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Sign up

DBT Architect Certification Training

2 days (14 hours)

Overview

dbt is now a core component of modern data platforms. It involves challenges related to architecture, security, governance, environment management, and deployment industrialization.

Our dbt Architect training will enable you to master the architecture and advanced administration of a dbt platform in an enterprise context: data warehouse connections, Git integration, environment management, advanced CI, RBAC, SSO,
and collaboration at scale.

You will learn to design, secure, deploy, and monitor a robust dbt implementation capable of meeting the requirements of multi-team organizations. The training also covers dbt Mesh logic, platform administration, and leveraging dbt Catalog to improve discoverability and governance.

By the end of the training, you will be able to define a dbt architecture aligned with business needs, structure dev/staging/production environments, set up appropriate permission levels, and standardize deployments.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Design a secure and scalable dbt enterprise architecture.
- Configure platform, Git, and data warehouse connections according to best practices.
- Set up dev, staging, and prod environments and advanced CI.
- Manage access with RBAC, SSO, SCIM, and service accounts.
- Deploy multi-project governance with dbt Mesh and dbt Catalog.

- Prepare for the official dbt Architect certification exam.

Target Audience

- Data Architects
- Lead Analytics Engineers
- Data Platform Engineers
- dbt Cloud Administrators

Requirements

- Strong proficiency in SQL and data transformation principles
- Prior knowledge of dbt and its common uses in projects
- Experience with a modern data warehouse and Git workflows

dbt Architect Training

[Day 1 - Morning]

dbt platform architecture and integration with the data warehouse

- The role of the dbt Architect in a modern data platform
- Designing a scalable and secure dbt Cloud/Enterprise architecture
- Configuring connections to the data warehouse and choosing an architecture
- Managing authentication methods: OAuth, user accounts, service accounts
- Comparison of integrations: Snowflake, BigQuery, Databricks
- Hands-on workshop: Defining a dbt enterprise architecture and associated connections.

[Day 1 - Afternoon]

Advanced environment and deployment management

- Setting up dev, staging, and production environments
- Configuring environment variables and custom schemas
- Managing Git branches and deployment strategies
- Creating jobs: scheduled, CI, and API-triggered
- Continuous Integration strategies to secure deployments
- Hands-on workshop: Setting up a multi-environment pipeline with CI.

Security, RBAC, and dbt administration

- Designing an RBAC strategy between dbt and the data warehouse

- Implementing SSO (SAML, SCIM) with identity tools
- Managing roles, permissions, and teams at scale
- Securing deployments with service accounts and secret management
- Using webhooks and notifications to monitor operations
- Hands-on workshop: Defining an RBAC matrix and securing a dbt environment.

[Day 2 - Morning]

Data Mesh and multi-project governance

- Introduction to dbt Mesh and domain-oriented architectures
- Organizing dbt projects by business domains
- Managing cross-project dependencies and cross-references
- Defining rules for the publication and reuse of templates
- Balancing team autonomy and central governance

[Day 2 - Afternoon]

Platform observability and optimization

- Using dbt Catalog to analyze lineage
- Identifying critical dependencies and friction points
- Optimizing performance and execution costs
- Implementing monitoring and alerting
- Formalizing operational and governance standards

Preparing for the dbt Architect certification

- Understanding the dbt Architect Certification exam format
- Review of key areas: environments, RBAC, CI, mesh
- Identification of common pitfalls and architectural scenarios
- Success strategies and time management
- Hands-on workshop: Taking the practice exam + review.

Target Audience

This training is intended for both individuals and companies, large or small, seeking to train their teams in new advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

Assessment upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their personal expectations and objectives

regarding the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and the smooth running of the training session.

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training program.