

Phase 0: Setup (1–2 days)

- Create free-tier AWS account (or GCP)
 - Install Power BI Desktop
 - Install Python (if not installed)
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Week 1: Cloud Basics

Goal: Understand cloud concepts **Topics:** - Cloud computing: IaaS, PaaS, SaaS - Public cloud providers: AWS, GCP, Azure - Regions, availability zones, data centers - Cloud vs on-premise storage **Hands-on:** Explore AWS/GCP console **Resources:** - AWS Cloud Practitioner Essentials - YouTube: "Cloud Computing for Beginners"

Weeks 2–3: Cloud Storage & Databases

Goal: Learn data storage and basic DB **Topics:** - Cloud storage: S3 / GCS / Blob - Relational databases: RDS / Cloud SQL - Connecting BI tools to cloud DB **Hands-on Projects:** - Upload CSV to S3 - Connect to cloud database - Query data using SQL **Resources:** - AWS S3 tutorials, SQL for cloud

Weeks 4–5: Cloud Data Warehousing

Goal: Build DW knowledge & cloud DW experience **Topics:** - Star & snowflake schemas, fact & dimension tables - Cloud DW: Redshift / BigQuery / Snowflake - Loading data from storage to DW - Queries & connecting DW to Power BI **Hands-on Project:** - Load sales/customer data into Redshift/BigQuery - Run SQL queries & create Power BI dashboard **Resources:** - AWS Redshift tutorials, BigQuery Quickstart

Weeks 6–7: ETL / Pipelines Basics

Goal: Learn simple ETL pipelines and automation **Topics:** - ETL vs ELT concepts - Cloud ETL tools: AWS Glue / Dataflow / dbt basics - Automating workflow: storage → DW → BI dashboard **Hands-on Project:** - Take CSV dataset → S3 → Redshift → Power BI dashboard - Schedule workflow with Glue / Airflow **Resources:** - AWS Glue tutorials, dbt documentation

Week 8: Portfolio Integration & Resume Update

Goal: Make your projects stand out - Major project: Raw data → Cloud storage → DW → Power BI dashboard → Insights - Update portfolio & GitHub - Resume example: - "Built end-to-end analytics pipeline on AWS S3 + Redshift, creating interactive Power BI dashboards to track sales KPIs."

Optional Extensions (After Week 8)

- Learn Spark basics for big data pipelines
 - Python + Airflow for advanced workflows
 - SQL optimization & partitioning in DW
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Outcome in ~8 Weeks

- Cloud basics + storage + DW + simple ETL
 - End-to-end cloud + BI project in portfolio
 - Stand out as Data Analyst and ready to pivot to Data Engineering
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Tips to Stand Out

- Highlight projects that **combine BI + cloud**
- Show **end-to-end workflow** in portfolio
- Tailor resume points per role (Analyst vs DE)