

# Configuration Management: Chef & Puppet

## Internet-scale Distributed Systems Seminar Report

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### ABSTRACT

A good report has an abstract!

### KEYWORDS

Configuration Management, DevOps

### 2.4 Evaluation

Actual hard work happens here - many thoughts!

### 3 CONCLUSIONS

Brilliant results!

## 1 INTRODUCTION

### 1.1 Why configuration management

- Deploy many applications on many machines (a.k.a. nodes)
- Update an application on all nodes simultaneously
- Simplify rollbacks
- Keep environments consistent among multiple entities (i.e. dev/testing/production)
- Keep records of all changes of the infrastructure

## 2 SYSTEM ARCHITECTURE

- Push config vs. Pull config

High-level overview.

### 2.1 Configuration Management

This is a citation [? ].

2.1.1 *Insight A.* A subsubsection

2.1.2 *Insight B.* Another subsubsection.

### 2.2 Chef

This is where we describe chef.

### 2.3 Puppet

This is where we describe puppet.

- Uses a master-slave architecture
- Uses pull config
- Ressource management:
  - Manifests describe the node configuration
  - Groups of ressources can be organized into classes  $\Rightarrow$  i.e. config for entire application can be grouped
  - Modules combine manifests and data to improve code organization
- Server node connection via SSL works as follows:
  - (1) Node sends normalized data to the Puppet master
  - (2) Server uses this data to compile a catalog, that specifies how the node should be configured
  - (3) The node reports back the successful config to the master (Visible on the Puppet Dashboard)