

Web

Database

Compute



# Chef

**Describe**

**Templates, Attributes, Recipes**

**Converge**

**Deploy, Update**

**Extend**

**Add Nodes**

**Repeat**

**Next Data Centre**

# Describe

Recipes

Templates

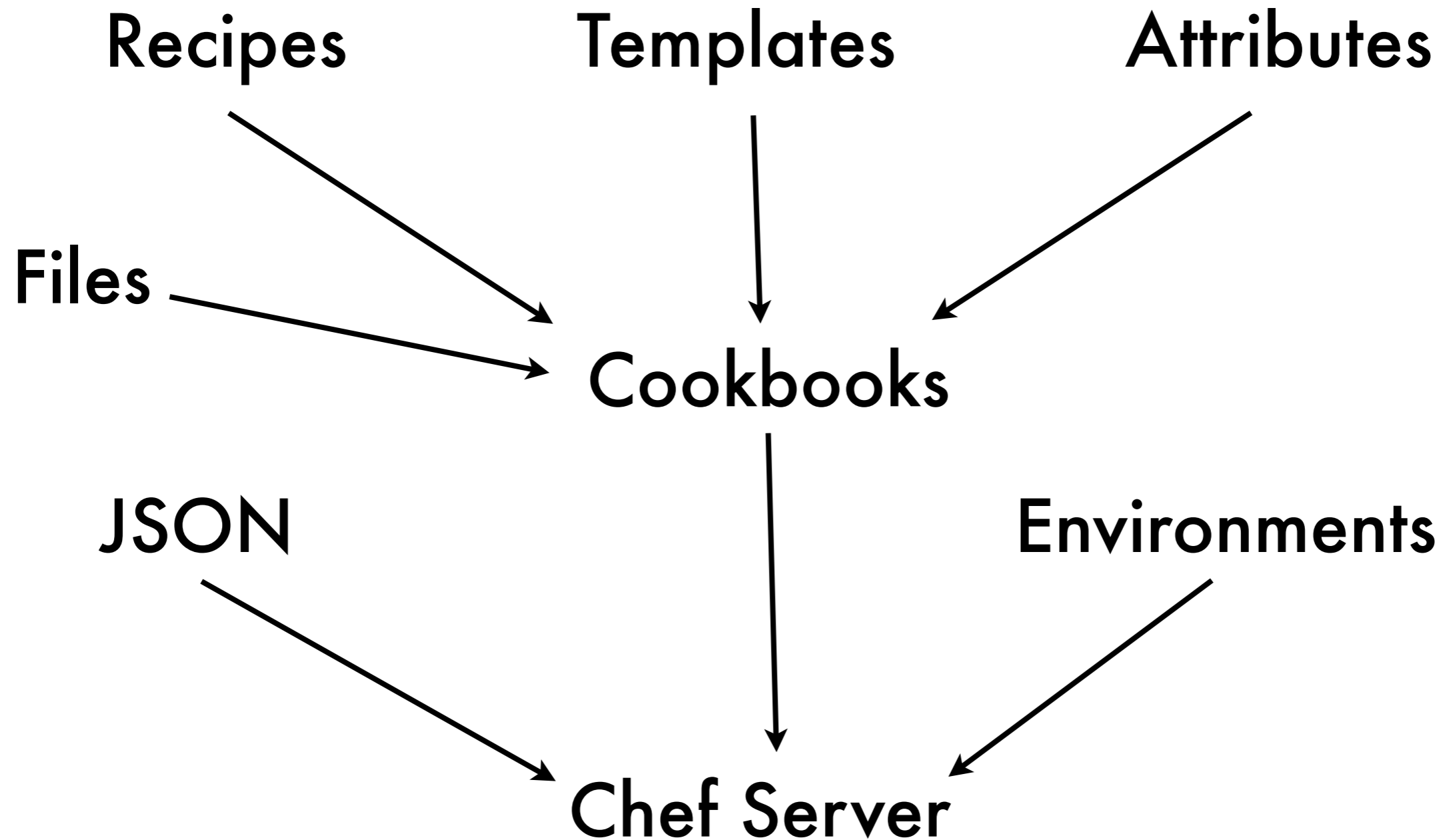
Attributes

```
default.rb
ntp.conf.erb
client.rb

case node['platform_family']
when 'debian'
  default['nagios']['client']['install_method'] = 'package'
  default['nagios']['nrpe']['pidfile']          = '/var/run/nagios/nrpe.pid'
  default['nagios']['nrpe']['home']            = '/usr/lib/nagios'
  default['nagios']['nrpe']['packages']        = %w{ nagios-nrpe-server nagios-plugins nagios-plugins-basic nag
  if node['kernel']['machine'] == "i686"
    default['nagios']['nrpe']['ssl_lib_dir']    = '/usr/lib/i386-linux-gnu'
  else
    default['nagios']['nrpe']['ssl_lib_dir']    = '/usr/lib/x86_64-linux-gnu'
  end
  if node['nagios']['client']['install_method'] == 'package'
    default['nagios']['nrpe']['service_name']  = 'nagios-nrpe-server'
  else
    default['nagios']['nrpe']['service_name']  = 'nrpe'
  end
when 'rhel', 'fedora'
  default['nagios']['client']['install_method'] = 'source'
  default['nagios']['nrpe']['pidfile']          = '/var/run/nrpe.pid'
  default['nagios']['nrpe']['packages']        = %w{ nrpe nagios-plugins-disk nagios-plugins-load nagios-plugir
  if node['kernel']['machine'] == "i686"
    default['nagios']['nrpe']['home']          = '/usr/lib/nagios'
```

