



Lambda - Exam Tips

- Lambda scales out (not up) automatically
- Lambda functions are independent, 1 event = 1 function
- Lambda is serverless
- Know what services are serverless!
- Lambda functions can trigger other lambda functions, 1 event can = x functions if functions trigger other functions
- Architectures can get extremely complicated, AWS X-ray allows you to debug what is happening
- Lambda can do things globally, you can use it to back up S3 buckets to other S3 buckets etc
- Know your triggers



Exam Tips

- Remember what API Gateway is at a high level
- API Gateway has caching capabilities to increase performance
- API Gateway is low cost and scales automatically
- You can throttle API Gateway to prevent attacks
- You can log results to CloudWatch
- If you are using Javascript/AJAX that uses multiple domains with API Gateway, ensure that you have enabled CORS on API Gateway
- CORS is enforced by the client

Version Control With Lambda Exam Tips



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- Can have multiple versions of lambda functions
- Latest version will use \$latest
- Qualified version will use \$latest, unqualified will not have it
- Versions are immutable (Cannot be changed).
- Can split traffic using aliases to different versions
 - Cannot split traffic with \$latest, instead create an alias to latest.

Step Functions



- Great way to visualize your serverless application.
- Step Functions automatically triggers and tracks each step.
- Step Functions logs the state of each step so if something goes wrong you can track what went wrong and where.



X-Ray Exam Tips

The X-Ray SDK provides:

- Interceptors to add to your code to trace incoming HTTP requests
- Client handlers to instrument AWS SDK clients that your application uses to call other AWS services
- An HTTP client to use to instrument calls to other internal and external HTTP web services



X-Ray Exam Tips

The X-Ray Integrates with the following AWS services:

- Elastic Load Balancing
- AWS Lambda
- Amazon API Gateway
- Amazon Elastic Compute Cloud
- AWS Elastic Beanstalk

X-Ray Exam Tips



The X-Ray Integrates with the following languages:

- Java
- Go
- Node.js
- Python
- Ruby
- .Net