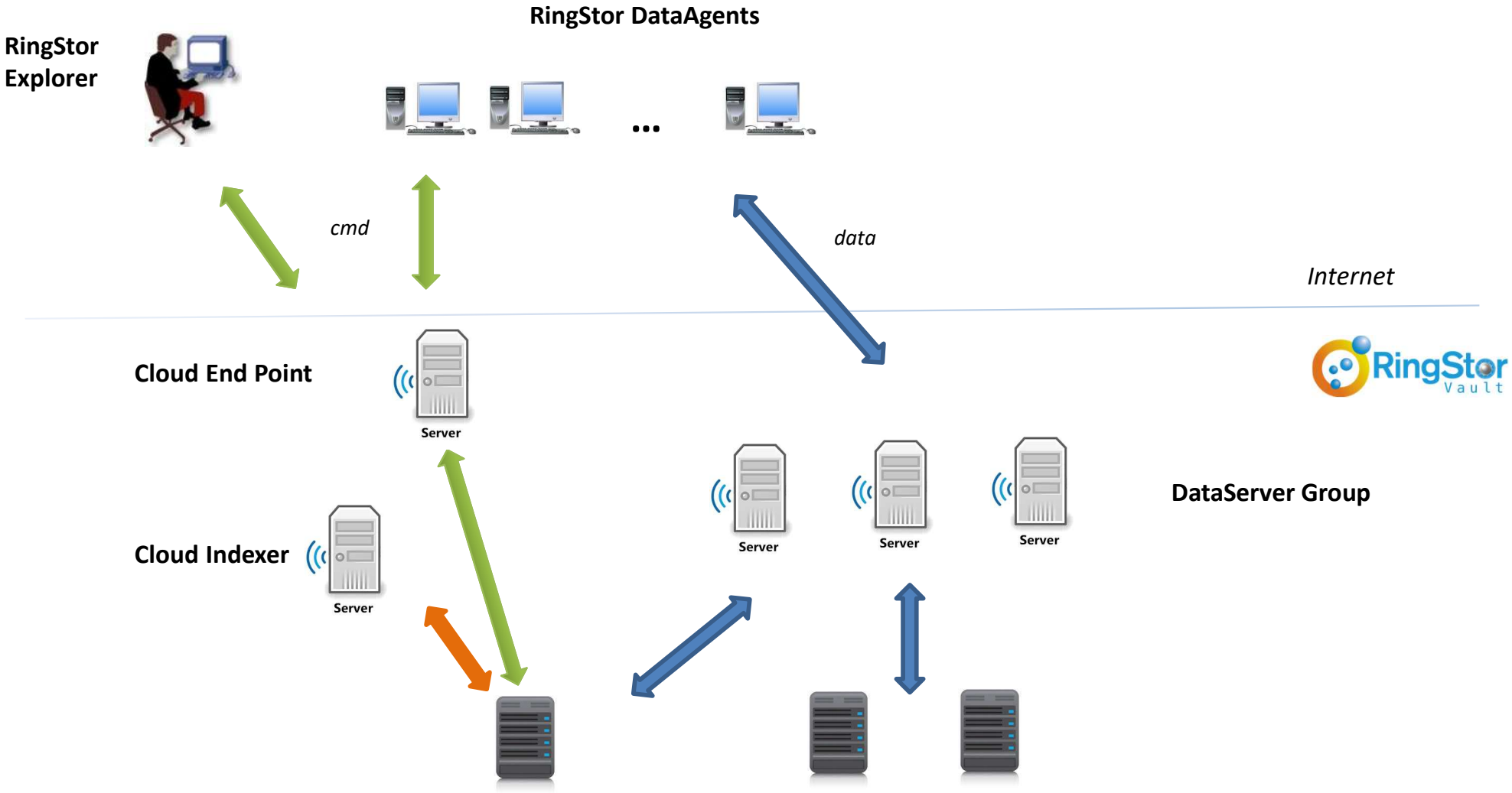
What makes RingStor Enterprise unique?

Complete Private Cloud Backup and Recovery Software Solution:

- **Proven Scalability** - Support 5000+ concurrent backups at partner site
- **Multi-tenant and multi-level** - Tailored data protection solution for every client
- **OpenStack** - Unique backup solution to protect volumes at up to 2TB/hour on one backup agent
- **Synology, Qnap Support** - Backup agent runs directly on NAS, fast and convenient
- **Deduplication** - At both file and block level
- **Administrative Easy** - Dashboard, alerts, automated reports, and more
- **Integration** - Development API for third party integration
- **Partner Program** - White label ready and dedicated support

