metarepo Documentation

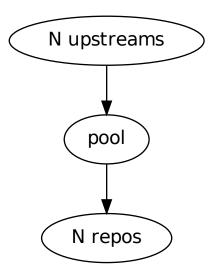
Release 0.1.0

Opscode, Inc.

CONTENTS

Metarepo is a "meta-repository" management system. It:

- Tracks "upstream" sources of packages, such as a local CentOS/Ubuntu mirror, or simply directories full of package files.
- Imports packages from the upstreams into a single managed "pool".
- Allows you to create arbitrary numbers of "repos", which can then be used by regular downstream package management tools.



Warning: Metarepo is **alpha** software. It works, but it's got lots of rough edges. If you aren't feeling like rolling up your sleeves and going code diving when things get wierd, probably not quite ready for you yet. If you **are** ready to do that, and it sounds cool, now is a good time to dive in.

- We track "upstreams"
- Files appear in the upstrem
- Get added to the pool
- Repos get created from packages in the pool * Can be synced to an upstream * Can be synced to another repo * Can have a specific policy

Contents:

CONTENTS 1

2 CONTENTS

CHAPTER

ONE

INSTALLATION

1.1 Install required packages

- PostgreSQL (if you want to run tests, you need to have working ident auth)
- Redis

1.2 Clone the source

git clone http://github.com/adamhjk/metarepo

1.3 Bundle Dance

cd ./metarepo
bundle install

1.4 Create the database

 $\verb|bundle exec sequel -m ./migrations postgresql://localhost/metarepo|\\$

1.5 Start the REST API

bundle exec ./bin/metarepo-rest -F

1.6 Start the Resque worker

bundle exec rake resque:work

API

2.1 /upstream

2.1.1 **GET**

Returns a list of all the upstreams

```
{
  "centos-6.0-os-x86_64": "http://localhost/upstream/centos-6.0-os-x86_64"
}
```

2.1.2 **POST**

Creates a new upstream

Request Body

```
{
   "name": "centos-6.0-os-x86_64",
   "path": "poop",
   "type": "yum",
```

Response

• 201 Created

```
{
   "uri": "http://localhost/upstream/NAME"
}
```

Responds with the URI of where the upstream can be fetched.

Acceptable types are:

- yum
- apt
- dir

2.2 /upstream/NAME

2.2.1 **GET**

Returns the upstream

Request

```
"name": "centos-6.0-os-x86_64",
"path": "poop",
"type": "yum",
"created_at": "2012-03-15T17:45Z"
"updated_at": "2012-03-15T17:45Z"
```

2.2.2 PUT

Updates or creates the upstream. If the upstream already exists, it will trigger a re-sync.

Request

```
{
   "name": "centos-6.0-os-x86_64",
   "path": "poop",
   "type": "yum"
}
```

Response

- 201 Created on creation.
- 202 Accepted if we are just re-syncing.

```
"name": "centos-6.0-os-x86_64",
  "path": "poop",
  "type": "yum",
  "updated_at": "2012-03-15T17:45Z"
```

2.2.3 DELETE

Removes the upstream. Request has no body.

Response

• 200 OK

2.3 /upstream/NAME/packages

2.3.1 GET

Returns a list of all the packages in this upstream.

6 Chapter 2. API

Response

```
• 200 OK

{
  "08cb7b6e5af66461f7c7c3c66e6a7b75cb152c567d8560eda9f8f2b68bcee1e5": {
    "name": "at",
    "filename": "at-3.1.10-42.el6.i686.rpm",
    "shasum": "...",
    "version": "3.1.0"
  }
}
```

2.4 /repo

2.4.1 **GET**

Returns a list of all the repos.

```
{
  "centos-6.0-os-x86_64-dev": "http://localhost/repo/centos-6.0-os-x86_64-dev"
}
```

2.4.2 **POST**

Creates a new repo

Request Body

```
{
   "name": "centos-6.0-os-x86_64-dev",
   "type": "yum"
}
```

Response

• 201 Created

```
{
    "uri": "http://localhost/repo/NAME"
}
```

Responds with the URI of where the repo can be fetched.

Acceptable types are:

- yum
- apt
- dir

2.4. /repo 7

2.5 /repo/NAME

2.5.1 **GET**

Returns the repo

Request

```
{
  "name": "centos-6.0-os-x86_64-dev",
  "type": "yum",
  "updated_at": "2012-03-15T17:45Z"
}
```

2.5.2 PUT

Updates or creates the repo.

Request

```
{
   "name": "centos-6.0-os-x86_64-dev",
   "path": "poop",
   "type": "yum"
}
```

Response

• 201 OK on creation.

```
{
   "name": "centos-6.0-os-x86_64-dev",
   "type": "yum",
   "updated_at": "2012-03-15T17:45Z"
}
```

2.5.3 DELETE

Removes the repo. Request has no body.

Response

• 200 OK

2.6 /repo/NAME/packages

2.6.1 **GET**

Get the list of packages in this repo

Response

• 200 OK

8 Chapter 2. API

```
{
  "08cb7b6e5af66461f7c7c3c66e6a7b75cb152c567d8560eda9f8f2b68bcee1e5": {
    "name": "at",
    "filename": "at-3.1.10-42.el6.i686.rpm",
    "shasum": "...",
    "version": "3.1.0"
}
```

2.6.2 PUT

Set the list of packages in this repo. We take two kinds of request bodies:

Request

```
Set the list manually
{
    "08cb7b6e5af66461f7c7c3c66e6a7b75cb152c567d8560eda9f8f2b68bcee1e5": true
}

Sync with an upstream or other repo
{
    "sync": {
        "name": "centos-6.0-os-x86_64",
        "type": "upstream"
    }
}
```

Response

• 200 OK

2.7 /package

2.7.1 GET

A list of all the packages.

Response

• 200 OK

```
{
   "08cb7b6e5af66461f7c7c3c66e6a7b75cb152c567d8560eda9f8f2b68bcee1e5": "http://localhost/package/08cb"
   "09cb7b6e5af66461f7c7c3c66e6a7b75cb152c567d8560eda9f8f2b68bcee1e5": "http://localhost/package/09cb"
}
```

2.8 /package/SHASUM

2.8.1 **GET**

The information we have about the package

2.7. /package 9

Response

```
* 200 OK

{
    "name": "at",
    "filename": "at-3.1.10-42.el6.i686.rpm",
    "shasum": "08cb7b6e5af66461f7c7c3c66e6a7b75cb152c567d8560eda9f8f2b68bcee1e5",
    "version": "3.1.0",
    "upstreams": {
        "centos-6.0-os-x86_64": "http://localhost/upstream/centos-6.0-os-x86_64"
    },
    "repos": {
        "centos-6.0-os-x86_64-dev": "http://localhost/repo/centos-6.0-os-x86_64-dev"
    }
}
```

10 Chapter 2. API

CHAPTER

THREE

INDICES AND TABLES

- genindex
- search