

## Addon-manager

addon-manager manages two classes of addons with given template files in `$ADDON_PATH` (default `/etc/kubernetes/addons/`).

- Addons with label `addonmanager.kubernetes.io/mode=Reconcile` will be periodically reconciled. Direct manipulation to these addons through apiserver is discouraged because addon-manager will bring them back to the original state. In particular:
  - Addon will be re-created if it is deleted.
  - Addon will be reconfigured to the state given by the supplied fields in the template file periodically.
  - Addon will be deleted when its manifest file is deleted from the `$ADDON_PATH`.
- Addons with label `addonmanager.kubernetes.io/mode=EnsureExists` will be checked for existence only. Users can edit these addons as they want. In particular:
  - Addon will only be created/re-created with the given template file when there is no instance of the resource with that name.
  - Addon will not be deleted when the manifest file is deleted from the `$ADDON_PATH`.

Notes:

- Label `kubernetes.io/cluster-service=true` is deprecated (only for Addon Manager). In future release (after one year), Addon Manager may not respect it anymore. Addons have this label but without `addonmanager.kubernetes.io/mode=EnsureExists` will be treated as "reconcile class addons" for now.
- Resources under `$ADDON_PATH` need to have either one of these two labels. Otherwise it will be omitted.

## Images

addon-manager images are pushed to `k8s.gcr.io`. As addon-manager is built for multiple architectures, there is an image per architecture in the format - `k8s.gcr.io/addon-manager/kube-addon-manager-$(ARCH):$(VERSION)`.

## How to release

The `addon-manager` is built for multiple architectures.

1. Change something in the source
2. Bump `VERSION` in the `Makefile`
3. Bump `KUBECTL_VERSION` in the `Makefile` if required
4. Build the `amd64` image and test it on a cluster
5. Push all images

```
# Build for linux/amd64 (default)
$ make push ARCH=amd64
# ---> staging-k8s.gcr.io/addon-manager/kube-addon-manager-amd64:VERSION
# ---> staging-k8s.gcr.io/addon-manager/kube-addon-manager:VERSION (image with
backwards-compatible naming)

$ make push ARCH=arm
# ---> staging-k8s.gcr.io/addon-manager/kube-addon-manager-arm:VERSION

$ make push ARCH=arm64
```

```
# ---> staging-k8s.gcr.io/addon-manager/kube-addon-manager-arm64:VERSION

$ make push ARCH=ppc64le
# ---> staging-k8s.gcr.io/addon-manager/kube-addon-manager-ppc64le:VERSION

$ make push ARCH=s390x
# ---> staging-k8s.gcr.io/addon-manager/kube-addon-manager-s390x:VERSION
```

If you don't want to push the images, run `make` or `make build` instead