RingStor Cloud



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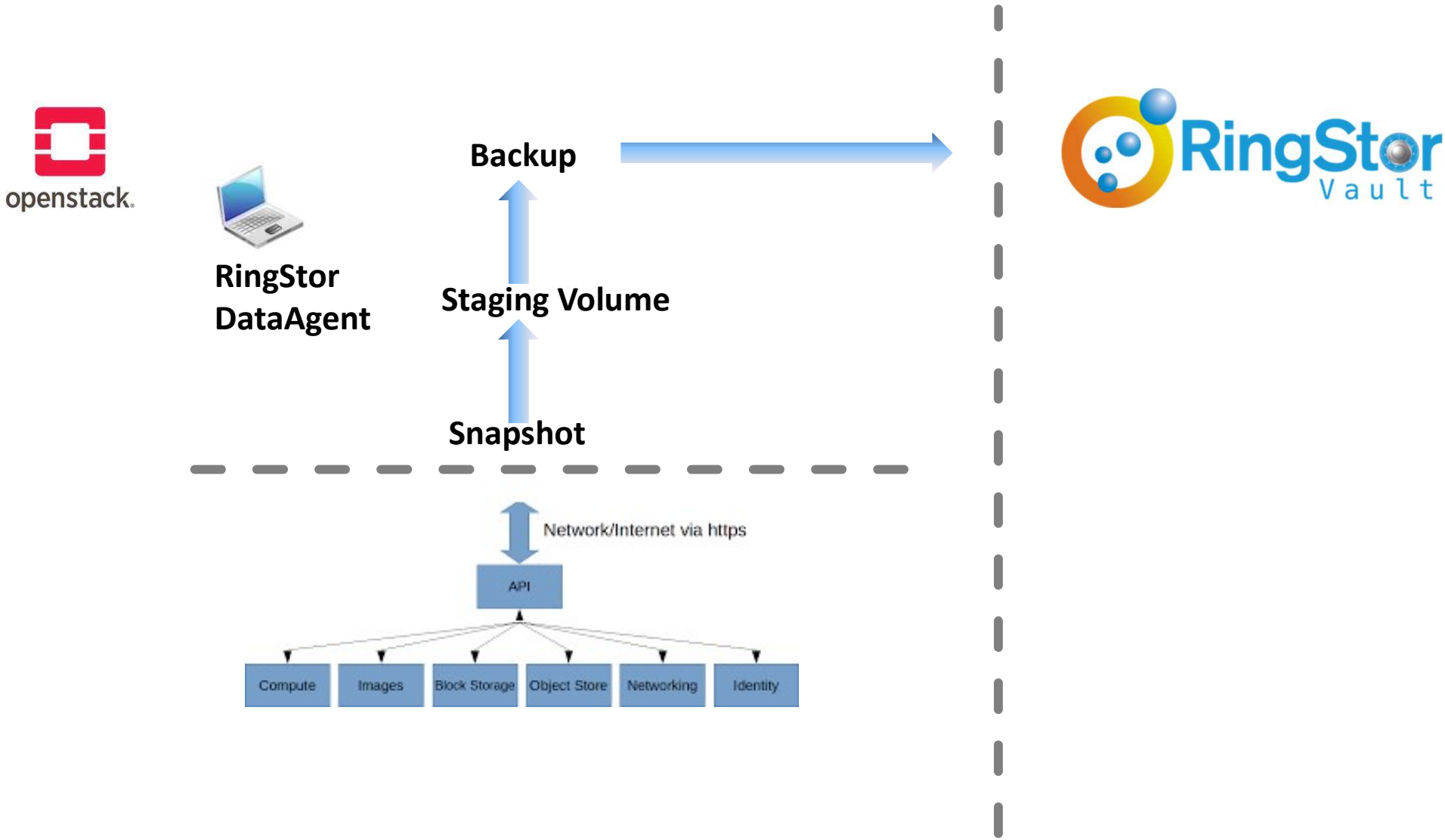
RingStor OpenStack



OpenStack Backup Overview

Backup Modes

- Online: backup directly to RingStor Vault

Backup Type

- Full: all blocks on the volume are backed up
- Incremental: blocks modified since last backup are backed up

Backup Volumes

- Volumes from instances are listed
- Snapshot of each volume is taken
- A staging volume is created from the snapshot
- The staging volume is attached to RingStor DataAgent in OpenStack
- The staging volume is read into blocks
- The changed blocks are backed up

