Installing Zabbix Version 2.4 Offline (Zabbix Server without Internet).

There might be situations where you have a remote/zabbix server which does not have internet connectivity, due to security or other reasons. So we create a custom repo on the remote/zabbix server so that we can install zabbix using `rpms`

Here is how we are planning to do this.

1. Download all the dependency `rpms` on a machine which has internet connection, using `yum-downloadonly` or `repotrack`.
2. Transfer all the `rpms` to the remote server.
3. Create a `repo` on the remote server.
4. Update yum configuration.
5. Install.

NOTE: This method can be used to install any application, but here we have used `zabbix` as we had this requirement for a zabbix server.

Download dependent `rpms`.

On a machine which has internet connection install the package below. And download all the `rpms`. Make sure the system are similar (not required to be identical - At-least the OS should be of same version)

```
mkdir /zabbix_rpms
yum install yum-downloadonly
```

Downloading all the rpms to location `/zabbix_rpms/`, `--downloadonly` will only download the package but not install them. `--downloadonly` option to set downloadonly, `--downloaddir=/zabbix_rpms/` setting path to download.

```
yum install mysql-server mysql -y --downloadonly --downloaddir=/zabbix_rpms/
yum install zabbix-server-mysql zabbix-web-mysql -y --downloadonly --downloaddir=/zabbix_rpms/
yum install zabbix-agent  -y --downloadonly --downloaddir=/zabbix_rpms/
yum install createrepo -y --downloadonly --downloaddir=/zabbix_rpms/
```

To download all dependent `rpms` use `repotrack`.

```
repotrack -a x86_64 -p /zabbix_rpms/ [package]
```

There was a dependency on the remote server which was not resolving. So we download all the `rpms` recursively which resolved the issue.

```
[root@internet-access-server ahmed]# repotrack -a x86_64 -p /zabbix_rpms/  lm_sensors
Downloading basesystem-10.0-4.el6.noarch.rpm
Downloading bash-4.1.2-33.el6_7.1.x86_64.rpm
Downloading chkconfig-1.3.49.3-5.el6.x86_64.rpm
Downloading db4-4.7.25-20.el6_7.x86_64.rpm
Downloading dmidecode-2.12-6.el6.x86_64.rpm
Downloading filesystem-2.4.30-3.el6.x86_64.rpm
Downloading gdbm-1.8.0-38.el6.x86_64.rpm
Downloading glibc-2.12-1.166.el6_7.3.i686.rpm
```

```
Downloading glibc-2.12-1.166.el6_7.3.x86_64.rpm
Downloading glibc-common-2.12-1.166.el6_7.3.x86_64.rpm
Downloading libattr-2.4.44-7.el6.x86_64.rpm
Downloading libcap-2.16-5.5.el6.x86_64.rpm
Downloading libgcc-4.4.7-16.el6.i686.rpm
Downloading libgcc-4.4.7-16.el6.x86_64.rpm
Downloading libselinux-2.0.94-5.8.el6.x86_64.rpm
Downloading libsepol-2.0.41-4.el6.i686.rpm
Downloading libsepol-2.0.41-4.el6.x86_64.rpm
Downloading lm_sensors-3.1.1-17.el6.x86_64.rpm
Downloading lm_sensors-libs-3.1.1-17.el6.x86_64.rpm
Downloading ncurses-base-5.7-4.20090207.el6.x86_64.rpm
Downloading ncurses-libs-5.7-4.20090207.el6.x86_64.rpm
Downloading ncurses-libs-5.7-4.20090207.el6.i686.rpm
Downloading nss-softokn-freebl-3.14.3-23.el6_7.i686.rpm
Downloading nss-softokn-freebl-3.14.3-23.el6_7.x86_64.rpm
Downloading perl-5.10.1-141.el6_7.1.x86_64.rpm
Downloading perl-Module-Pluggable-3.90-141.el6_7.1.x86_64.rpm
Downloading perl-Perlilog-0.3-4.el6.noarch.rpm
Downloading perl-Pod-Escapes-1.04-141.el6_7.1.x86_64.rpm
Downloading perl-Pod-Simple-3.13-141.el6_7.1.x86_64.rpm
Downloading perl-libs-5.10.1-141.el6_7.1.x86_64.rpm
Downloading perl-libs-5.10.1-141.el6_7.1.i686.rpm
Downloading perl-version-0.77-141.el6_7.1.x86_64.rpm
Downloading popt-1.13-7.el6.x86_64.rpm
Downloading setup-2.8.14-20.el6_4.1.noarch.rpm
Downloading tzdata-2015g-2.el6.noarch.rpm
[root@internet-access-server ahmed]# cd /repos/packages/
```

Transfer all `rpms` to the remote server.

