

Multi-team Airflow setup with domain-based DAG folders. Clear ownership boundaries, shared libraries, and team autonomy.

#airflow #python #data #enterprise #multi-team #domains

# **♦** Project Directory R ZI airflow-platform/ > dags/ > inance/ Finance team DA... init\_.py revenue\_daily.py invoicing.py README.md Team docs > marketing/ Marketing team ... init\_\_.py campaign\_sync.py attribution.py > data platform/ Platform team D... init\_\_.py dbt run.py data quality.py > Common/ Shared DAG util... init\_\_.py alerts.py dag\_factory.py init\_\_.py → □ operators/ init\_\_.py dbt\_operator.py slack\_operator.py → hooks/ init\_.py warehouse\_hook.py include/ > □ sql/ finance/ marketing/ events.json > 🗁 tests/ conftest.py test\_revenue\_daily.py → marketing/ test\_campaign\_sync.py docker-compose.yml pyproject.toml ■ CODEOWNERS GitHub ownership .gitignore

■ README.md

## **Why This Structure?**

Domain-based folders ( finance/ , marketing/ ) give teams clear ownership. Each team manages their own DAGs while sharing common utilities and operators. CODEOWNERS enforces review rules. Tests mirror the DAG structure for easy navigation.

#### **□** Key Directories

dags/{team}/ - Team-owned DAGs with dedicated README
dags/common/ - Shared utilities like dag\_factory and alerts
plugins/operators/ - Organization-wide custom operators
CODEOWNERS - Enforce PR reviews by domain owners

#### >\_ Getting Started

```
    Clone repo and pip install -e ".[dev]"
    Create new team folder: dags/{team_name}/
    Add team to CODEOWNERS file
    Use dag_factory for consistent DAG creation
    Add tests in tests/{team_name}/
```

#### </> DAG Factory

```
# dags/common/dag_factory.py
from airflow import DAG
from datetime import datetime, timedelta
DEFAULT_ARGS = {
    "owner": "data-platform",
    "retries": 2,
    "retry_delay": timedelta(minutes=5),
def create_dag(dag_id: str, schedule: str, **kwargs):
    return DAG(
        dag_id=dag_id,
        default_args={**DEFAULT_ARGS, **kwargs},
        start_date=datetime(2024, 1, 1),
        schedule=schedule,
        catchup=False,
   )
```

## Code Ownership

Use CODEOWNERS to require team approval for their DAGs:

/dags/finance/ @finance-team . This prevents accidental changes and ensures domain expertise in reviews.

## ☑ When To Use This

- Multiple teams sharing one Airflow instance
- 50+ DAGs across different domains
- Need clear ownership and review boundaries
- Enterprise deployments with governance requirements

# ☑ Best Practices

- Each team folder should have its own README
- Use DAG tags matching team names for UI filtering
- Prefix DAG IDs with team name: finance\_revenue\_daily
- Shared operators go in plugins/, team-specific in dags/{team}/
- Run team-specific tests in CI based on changed files