OpenStack Backup Steps

Create Linux-based Instance in OpenStack

- Minimum Free Space: 20GB
- Minimum Memory: 2GB

Install RingStor DataAgent software in Instance

Create DataSet from RingStor Explorer

Schedule Backup

Schedule Backup

Recurring incremental backup is essential to protect files

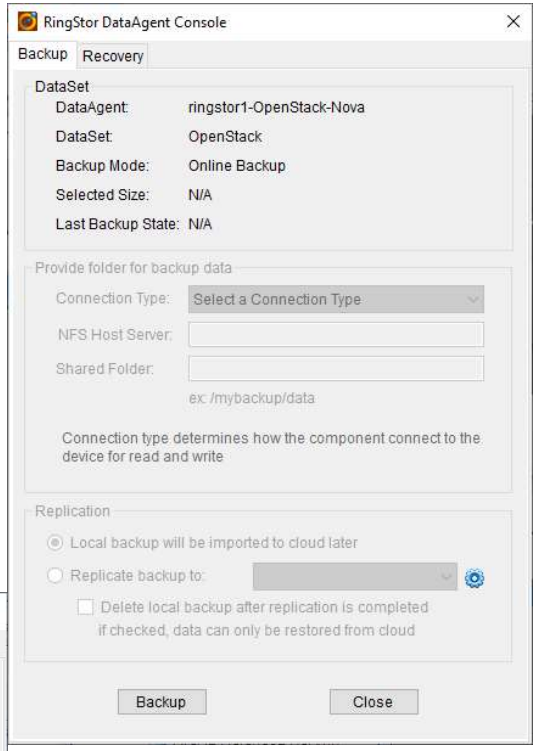
Step 1 – Log into RingStor Explorer

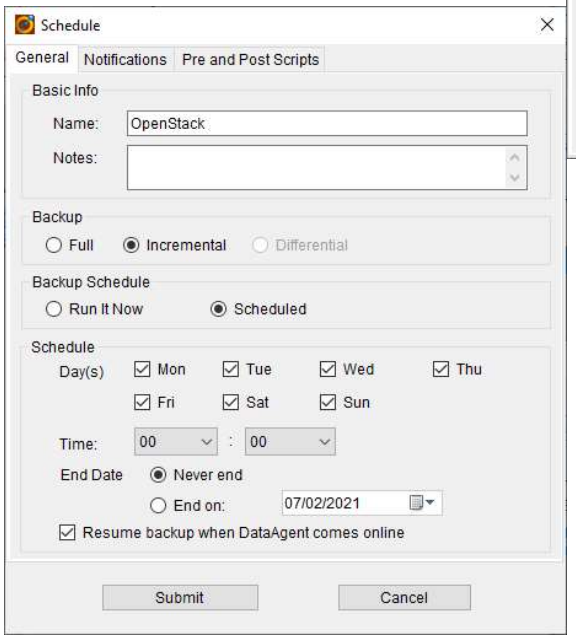
Step 2 – On left pane, select community, DataAgent, and click OpenStack Backup to bring up DataSets in right pane

Step 3 – Right click a DataSet in right pane, click Backup and Recover menu

Step 4 – On Backup tab, click Backup button

Step 5 – Set schedule details, notification if needed





Restore

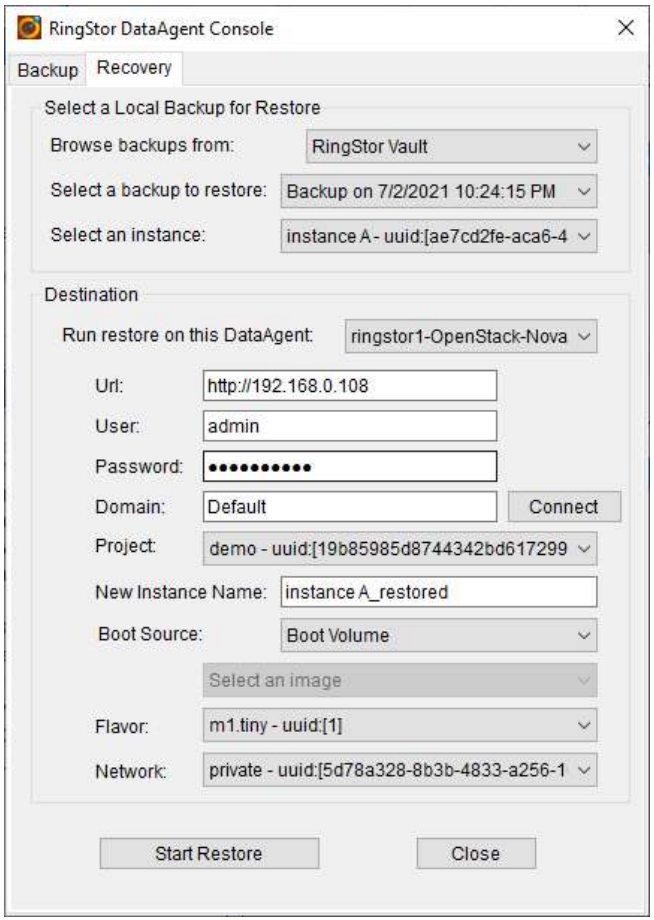
Step 1 – Log into RingStor Explorer

Step 2 – On left pane, select community, DataAgent, and click OpenStack Backup to bring up DataSets in right pane

Step 3 – Right click a DataSet in right pane, click Backup and Recover menu

Step 4 – On Recovery tab, set restore parameters.

