



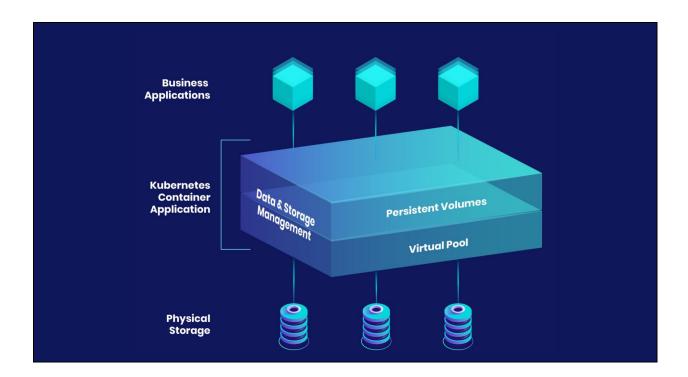
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Introduction To Ionir

lonir is a container-native data platform for Kubernetes. Ionir can virtualize all available storage in a Kubernetes cluster to create a single pool of highly scalable storage. Ionir provides a Container Storage Interface (CSI) plugin that allows storage to be provisioned and managed by Kubernetes.

In addition to providing resilient, high-performance storage, lonir provides end-to-end data management capabilities. The lonir architecture separates the metadata from the data, which enables unique data management capabilities such as 1-second RPO, instant clones, and instant data mobility between clusters and clouds. lonir's microservices architecture provides a unified data platform that is elastic, scalable, and agile, which is critical for the next containerized cloud applications.



Ionir CLI (ionirctl)

lonir CLI (ionirctl) is the command line interface used to script or manage lonir operations. Ionirctl enables users to manage lonir storage, manage lonir clusters and get information about the managed clusters.

Requirements

Ionir CLI (ionirctl) can be installed on any

Linux machine. The machine must have network connectivity to the management urls of the lonir clusters you would like to manage.

Installation Process

To install lonir CLI perform the following steps (on a linux machine)

1. Copy relevant ionirctl.<locale> files to your local folder

You can use the following command to copy the directory:

```
kubectl -n ionir cp ionirctl-0:install <destination dir>
```

- 2. Copy ionir_install.sh to your local folder
- 3. Run

```
ionir install.sh -l <locale>
```

with the relevant locale. Default value is en-US

Note: you may need to add execute permissions (chmod +x) to the install.sh file Required packages - bash; bash-completion curl miller jq

4. Run the following command to complete the installation:

```
source ~/ionirctl bash completion
```

Security

Ionir uses OpenID for user identification and authorization. All ionirctl commands are authenticated before they can run.

To configure the cluster url and the user credentials run the following command

```
ionirctl configure
```

The command will prompt for the cluster DNS/IP (Ionir Cloud Manager), User and Password.

```
$ ionirctl configure
Ionir Cluster DNS/IP []: <cluster-url>
User: <user>
Password: <Password>
```

To update the cluster information or credentials, rerun the command.

IonirCLI Operations

CLi Commands

Ionir CLI (ionirctl) is based on Ionir REST commands. To view the list of the available REST commands, see the <u>Ionir REST commands</u> section.

lonir CLI requires a cluster url (endpoint) and the credentials in order to connect to the lonir cloud. It uses the information that was entered in during the <u>configuration step</u> to connect to the lonir Cloud and run CLI commands on the clusters that are part of the cloud.

The following example displays all the clusters in the Ionir Cloud:

```
ionirctl getClusters
```

Ionirctl Usage

When the REST command does not have a body, run:

```
ionircli <operation>
```

Example:

```
ionirctl getClusters
```

When the REST command has a body, run:

With body: <json> | ionirctl <operation>

```
echo '{"extClusterId":"2"}' | ionirctl
```

Example:

```
echo '{"clusterName":"Miko","clusterColor":"#EF9B0F"}' | ionirctl
setupCluster clusterId=0
```

Ionirctl Autocomplete

Ionirctl has an autocomplete mechanism:

To use autocomplete, tap the "Tab" button.

To view all available options, double tap the "Tab" button to view all options.

Ionirctl Help

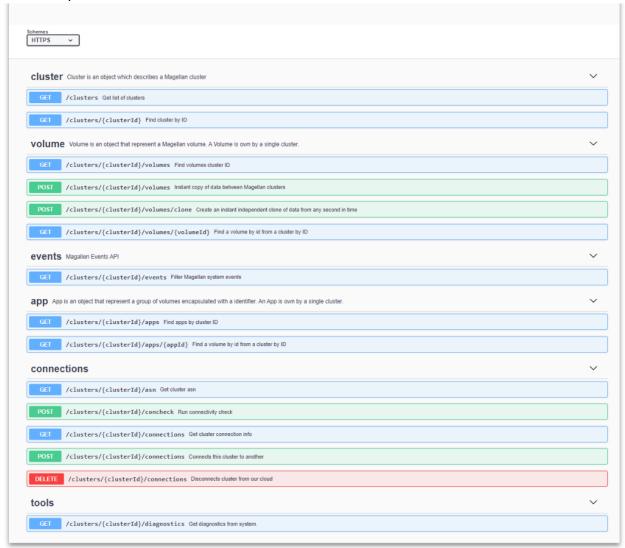
Use ionirctl --help or ionirctl -h to view the help

Ionir REST Calls

To get the full list of Ionir REST commands, open the Ionir API page by going to:

<Ionir-address>/api/v1/swagger#/

This will open the



Note: the app POST command has been deprecated



Ionirctl Commands Reference

[app]

getClusterAppById Find a volume by id from a cluster by ID

getClusterApps Find apps by cluster ID

[cluster]

getClusterByld Find cluster by ID getClusters Get list of clusters

[connections]

connectExternalCluster Connects this cluster to another
disconnectExternalCluster Disconnects cluster from our cloud

getConnections Get cluster connection info

getsAsn Get cluster asn

runConcheck Run connectivity check

[events]

getEvents Filter Ionir system events

[namespace]

getClusterNamespaces Get cluster namespaces

[tools]

getDiagnostics Get diagnostics from system.
getHistoryPolicies Get cluster historyPolicies

[volume]

cloneVolume Create an instant independent clone of data from any second

in time

copyVolume Instant copy of data between Ionir clusters

editVolume Edit a volume by id at a cluster by ID

getClusterVolumeById Find a volume by id from a cluster by ID

getClusterVolumes Find volumes cluster ID

setVolumeTeleportIntensity