

A promotional banner for Databricks Admin Training. The top left features the 'SQL SCHOOL Premium Quality Training' logo. The main title 'Databricks Admin Training' is in large, bold letters, with 'Admin' in yellow. Below it, the subtitle 'Master Databricks Platform Administration for Real-World Scenarios' is displayed. The background shows a man in a grey blazer smiling, with a laptop in the foreground displaying the Databricks interface. A central cloud icon with the Databricks logo is surrounded by icons for 'Users & Access Management', 'Compute Management', 'Security & Compliance', 'Monitoring & Cost Optimization', 'Unity Catalog & Governance', and 'Workspace Administration'. A horizontal bar at the bottom lists seven topics: 'Workspace Administration', 'Users & Identity Management', 'Compute Administration', 'Unity Catalog & Governance', 'Security Management', 'Monitoring & Troubleshooting', and 'Cost Optimization & Best Practices'. The trainer's name, 'Mr. Sai Phanindra Tholeti', and his experience, 'Chief Mentor | 20+ Years of Industry Experience', are highlighted. The bottom of the banner includes an 'Enroll Now' button, contact information '+91 99514 40801', and the website 'www.sqlschool.com'.

Databricks Admin | Unity Catalog | Security | Compute | Monitoring | Optimization | Azure Databricks | Azure External Tables | IAM

Course Overview

Databricks Admin Training is a hands-on, job-oriented program designed to build practical skills in administering enterprise Databricks environments. Learn workspace and identity administration, compute management, Unity Catalog governance, security, monitoring, cost optimization, Azure integration and production troubleshooting through practical labs and real-time projects.

What You Will Become Capable Of

- ✓ Administer Databricks Accounts & Workspaces
- ✓ Manage Users, Groups & Service Principals
- ✓ Configure & Govern Compute
- ✓ Implement Unity Catalog
- ✓ Secure Databricks & Enterprise Data
- ✓ Integrate Databricks with ADLS Gen2
- ✓ Monitor Usage, Audit & Costs
- ✓ Troubleshoot Production Issues
- ✓ Automate Administration Tasks
- ✓ Manage Enterprise Azure Databricks Environments

Prerequisites

- Basic understanding of databases and cloud concepts
- Basic SQL knowledge recommended
- Basic Azure knowledge helpful but not mandatory
- No prior Databricks Administration experience required

Target Audience

- ✓ SQL Server / Database Administrators
- ✓ Azure Administrators and Cloud Engineers

- ✓ Databricks support and operations professionals
- ✓ Data Engineers moving toward platform administration
- ✓ Production support engineers
- ✓ IT professionals interested in data platform security, governance and operations

Training Approach

Concepts -> Hands-on Labs -> Administration Scenarios -> Troubleshooting -> Real-Time Projects

- **Duration: 6 Weeks**
- **Projects: 1 Real-Time Project**
- **Focus: Databricks Platform Administration with Azure**

DETAILED COURSE CONTENT

Module 1 - Databricks Platform Fundamentals

- Introduction to Databricks and Lakehouse architecture
- Databricks account and workspace concepts
- Control plane and compute plane
- Account Admin vs Workspace Admin responsibilities
- Admin Console overview
- Databricks Runtime basics
- Serverless vs Classic Compute
- Administrator roles and responsibilities

Module 2 - Workspace Administration

- Workspace setup and configuration
- Workspace Admin settings and feature management
- Workspace objects, folders and permissions
- Workspace access management
- DEV / TEST / PROD concepts
- Administrative standards and best practices

Module 3 - User & Identity Administration

- Databricks identity model
- Users, groups and service principals
- Account-level vs workspace-level identities
- Assigning users and groups to workspaces
- Group-based access management and admin roles
- Authentication and SSO concepts
- SCIM / automated provisioning concepts
- Microsoft Entra ID integration overview

Module 4 - Compute Administration

- Databricks compute architecture
- All-purpose, Jobs and Serverless compute
- Runtime selection, worker and driver nodes
- Autoscaling and auto termination
- Compute access modes
- Instance pools

- Libraries and dependencies
- Compute policies
- Cluster event logs and common compute issues

Module 5 - Unity Catalog Administration

- Unity Catalog architecture and metastore concepts
- Catalogs, schemas, tables, views and volumes
- Managed vs external tables
- Storage credentials and external locations
- Object ownership
- GRANT / REVOKE permissions
- Users, groups and privileges
- Data access control and lineage
- Unity Catalog administration best practices

Module 6 - Security Administration

- Databricks security architecture
- Authentication vs authorization
- Role-based access and least privilege
- Personal Access Tokens and OAuth concepts
- Service principal authentication
- Secret management
- Workspace, compute and data permissions
- IP access concepts
- Security troubleshooting

Module 7 - Monitoring & Troubleshooting

- Databricks monitoring fundamentals
- Admin and compute monitoring
- Cluster event logs and job monitoring
- Query history and audit logs
- Introduction to System Tables
- User activity monitoring
- Failed compute troubleshooting
- Access and permission troubleshooting
- Common production support issues
 - Who created this compute?
 - Who accessed sensitive data?
 - Why did the cluster fail?
 - Which compute is underutilized?
 - Which team is consuming the most resources?
 - Why did the monthly Databricks cost increase?

