Using Amazon's Web Services From Ruby

Jonathan Younger



Does it scale?





Amazon Web Services

- SQS Simple Queue Service
- EC2 Elastic Compute Cloud
- S3 Simple Storage Service
- SimpleDB



Ruby

- \$ gem install right_aws
- RightScale RightAws::Sqs
- RightScale RightAws::Ec2
- \$ gem install kato
- Kato EC2 Pool Manager



RightAws::Sqs



SQS Queuing

```
queue = SQS.queue("name_of_the_queue")
queue.push "put a message in the queue" # 8K Max
queue.size # => 1
message = queue.receive
puts message.body # => "put a message in the queue"
# Remove the message from the queue
message.delete
```



RightAws::Ec2



EC2 Instances

```
EC2.describe_instances # => { [instance data] }
EC2.run_instances("name_of_ami", minimum, maximum)
EC2.terminate_instances(["id_1", "id_2"])
```



Kato - Pool Manager

```
require 'rubygems'
require 'kato'
pool_supervisor = Kato::PoolSupervisor.new(config)
pool_supervisor.run
```

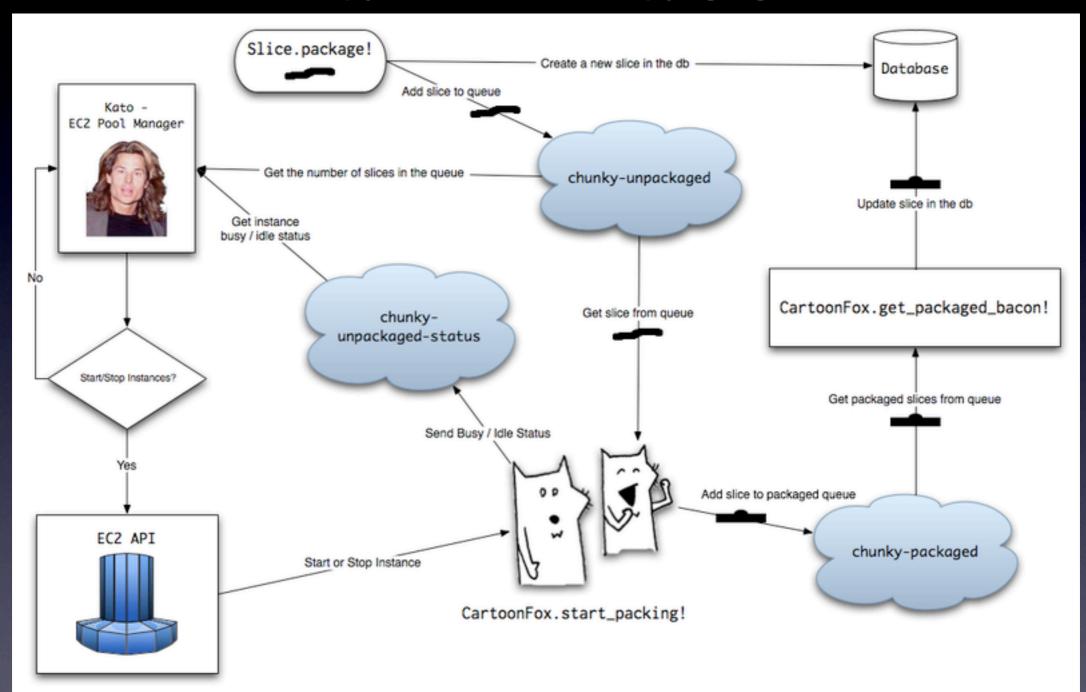


Kato Config

- Manage multiple pools
- Minimum number of instances
- Maximum number of instances
- Ramp up/down intervals



Makin' Bacon





Slice.package!

```
class Slice < Sequel::Model
  def self.package!
    slice = create(:queued_at => Time.now)
    queue = SQS.queue("chunky-unpackaged")
    queue.push(slice.id)
    slice
  end
end
```



Fox.start_packing!

```
def start_packing!
  while $packing
    if message = unpackaged.receive
      send_status_update(true)
      packaged.push message.body
      message.delete
      send_status_update(false)
    end
    sleep 2
  end
end
```



Fox.get_packaged_bacon!

```
def self.get_packaged_bacon!
  packaged = SQS.queue("chunky-packaged")
  loop do
    if( message = packaged.receive) &&
      (slice = Slice[message.body.to_i])
      slice.set(:packaged_at => Time.now)
      message.delete
    end
    sleep 0.5
  end
```



Demo



Resources

- http://github.com/daikini/chunky_bacon
- http://aws.amazon.com
- http://rightaws.rubyforge.org

