

# INFOSOFT IT SOLUTIONS

**Training | Projects | Placements**

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## **AWS GLUE**

### **Introduction to AWS Glue**

- Overview of AWS Glue
- Key concepts and components
- Use cases and benefit

### **Setting Up AWS Glue**

- Creating a Glue data catalog
- Configuring IAM roles and permissions
- Setting up Glue crawlers

### **Data Cataloging and Management**

- Understanding databases and tables
- Managing metadata with the data catalog
- Schema discovery with Glue crawlers

### **ETL (Extract, Transform, Load) Operations**

- Creating and managing Glue jobs
- Using the Glue Studio interface
- Transformations and data processing

## **Writing Glue Scripts**

- Writing and optimizing PySpark scripts
- Using the Glue API for custom transformations
- Job bookmarking and data consistency

## **Data Transformation and Cleaning**

- Built-in transformations and functions
- Data cleansing and enrichment
- Handling schema evolution

## **Integration with Other AWS Services**

- Integrating with Amazon S3, RDS, and Redshift
- Using Glue with AWS Lake Formation
- Data pipelines with AWS Step Functions

## **Monitoring and Troubleshooting**

- Monitoring Glue jobs with CloudWatch
- Troubleshooting common issues
- Logging and performance tuning

## **Security and Compliance**

- Data encryption and access control
- Using AWS KMS with Glue
- Compliance best practices

## **Cost Management**

- Understanding Glue pricing
- Cost optimization techniques
- Using AWS Cost Explorer