# Installation

Anton Gavrik edited this page on 26 Sep, 2018 · [39 revisions](https://github.com/polaris-gslb/polaris-gslb/wiki/Installation/_history)

### Pages 5



 [Home](https://github.com/polaris-gslb/polaris-gslb/wiki)

  [Building packages from source.](https://github.com/polaris-gslb/polaris-gslb/wiki/Building-packages-from-source.)

  [Installation](https://github.com/polaris-gslb/polaris-gslb/wiki/Installation)

* [Dependencies](https://github.com/polaris-gslb/polaris-gslb/wiki/Installation#dependencies)
* [CentOS 7 dependencies installation example](https://github.com/polaris-gslb/polaris-gslb/wiki/Installation#centos-7-dependencies-installation-example)
* [Install Polaris GSLB](https://github.com/polaris-gslb/polaris-gslb/wiki/Installation#install-polaris-gslb)

  [LB configuration](https://github.com/polaris-gslb/polaris-gslb/wiki/LB-configuration)

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[Overview](https://github.com/polaris-gslb/polaris-gslb/wiki/Overview)

[Add a custom sidebar](https://github.com/polaris-gslb/polaris-gslb/wiki/_new?wiki%5Bname%5D=_Sidebar)

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### Dependencies

* PowerDNS Authoritative Server + remote backend.
* memcache
* Python3.4.3+
* pyyaml
* python-memcached
* python-daemon-3K

#### CentOS 7 dependencies installation example

yum install -y epel-release

yum install -y python34 python34-pip python34-PyYAML pdns pdns-backend-remote memcached

pip3 install python3-memcached python-daemon-3K

### Install Polaris GSLB

git clone https://github.com/polaris-gslb/polaris-gslb.git

cd polaris-gslb

python3 setup.py install

This should also install pyyaml, python-memcached and python-daemon-3K libraries via PIP.

The following files are created:

/opt/polaris/

├── bin

│   ├── check-pdns

│   ├── polaris-health

│   ├── polaris-health-control

│   ├── polaris-memcache-control

│   ├── polaris-pdns

│   └── polaris-pdns-control

├── etc

│   ├── pdns.conf.dist

│   ├── polaris-health.yaml.dist

│   ├── polaris-lb.yaml.dist

│   ├── polaris-pdns.yaml.dist

│   └── polaris-topology.yaml.dist

└── run

/etc/default/polaris

Ensure /etc/default/polaris has a correct PATH to py3 executable, e.g.:

export PATH=$PATH:/opt/python3/bin

export POLARIS\_INSTALL\_PREFIX=/opt/polaris

Install the Polaris-specific PDNS configuration file

cp /opt/polaris/etc/pdns.conf.dist /etc/pdns/pdns.conf

Copy /opt/polaris/etc/\*.dist files into \*.yaml or create new ones and configure:

* polaris-lb.yaml - LB configuration
* polaris-topology.yaml - topology configuration
* polaris-health.yaml - Polaris health general parameters
* polaris-pdns.yaml - Polaris PDNS general parameters

Start pdns

Use /opt/polaris/bin/polaris-health [status|start|start-debug|stop|restart] to control the Polaris health application.

/opt/polaris/bin/polaris-memcache-control 127.0.0.1 [get-generic-state|get-ppdns-state|get-heartbeat|check-heartbeat] can be used to display various memcache values set by Polaris.

* get-ppdns-state shows the state table used for query distribution
* get-generic-state shows the full health table