Line: 1 Column: 1 Ruby Soft Tabs: 2

# Describe



# Converge

Runlist



Changes



System State

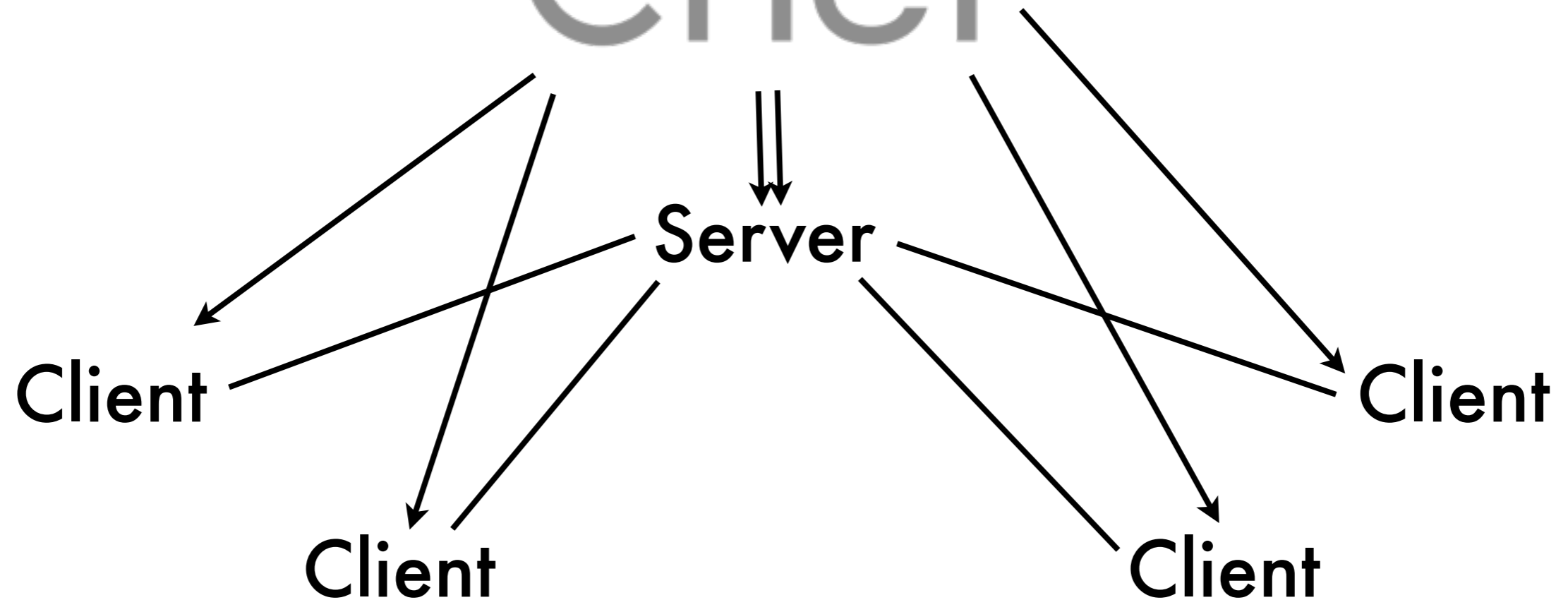


Diff for Admins

# Expand



Chef



Repeat

Repeat

Repeat

Repeat

Repeat

# Typical System

- nova-compute
- ldap-utils
- ntp
- glusterfs
- iptables
- nagios
- syslog

```
{  
  "name": "pdc_node",  
  "description": "",  
  "json_class": "Chef::Role",  
  "default_attributes": {  
  },  
  "override_attributes": {  
  },  
  "chef_type": "role",  
  "run_list": [  
    "recipe[apt]",  
    "recipe[ldap]",  
    "recipe[nscd]",  
    "recipe[ntp]",  
    "recipe[nova-client-pdc]",  
    "recipe[glusterfs]"  
  ],  
  "env_run_lists": {  
  }  
}
```



Chef ends at conception.



