

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AWS CLOUD TRAIL

Introduction to CloudTrail

- Overview and purpose
- Key concepts and terminology
- Differences between CloudTrail and CloudWatch

Setting Up CloudTrail

- Creating a CloudTrail trail
- Configuring trails and S3 buckets
- Managing multiple trails

Understanding CloudTrail Logs

- Structure of log files
- Event data and format
- Types of events (management, data, insights)

Integration with AWS Services

- CloudTrail and CloudWatch integration
- Using AWS Lambda for log processing
- Integrating with AWS Config for compliance

Security and Compliance

- Securing CloudTrail logs
- Encrypting logs with AWS KMS
- Compliance use cases and best practices

Monitoring and Alerts

- Setting up CloudWatch alarms for events
- Automating responses with AWS Lambda
- Using CloudTrail Insights for anomaly detection
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Analyzing CloudTrail Logs

- Querying logs with Amazon Athena
- Visualizing log data with Amazon QuickSight
- Advanced search techniques and filters
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Cost Management

- Understanding CloudTrail pricing
- Cost optimization strategies
- Using AWS Cost Explorer for analysis

Troubleshooting and Best Practices

- Common issues and resolutions
- Best practices for log management
- Performance optimization tips

In-Depth CloudTrail Architecture

- Detailed architecture and data flow
- Differences between management and data events
- Insights into CloudTrail event processing

Advanced Trail Configuration

- Configuring organization-wide trails
- Advanced settings and multi-region trails
- Managing multiple trails for specific use cases

Security and Compliance

- Advanced encryption with AWS KMS
- Implementing VPC endpoints for CloudTrail
- Regulatory compliance and audit readiness

Integrating CloudTrail with Other Services

- Detailed integration with AWS Config for compliance tracking
- Using CloudTrail with AWS Security Hub
- Leveraging AWS Organizations for centralized logging

CloudTrail Insights

- Setting up CloudTrail Insights
- Analyzing unusual activity and trends
- Integrating insights with monitoring solutions

Log Analysis and Processing

- Advanced log analysis using Amazon Athena
- Building complex queries and reports
- Visualizing trends with Amazon QuickSight

Automation and Monitoring

- Automating responses with AWS Lambda
- Setting up advanced CloudWatch alarms
- Event-driven architectures using CloudTrail

Cost Optimization Techniques

- Analyzing and managing CloudTrail costs
- Using AWS Budgets and Cost Explorer
- Strategies for optimizing log storage and retrieval

Performance Tuning and Troubleshooting

- Troubleshooting common CloudTrail issues
- Performance tuning and best practices
- Advanced debugging techniques