

Pulp v2.14 - Puppet Management

Pulp is a platform for managing repositories of software packages and making it available to a large numbers of consumers. Pulp can locally mirror all or part of a repository, host your own software packages in repositories, and manage many types of content from multiple sources in one place.

The Pulp servers in our PCI infra include:

pulp-austin.india.endurance.com ==> Austin

/ \ ==> DNS LB

pulp-1.aus-tx.colo pulp-2.aus-tx.colo

pulp-mum.india.endurance.com ==> GPX Mumbai

/ \ ==> DNS LB

pulp-1.gpx-mum.colo pulp-2.gpx-mum.colo

pulp-hk.india.endurance.com ==> HK

/ \ ==> DNS LB

pulp-1.tel-hk.colo pulp-2.tel-hk.colo

The Pulp servers in our Non-PCI infra include:

pulp.tel-uk.colo ==> UK

/ \ ==> DNS LB

pulp-3.tel-uk.colo pulp-4.tel-uk.colo

pulp-1.c1-tx.colo (10.249.10.149) ==> C1

There are two kinds of repositories:

1. **Local:** Local repositories are repositories that can be custom made by an individual / team.
2. **Remote:** A remote repository is an external repository provided by a third party provider and is accessible to everyone via the world wide web.

Steps to Add / Delete rpm(s) to an already existing repo (Only for Local repos):

1. Navigate to the following URL: <https://pulp-1.aus-tx.colo/>

2. Click on the Source URL associated with your repo id. If asked for a password, login with your AD login credentials.
3. Click on "Upload file" and add your rpm(s) . To delete, click on the red button preceding the RPM.
4. On the above mentioned URL, click on the "Sync" Button to add/delete the rpm(s) in question and sync across all other pulp boxes.

YAML file: modules/profile/files/pulp/pulp.yaml (Puppet 5 repo)

Steps to Add a repo:

1. In case its a local repository, [Click here](#) to navigate to add the rpm's you wish to sync locally. If asked for a password, login with your AD login credentials.
2. Create a specific directory under /mnt/rpms/ and add rpm(s) under that.
3. You can see the absolute path mentioned above which will look like '/mnt/rpms/centos7'
4. Mention the path 'centos7' ignoring '/mnt/rpms/' in the above mentioned YAML file.
5. Irrespective of it being a local or a remote repo, update the above mentioned YAML file in the following format:

```
centos7:
  type: "local"
  source: "centos7/"
Mysql-Percona-CentOS6-x86_64:
  type: "remote"
  source: "http://repo.percona.com/centos/6Server/os/x86_64/"
```

Where 'centos7' and 'Mysql-Percona-CentOS6-x86_64' are the name of the repositories.

Steps to delete a repo:

Edit the mentioned YAML file and remove the reference to your repo. An example reference which will need to be removed will be:

```
centos7:
  type: "local"
  source: "centos7/"
```

How to use your synced pulp repo:

Once the sync has happened across all the servers, you can add the Repo URL in a file under your `/etc/yum.repos.d/` directory. To obtain your repo URL, navigate here and click on your Repository name. This opens a new tab and you can that URL in your repo file if your box is in Austin. Alternatively, you can change the hostname to any other Pulp box in any other DC to avoid latency. The hostname of the Pulp boxes is mentioned at the top of this page.

For eg, say you have a server in GPX Mumbai DC and we want to use the 'centos7' repo we created, we would use the pulp server that is in GPX to avoid latency.

`/etc/yum.repos.d/` directory:

`baseurl = https://pulp-mum.india.endurance.com/pulp/repos/centos7/`

Also, add the following line in your repo file as we are using self signed certs:

`sslverify=false`

PS: Kindly report to the SOC team if the repos created are taking more than 1 hour to sync across all the servers, post pushing of changes to the puppet repo.