

The background is a gradient of green and blue, transitioning from a lighter green at the top left to a darker blue at the bottom right. Overlaid on this are several abstract geometric elements: a large circular scale on the left with markings from 140 to 260; several concentric circles and arcs of varying sizes; and small white dots scattered across the field, resembling a starry sky or data points. Some of the circular elements have arrows indicating a clockwise direction.

CHEF

IT AUTOMATION FOR SPEED AND AWESOMENESS

PRESENTATION BY JUSTIN MCBRIDE

PURPOSE

- Manage software packages across many servers
- Maintain configuration across the different machines
- Ensure process uptime and service reliability
- Easily do this through Ruby code files, not management interfaces

PURPOSE EXPLAINED

- One Ruby file +
- Many servers
- =
- Unified and consistent machine environments

SIMPLE EXAMPLES

file: webserver.rb

```
package 'apache2'
```

When the 'chef-apply' command is run on this file, the machine will install the package 'apache2', and configure it appropriately.

LESS SIMPLE BUT MORE USEFUL EXAMPLE

file: webserver.rb

```
package 'apache2'  
service 'apache2' do  
  supports :status => true  
  action [:enable, :start]  
end
```

- Installs the package 'apache2'
- Tells Chef that the apache2 package supports the 'status' variable
- Requests that Chef enables and starts the apache2 service

COMMON USES

- Distributed Database Systems
- Load distribution for web services
- Workstations

LARGE SCALE USERS

- Facebook
- AirBnB
- Expedia
- Prezi
- Rackspace

BASICS OF CHEF

- Uses the Ruby language to describe system configurations
- Each file is called a 'recipe'
- Multiple recipes can be run together, called 'cookbooks'
- Can be run in Client-Server mode, or in 'Solo' mode
- Each client is called a 'node'

OTHER FEATURES

- Full analytics
 - Changes made by Chef
 - Updates that need to be made
 - Efficiency reports
- Community Marketplace
 - Other users can share their Cookbooks
- Server Replication (Premium)
- Management Console (Premium)

SUPERMARKET

apache  0.0.5  Updated March 13, 2012



various apache server related resource provides (LWRP)

```
cookbook 'apache', '~> 0.0.5'
```

SUPPORTED PLATFORMS



 5,276,696 TOTAL DOWNLOADS

 8 FOLLOWERS

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apache2  3.0.1  Updated February 18, 2015



Installs and configures all aspects of apache2 using Debian style symlinks with helper definitions

```
cookbook 'apache2', '~> 3.0.1'
```

SUPPORTED PLATFORMS



 58,005,928 TOTAL DOWNLOADS

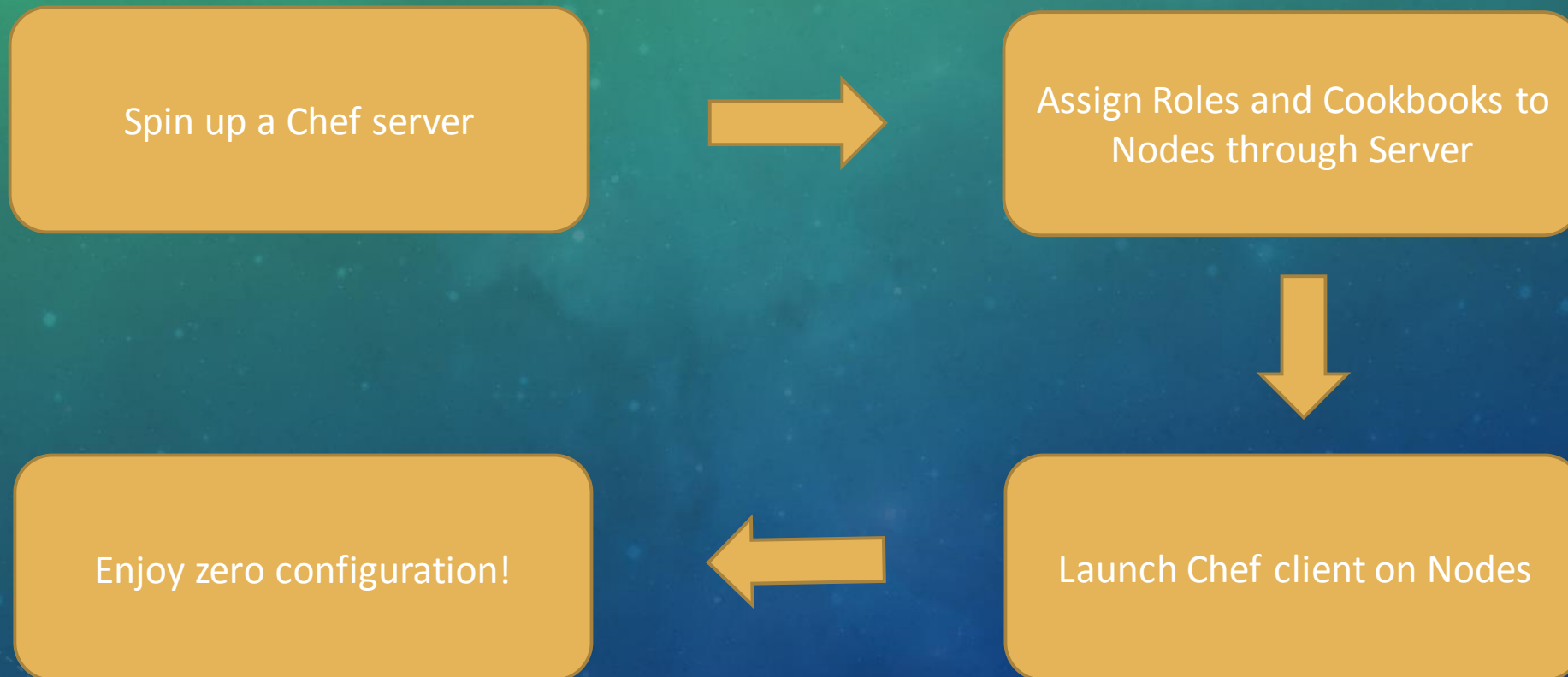
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zen_apache  1.1.0  Updated April 4, 2015



GENERAL FLOW



INTERFACING WITH CHEF

- Utility named 'Knife'
- Command line utility to manage all nodes
- Can add recipes to nodes
- Create roles for nodes