

# WHAT IS PUPPET?

Declaratively describe the  
desired state of servers with  
**manifests**

Automatically deploy to  
servers using the manifests

Continuously verify server state  
to ensure accordance with the  
manifests



# QUALITY ATTRIBUTES

**Reliability:** As a system designed to make other systems reliable, Puppet must itself be reliable.

**Modifiability:** Puppet increases the maintainability of server infrastructure. The Puppet Configuration Language itself is extendible to support new primitive resources.

**Usability:** The Puppet Configuration Language affords its users efficient and effective ways to manage their server infrastructure.

# ARCHITECTURAL VIEW

## LAYERED VIEW

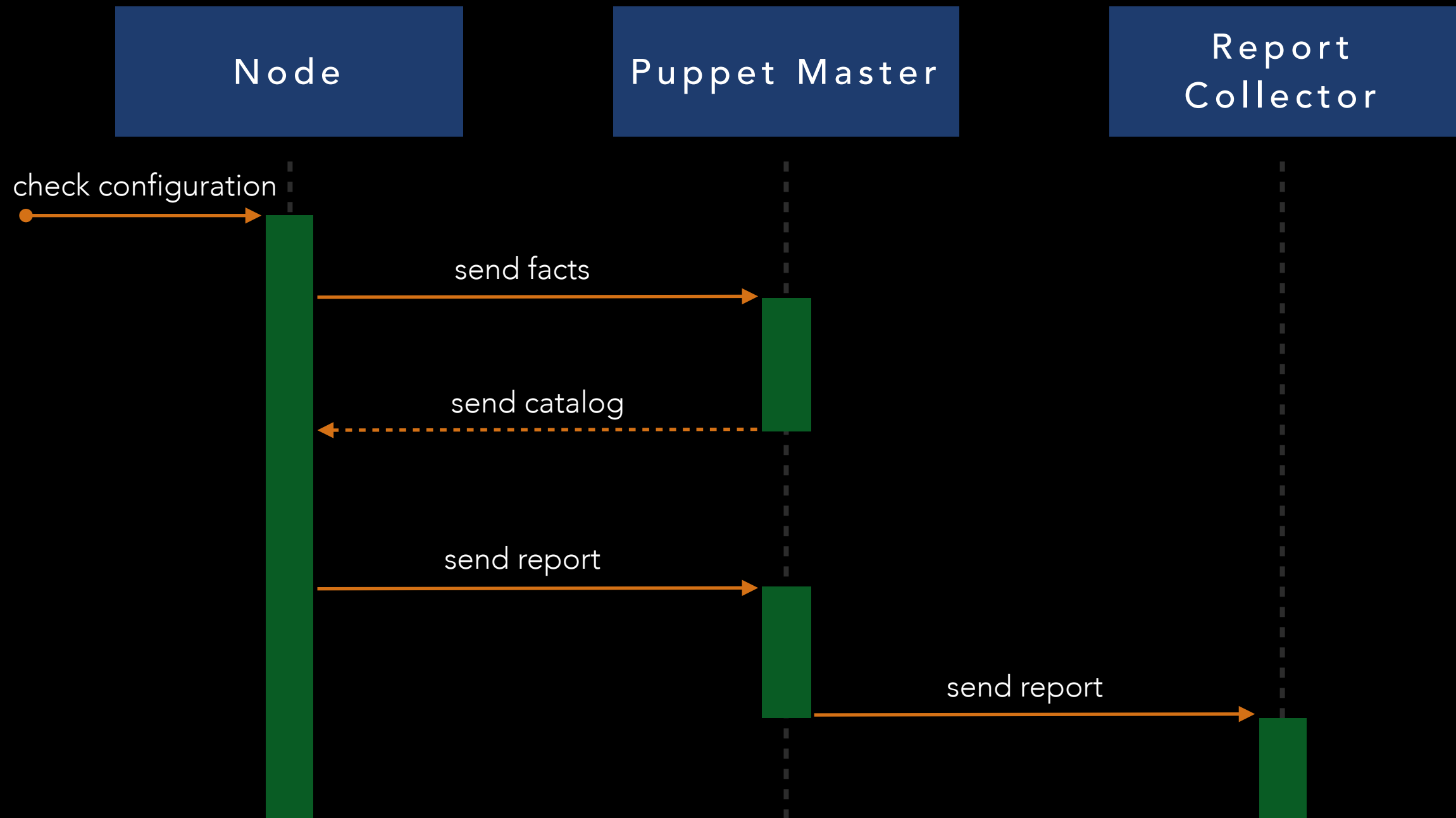
Configuration Language

Transactional Layer

Resource Abstraction Layer

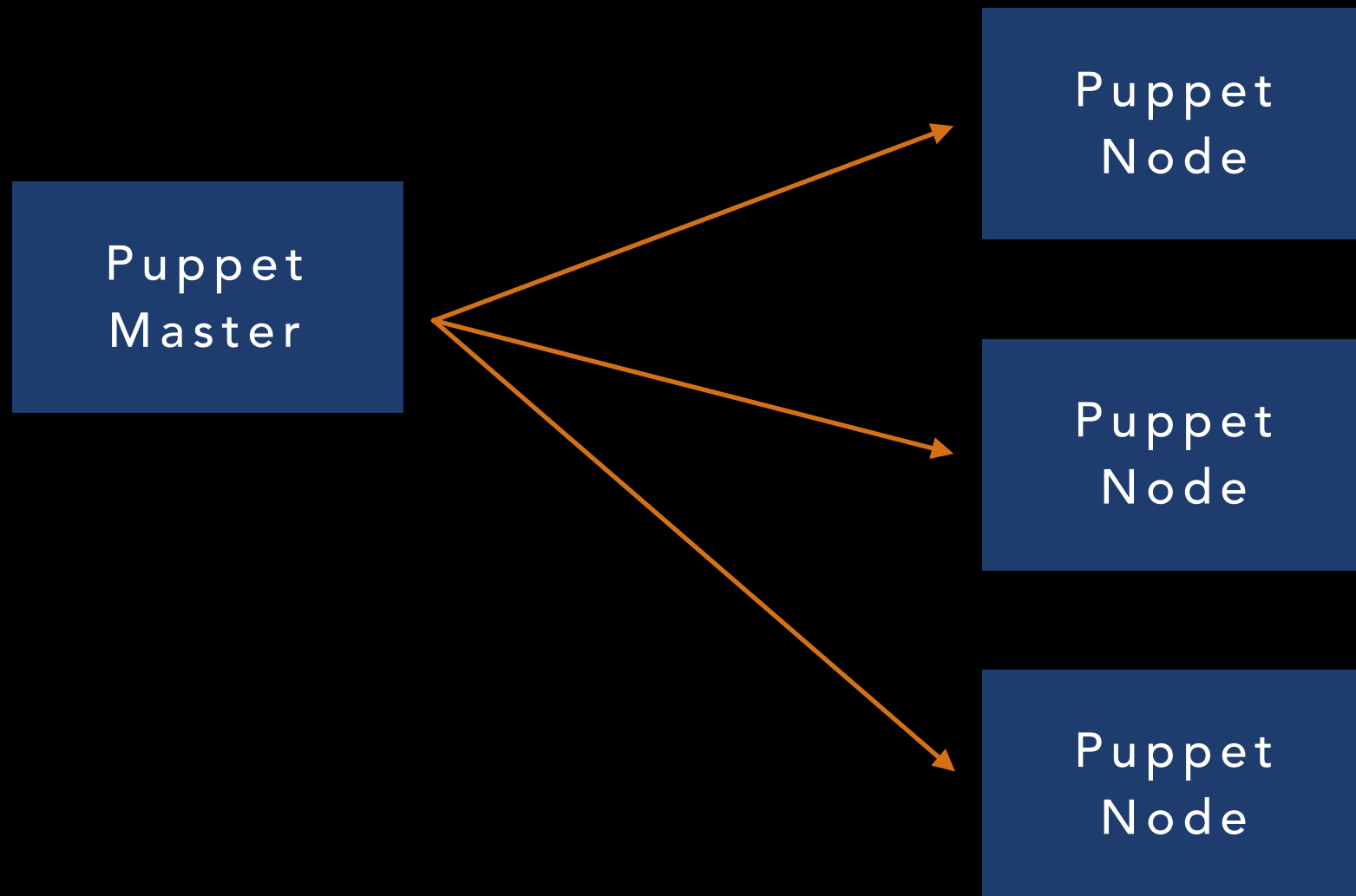
# ARCHITECTURAL VIEW

## LOGICAL VIEW



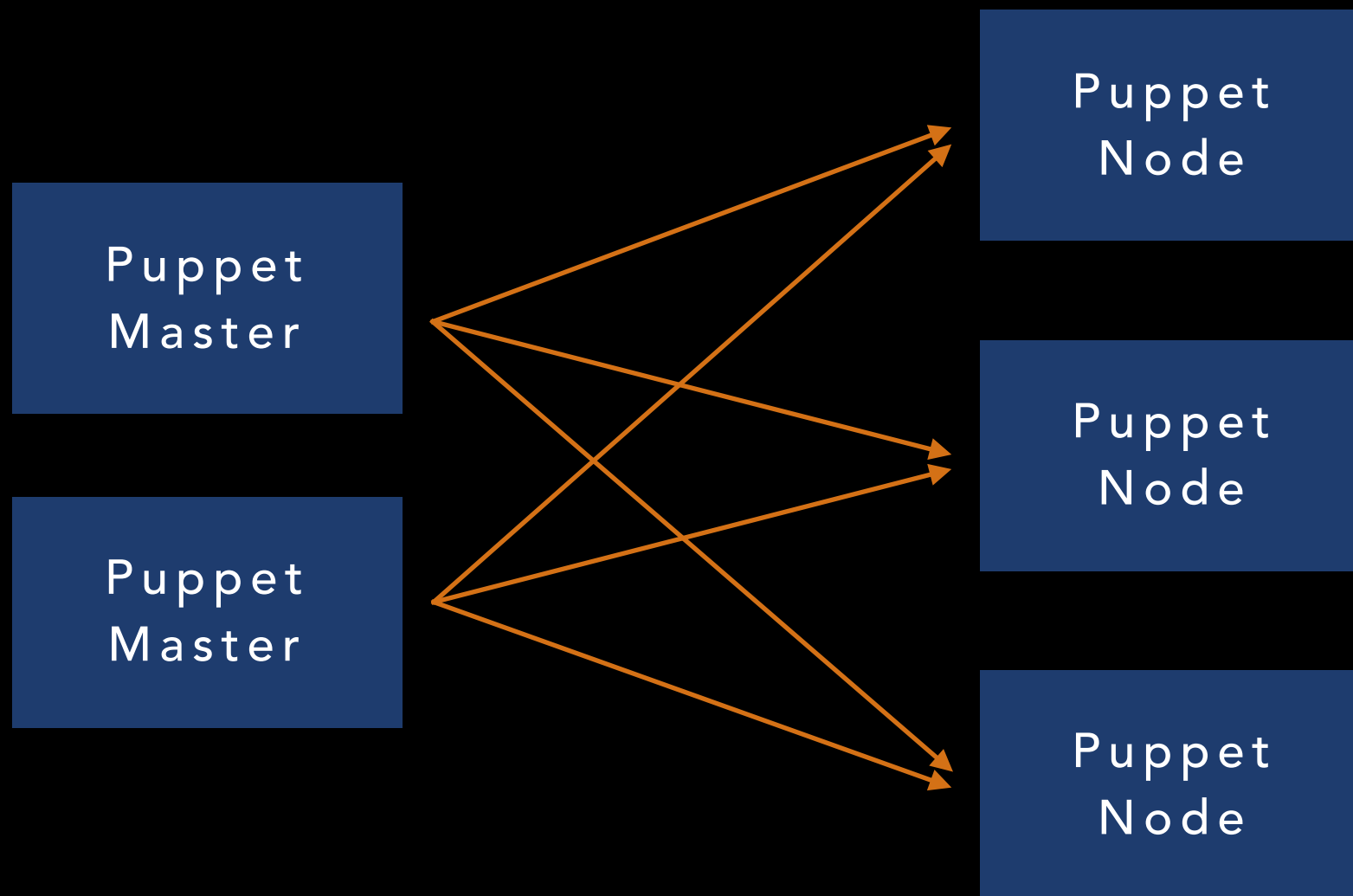
# ARCHITECTURAL ANALYSIS

## RELIABILITY



# ARCHITECTURAL ANALYSIS

## RELIABILITY



# ARCHITECTURAL ANALYSIS

## USABILITY

```
user { 'dave':  
    ensure => present,  
    uid => '507',  
    gid => 'admin',  
    shell => '/bin/zsh',  
    home => '/home/dave',  
}
```



# ARCHITECTURAL ANALYSIS

## MODIFIABILITY

```
user { 'dave':  
    ensure => present,  
    uid => '507',  
    gid => 'admin',  
    shell => '/bin/zsh',  
    home => '/home/dave',  
}
```

# ARCHITECTURAL ANALYSIS

## MODIFIABILITY

```
doodad { 'thingamabob' :  
    snorkle => true,  
    bob => quickly,  
}
```

# WEAKNESS

## COMPLEXITY

