SaltStack as your ops colleague

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What is SaltStack

- It’s not only configuration management
- It
  - Orchestrates infrastructure
  - Reacts to events in infrastructure
  - Configures servers
  - And much more
Communication

Minimal salt-minion configuration:
```
```

Remote Execution

- Extremely fast
- Targeting by Name, CPU, OS Type...
  - `salt -G 'os:Ubuntu' test.ping`
  - `salt -G 'minion[0-9]' test.ping`
  - `salt -G 'G@os:Ubuntu and minion* or S@192.168.50.*' test.ping`
- ZeroMQ as transport Layer
- Salt Proxy for nodes without salt-minion installed
Modules

- Execution Modules
- State Modules
- Runner Modules
- Returner Modules
- Beacon Modules
- Grain Modules
Subsystems
Events system
Example 1: Adding, removing minion in AWS

- EC2 Instance
- SQS
- AWS-EC2 API
- Salt
  - Reactor
  - Runner

Flow:
- Minion Created
- Minion Accepted
- Remove minion
- Verify if minion exist and accept
- SQS (deleted)
- Salt (deleted)
Example 2: Fixing AWS ECS Agent

Salt 'ecs1' ecs.restart

AWS-ECS API

ECS Instances

Salt
- Scheduler
- Runner
- Reactor

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