Module 8 - Cost Management

- Databricks consumption and DBU concepts
- Compute cost fundamentals
- Usage monitoring by user, team and workload
- Compute tagging
- Compute policies for cost control
- Autoscaling and auto termination optimization

- Identifying idle resources
- Basic cost optimization

Module 9 - Azure Databricks Architecture

- Azure Databricks architecture
- Azure subscriptions, resource groups and workspace deployment
- Managed resource groups
- Azure Storage and ADLS Gen2 integration
- Azure Databricks authentication
- DEV / UAT / PROD architecture
- Azure administration best practices

Module 10 - Microsoft Entra ID Integration

- Microsoft Entra ID fundamentals
- Users and security groups
- Service principals
- Databricks account identities and identity federation
- Group-based administration
- SSO concepts
- Automated identity provisioning
- Enterprise access-management scenarios

Module 11 - Advanced Unity Catalog Administration

- Enterprise Unity Catalog architecture
- Metastore administration
- Multiple workspace governance and workspace bindings
- Storage credentials and external locations
- Catalog isolation and advanced privileges
- Ownership management
- Service principals with Unity Catalog
- Data lineage and auditing
- Governance design

Module 12 - Azure Storage Administration

- ADLS Gen2 architecture
- Storage accounts and containers
- Azure RBAC concepts
- Databricks access to ADLS
- Managed identities and access connectors
- Storage credentials and external locations
- Troubleshooting storage access
- Securing enterprise data

Module 13 - Databricks Network Security

- Azure Databricks networking concepts
- Public vs private connectivity
- VNet and subnet concepts
- Network Security Groups
- Secure cluster connectivity

- Private Link and private endpoint concepts
- IP access lists and firewall considerations
- Network troubleshooting

Module 14 - Advanced Monitoring & Audit

- Databricks System Tables
- Audit, billing/usage and compute system tables
- Query history and cluster utilization
- User activity and security auditing
- Data-access auditing
- Administrative SQL queries
- Operational dashboards
- Incident investigation

Module 15 - Enterprise Cost Optimization

- Databricks billing architecture
- DBU consumption analysis
- Compute utilization and serverless cost considerations
- Cost attribution using tags
- Department/project-level tracking
- Budget monitoring
- Chargeback and showback concepts
- Compute policies and rightsizing
- Idle resource identification
- Enterprise cost-control strategy

Module 16 – Automations & DevOps for Administrators

- Databricks CLI fundamentals
- Administrative automation
- Service principals for automation
- Infrastructure as Code concepts
- Workspace configuration automation
- Git integrations
- DEV -> UAT -> PROD strategy

Module 17 - Production Support & Troubleshooting

- Administrator support model and incident handling
- User login and permission issues
- Compute startup failures
- Library and runtime problems
- Storage-access failures
- Unity Catalog permission problems
- Performance and job failures
- Cost spikes and audit investigations
- Root Cause Analysis
- Production troubleshooting checklist

Real-Time Project - Databricks Enterprise Administration

Build and administer a practical Databricks environment covering Workspace -> Users & Groups -> Compute -> Policies -> Unity Catalog -> Permissions -> Monitoring -> Cost Control.

- Create users, groups and service principals.
- Configure workspace and compute permissions.
- Implement compute policies and cost controls.
- Create Unity Catalog objects and assign privileges.
- Investigate failed compute and permission issues.
- Identify expensive or idle resources using monitoring data.

What you learn?

In this Hands-On Job Oriented course, you will learn:

- ✓ Databricks Admin
- ✓ Workspace Administration
- ✓ Users & Groups
- ✓ Compute Administration
- ✓ Unity Catalog
- ✓ Security
- ✓ Monitoring
- ✓ Cost Optimization
- ✓ Azure Databricks
- ✓ Microsoft Entra ID
- ✓ ADLS Gen2 Administration
- ✓ Azure Networking
- ✓ DevOps / Automation
- ✓ Production Troubleshooting

Target Job Roles?

This hands-on training course will be helpful for below job roles:

- ✓ Databricks Admin
- ✓ Azure Databricks Admin
- ✓ Data Engineer Admin
- ✓ Platform Architect
- ✓ Data Analyst Admin

BUILD REAL SKILLS. WORK ON REAL PROJECTS. BECOME JOB READY.



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Thank You!

For Enrolling into

Databricks Admin Training

You've taken a great step towards building your career in Modern Data Platforms. We're excited to have you on board!

*Learn
Practice
Grow
Succeed!*

Mr. Sai Phanindra Tholeti
Chief Mentor
20+ Years of Industry Experience


**Live Online
Training**


**Hands-on
Labs**


**Real-Time
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