First we archive it.

```
[root@internet-access-server /]# tar czf zabbix_rpms.tgz zabbix_rpms
```

Now send the archived file.

```
[root@internet-access-server /]# scp zabbix_rpms.tgz root@10.222.73.88:/tmp/
The authenticity of host '10.222.73.88 (10.222.73.88)' can't be established.
RSA key fingerprint is ed:a9:e2:50:6d:45:5b:bb:0f:2e:53:90:ee:86:f7:26.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.222.73.88' (RSA) to the list of known hosts.
root@10.222.73.88's password:
zabbix_rpms.tgz                                               100%   23MB  30.2KB/s   13:05
[root@internet-access-server /]#
```

Create a `repo` on the remote server.

```
rpm -ivh deltarpm-3.5-0.5.20090913git.el6.x86_64.rpm
rpm -ivh python-deltarpm-3.5-0.5.20090913git.el6.x86_64.rpm
rpm -ivh createrepo-0.9.9-22.el6.noarch.rpm
```

Executing output.

```
[root@remote-zabbix-server ZBX_RPMS]# rpm -ivh deltarpm-3.5-0.5.20090913git.el6.x86_64.rpm
warning: deltarpm-3.5-**6.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID c105b9de: NOKEY
Preparing...                ########################################### [100%]
```

```
   1:deltarpm               ########################################### [100%]
[root@remote-zabbix-server ZBX_RPMS]# rpm -ivh python-deltarpm-3.5-0.5.20090913git.el6.x86_64.rpm
warning: python-delta*t.el6.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID c105b9de: NOKEY
Preparing...               ########################################### [100%]
   1:python-deltarpm        ########################################### [100%]
[root@remote-zabbix-server ZBX_RPMS]# rpm -ivh createrepo-0.9.9-22.el6.noarch.rpm
warning: createrepo-**ch.rpm: Header V3 RSA/SHA1 Signature, key ID c105b9de: NOKEY
Preparing...               ########################################### [100%]
   1:createrepo             ########################################### [100%]
```

Create directory for RPMS.

```
mkdir -p /custom_repo/yum-channels/custom-repo-channel-sys/x86_64/
```

Create repo now.

```
createrepo /custom_repo/yum-channels/custom-repo-channel-sys/x86_64/
```

Update yum configuration.

Update configuration to make the new `repo` available to `yum`.

Setting up repo in `/etc/yum.repos.d` Location.

Create a file call `custom-channel.repo` here.

```
[custom-repo-channel-appsrc-repo]
name=Custom Channel Sys Source Repository [ZABBIX]
baseurl=file:///custom_repo/yum-channels/custom-repo-channel-sys/x86_64
gpgcheck=0
enabled=1
proxy=_none_
```

Checking for the new repo added.

First we clean the repo.

```
[root@remote-zabbix-server x86_64]# yum clean all
Loaded plugins: product-id, security, subscription-manager
Cleaning repos: custom-repo-channel-appsrc-repo
Cleaning up Everything
```

Updating `repolist` now.

```
[root@remote-zabbix-server x86_64]# yum repolist
Loaded plugins: product-id, security, subscription-manager
custom-repo-channel-appsrc-repo                                          | 2.9 kB     00:00 ...
custom-repo-channel-appsrc-repo/primary_db                               |  27 kB     00:00 ...
repo id                              repo name                                          status
custom-repo-channel-appsrc-repo      Custom Channel Sys Source Repository [ZABBIX]       28
repolist: 28
```

Checking for `rpms` from the newly created `repo`.

```
[root@remote-zabbix-server x86_64]# yum list zabbix-server-mysql
Loaded plugins: product-id, security, subscription-manager
Available Packages
zabbix-server-mysql.x86_64          2.4.7-1.el6                   custom-repo-channel-appsrc-repo
[root@remote-zabbix-server x86_64]#
```

Now we are ready to "Install".

Standard installation instrutions in the link below.

`http://zubayr.github.io/zabbix-install-centos/`