. His area of expertise is Cloud computing and Data science. He is in Canada. Rakshit enjoys playing soccer and has been a member of a soccer club in the USA.

svn to git migration with history: Git in Practice Mike McQuaid, 2014-09-29 Summary Git in Practice is a collection of 66 tested techniques that will optimize the way you and your team manage your development projects. The book begins with a brief reminder of the core version control concepts you need when using Git and moves on to the high-value features you may not have explored yet. Then, you'll dig into cookbook-style techniques like history visualization, advanced branching and rewriting history each presented in a problem-solution-discussion format. Finally you'll work out how to use Git to its full potential through configuration, team workflows, submodules and using GitHub pull requests effectively. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Git is a source control system, but it's a lot more than just that. For teams working in today's agile, continuous delivery environments, Git is a strategic advantage. Built with a decentralized structure that's perfect for a distributed team, Git manages branching, committing, complex merges, and task switching with minimal ceremony so you can concentrate on your code. About the Book Git in Practice is a collection of battle-tested techniques designed to optimize the way you and your team manage development projects. After a brief overview of Git's core features, this practical guide moves quickly to high-value topics like history visualization, advanced branching and rewriting, optimized configuration, team workflows, submodules, and how to use GitHub pull requests. Written in an easy-to-follow Problem/Solution/Discussion format with numerous diagrams and examples, it skips the theory and gets right to the nitty-gritty tasks that will transform the way you work. Written for developers familiar with version control and ready for the good stuff in Git. What's Inside Team interaction strategies and techniques Replacing bad habits with good practices Juggling complex configurations Rewriting history and disaster recovery About the Author Mike McQuaid is a software engineer at GitHub. He's contributed to Qt and the Linux kernel, and he maintains the Git-based Homebrew project. Table of Contents PART 1 INTRODUCTION TO GIT Local Git Remote Git PART 2 GIT ESSENTIALS Filesystem interactions History visualization Advanced branching Rewriting history and disaster recovery PART 3 ADVANCED GIT Personalizing Git Vendoring dependencies as submodules Working with Subversion GitHub pull requests Hosting a repository PART 4 GIT BEST PRACTICES Creating a clean history Merging vs. rebasing Recommended team workflows

svn to git migration with history: **Version Control with Git** Prem Kumar Ponuthorai, Jon Loeliger, 2022-10-21 Track, branch, merge, and manage code revisions with Git, the free and open source distributed version control system. Through a series of step-by-step tutorials, this practical

guide quickly takes you from Git fundamentals to advanced techniques, and provides friendly yet rigorous advice for navigating Git's many functions. You'll learn how to work with everything from small to very large projects with speed and efficiency. In this third edition, authors Prem Kumar Ponuthurai and Jon Loeliger break down Git concepts using a modular approach. You'll start with the basics and fundamental philosophy of Git, followed by intermediate commands to help you efficiently supplement your daily development workflow. Finally, you'll learn advanced Git commands and concepts to understand how Git works under the hood. Learn how to use Git for real-world development scenarios Gain insight into Git's common use cases, initial tasks, and basic functions Use the system for distributed version control Learn how to manage merges, conflicts, patches, and diffs Apply advanced techniques such as rebasing, hooks, and ways to handle submodules

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