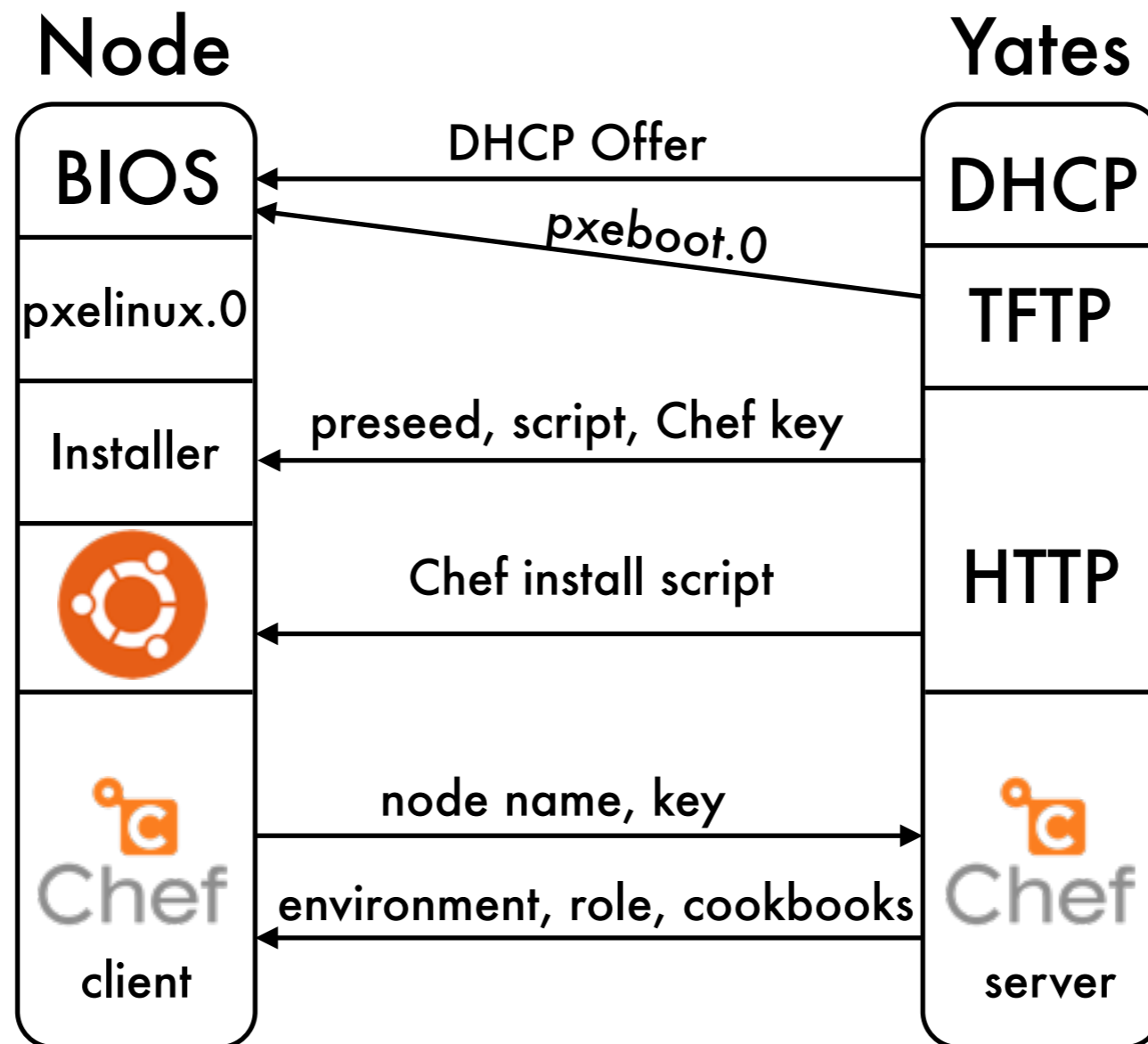
Chef

---



ubuntu

# Yates



# Yates

## JSON

```
{
  "id": "g13",
  "name": "kg13",
  "type": "compute",
  "platform": "12.04",
  "IP range": "10.103.113",
  "parameters": [
    "max-lease-time 300",
    "default-lease-time 120",
    "next-server \"10.103.113.201\""
  ],
  "hosts": {
    "1": {
      "MAC": "FF-FF-FF-FF",
      "form": "1u",
      "SOL": "38.4",
      "task": "headnode"
    },
    "2": {
      "MAC": "FF-FF-FF-FF",
      "form": "1u",
      "SOL": "38.4",
      "task": "starlight"
    }
  }
}
```

# Future

**Flexibility**

**Types**

**VMs**