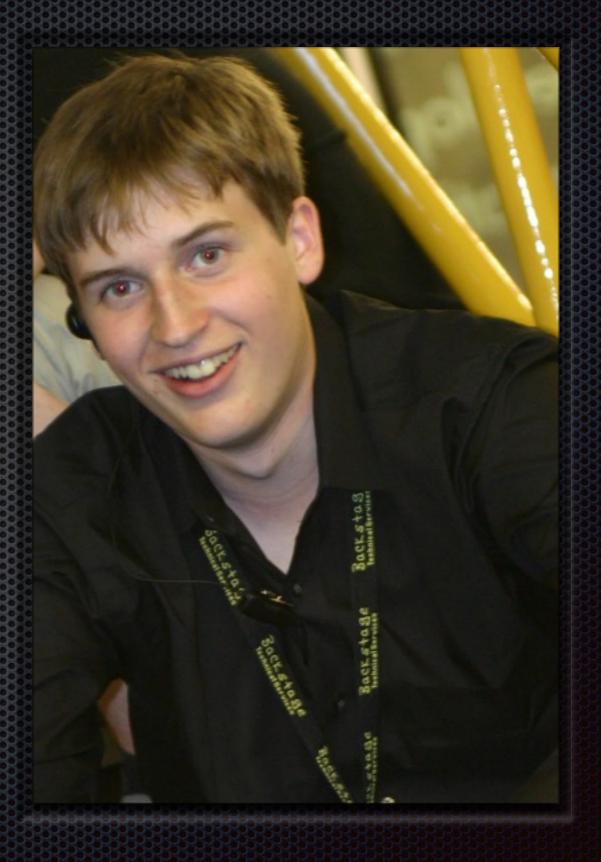


Introducing Amazon SQS

Meet Lee @leesto

- PHPSW Organiser
- Web Team Lead for Gradwell
- Theatre Tech
- Theme Park Fan
- Occasional Photographer



What is SQS

"Amazon SQS is a distributed queue system that enables web service applications to quickly and reliably queue messages that one component in the application generates to be consumed by another component. A queue is a temporary repository for messages that are awaiting processing."

-Amazon Web Services

Why Queues?

- Ideal for tasks we don't need to complete in real time
 - Don't keep the user waiting
- Help handle incoming data / content
- Help scale large tasks

Why SQS?

- Amazon runs the service for you
- High availability
- Free for the first 1,000,000 requests per month
 - \$0.50 per 1 million after
- AWS SDK

Queues

- Hold the messages to be processed
- Uniquely named per account
- Ability to build in a processing delay (up to 15 minutes)
- Can be created / configured through the UI or API

Messages

- Contains the actual job you want processed
- 1 blob up to 256 KB
 - Found it useful to have this as a JSON object
- Option for storing additional attributes

Create a Message

```
$this->awsClient->sendMessage(array(
    'QueueUrl' => 'http://sqs.us-east-1.amazonaws.com/123456789012/
myQueue',
    'MessageBody' => 'Hello World',
));
```

Need to know the URL - separate call to get the URL from a name

Retrieve a Message

- Returns a Response model check for Messages array
- Can implement long polling
- Queues define a 'message visibility' period

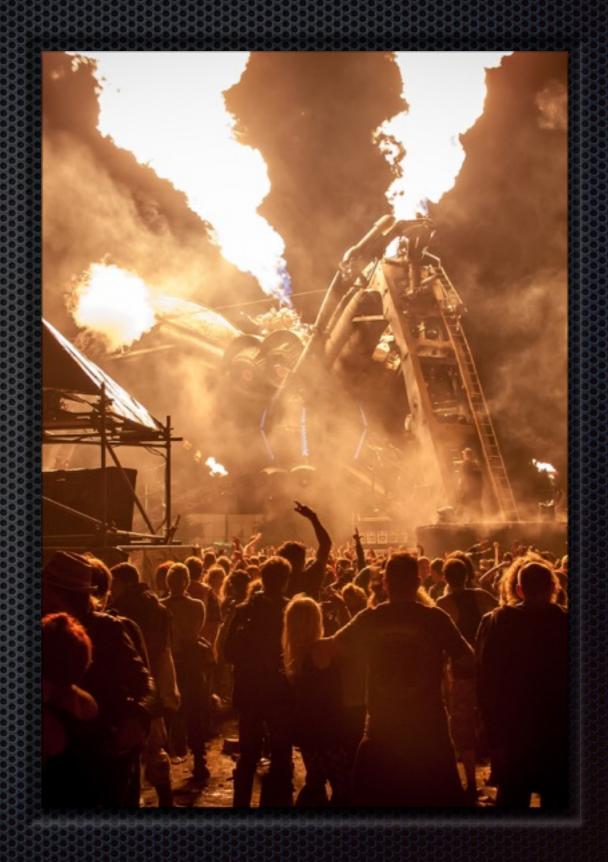
Gotchas

- First in, First out not guaranteed
- They guarantee 'at least once' delivery
- Retention Periods default 4 days, max 14 days

Wait... There's More

- Security Policies
- Message Attributes
- Dead Letter Queues
- Batch Processing

Thank You Questions?



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