Choice of DNS

Context and Problem Statement

Every Kubernetes installation requires a Domain Name Server (DNS) to serve apps via human-readable URL's instead of IP addresses.

Decision Drivers

- Solution needs to be Open Source
- OSS Project needs to have good community adoption
- Solution has been widely proven in the market
- Provides an API for automation

Considered Options

- PowerDNS
- Knot DNS
- MaraDNS

Decision Outcome

Chosen option: PowerDNS, because

- PowerDNS meets decision driver: 'needs to be Open Source'
- PowerDNS meets decision driver: 'good community adoption'
- PowerDNS meets decision driver: 'Solution has been widely proven in the market'
- PowerDNS meets decision driver: 'Provides an API for automation'

Aditionally, we find PowerDNS a good choice because:

- It is being supported by ExternalDNS, for automatically exposing k8s resources via DNS

More Information

- For general aims in Kubit that may effect this desision, please see section 'Mission Statement' [here](#)