

Using Umbrella Charts with epic-app

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Introduction

Umbrella charts are a way to handle [many dependencies](#) and are a good way to deploy monorepos or a set of services at once.

```
umbrella chart
└─
  | + Awesome Service 1 Subchart
  | + Awesome Service 2 Subchart
  | + Awesome Service 3 Subchart
  | + ...
  └─
```

Creating an umbrella chart

There are two ways to create an umbrella chart, both require a `Chart.yaml` containing a `dependency` property.

Using already available charts

Wrapping already available helm charts into an umbrella chart is pretty straight forward. The charts just need to be referenced in the umbrella `Chart.yaml` with the desired version and the url to the helm repo where they reside.

Installing or pushing the umbrella chart will handle the rest.

Note: If a service was installed using an umbrella chart, it is not possible to install that service stand-alone (in the sense of replacement)

```
# Chart.yaml
apiVersion: v2
name: Awesome Name
description: "Awesome Service Umbrella"
type: application
```

```
version: 1.0.0
appVersion: 1.0.0-branch+1234

dependencies:
  - name: "Awesome Service 1"
    version: 1.0.1
    repository: "<URL_TO_HELM_REPOSITORY>"
  - name: "Awesome Service 2"
    version: 1.0.2
    repository: "<URL_TO_HELM_REPOSITORY>"
  - name: "Awesome Service 3"
    version: 2.5.0
    repository: "<URL_TO_HELM_REPOSITORY>" chart, it is not possible to
```

Using local charts

In some cases you want to use subcharts that don't exist in a repository. One example would be codefresh. If the helm repo is linked to codefresh each chart would show up in the UI as installable. Referring back to the note above, that is not possible for subcharts under an umbrella chart (It would be possible if they share the same release name but that would uninstall all other resources installed by the other subcharts). Therefore it makes no sense to push them to the repository in the first place.

So, instead of pushing the subcharts into the repository, we keep them in the `chart` folder of the umbrella chart once in folder named `subcharts` (could be any name) and once in the `charts` folder.

Note: Normally it should be enough to keep the subcharts in the `subchart` folder, and then helm puts them into the `charts` folder during the push or install step. Currently that happens kind of, but instead of copying the subchart's folder, helm creates an archive which then leads to an error in the install phase.

```
# Umbrella chart folder
.
..
├ charts/
│   ├── Awesome-Service-1
│   │   └── charts/
│   │       ├── epic-app/
│   │       ├── values.yaml
│   │       └── Chart.yaml
│   ├── Awesome-Service-2
│   └── Awesome-Service-3
├ subcharts/
│   ├── Awesome-Service-1
│   ├── Awesome-Service-2
│   └── Awesome-Service-3
└ Chart.yaml
```

With the subcharts in place, the `Chart.yaml` needs to point to them.

```
# Chart.yaml
apiVersion: v2
name: Awesome Name
description: "Awesome Service Umbrella"
type: application
version: 1.0.0
appVersion: 1.0.0-branch+1234

dependencies:
  - name: "Awesome Service 1"
    version: 1.0.1
    repository: "file://subcharts/Awesome-Service-1"
  - name: "Awesome Service 2"
    version: 1.0.2
```

```
repository: "file://subcharts/Awesome-Service-2"
- name: "Awesome Service 3"
  version: 2.5.0
  repository: "file://subcharts/Awesome-Service-3"
```

Getting epic-app chart into a local subchart

If your local subchart has a dependency on epic-app you would need to put it into a `charts` folder inside your subchart.

Therefore you need to download the chart, unpack it and put it there:

```
helm pull epic-app --version ~3.4.0 --repo https://charts.substrate.on.
mkdir charts
mv epic-app ./charts/
# for some reason helm creates a folder for the content as well as an e
rm -rf epic-app*
```

Use epic-app name overwrites

The resources names will be based on the release name which will lead to deploy errors with umbrella charts.

Therefore each subchart needs to make use of the override-properties for epic-app inside it's `values.yaml`:

```
# values.yaml
epic-app:
  fullnameOverride: "Awesome-Service-X"
  nameOverride: "Awesome-Service-X"
  instanceOverride: "Awesome-Service-X"
```

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