



# Network Policy support at Kuryr

BigDataStack Software Component developed by Red Hat

## Description

Support for Kubernetes25 Network Policies API at Kuryr.

## Features

It adds support for defining and enforcing Kubernetes Network Policies at Kuryr. The Kuryr support creates the needed OpenStack26 Security Groups and Security Group Rules to ensure the defined Network Policy is enforced.

## Areas of Application

Deploying containerized applications on OpenShift27/Kubernetes which require specific fine-grain network access policies. The support at Kuryr is needed when OpenShift/Kubernetes is deployed on top of OpenStack cloud (which avoids double encapsulation and hence greatly improves network bandwidth).



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## Market trends & opportunities

Make Kuryr project a more solid and appealing Container Network Interface (CNI) for OpenShift/Kubernetes deployment.

## Customer benefits

Possibility of using Network Policies while at the same time getting a big boost into the network performance (up to 9x).

## Technological novelty

Use of OpenStack Security Groups to back up Kubernetes Network Policies.

## TRL level: 9

## Find the Open Source code here:

• <https://opendev.org/openstack/kuryr-kubernetes>