Step 5 – Click Start Restore



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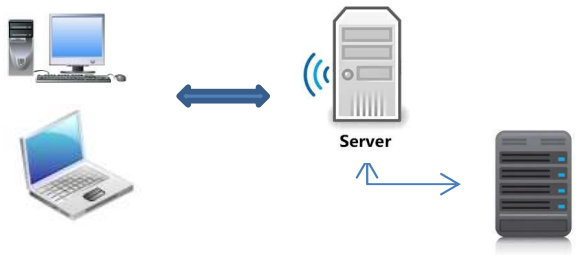
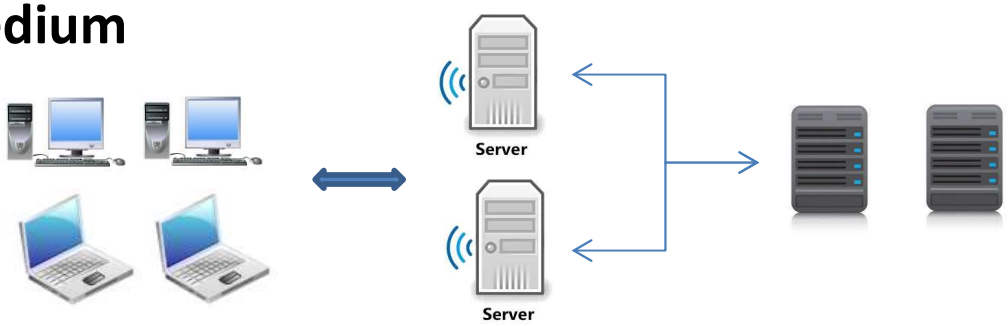
RingStor Fits

Small



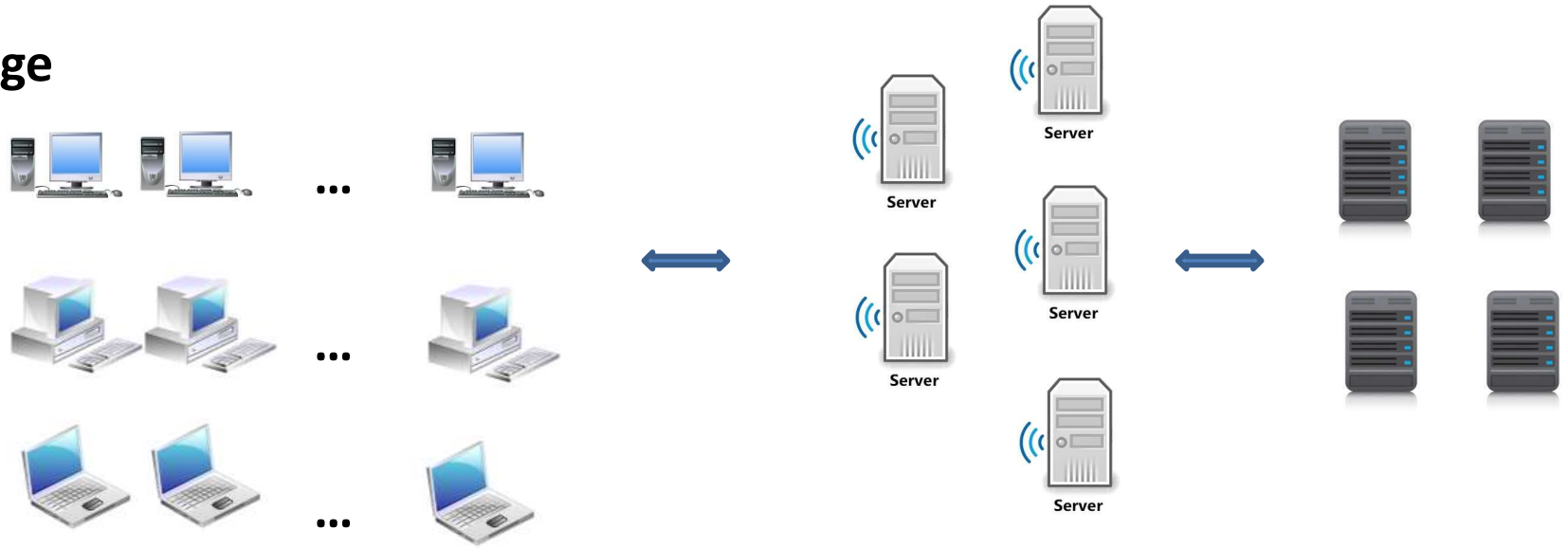
Clients Data Center

Medium



Clients Data Center

Large



Clients Data Center

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Application Aware

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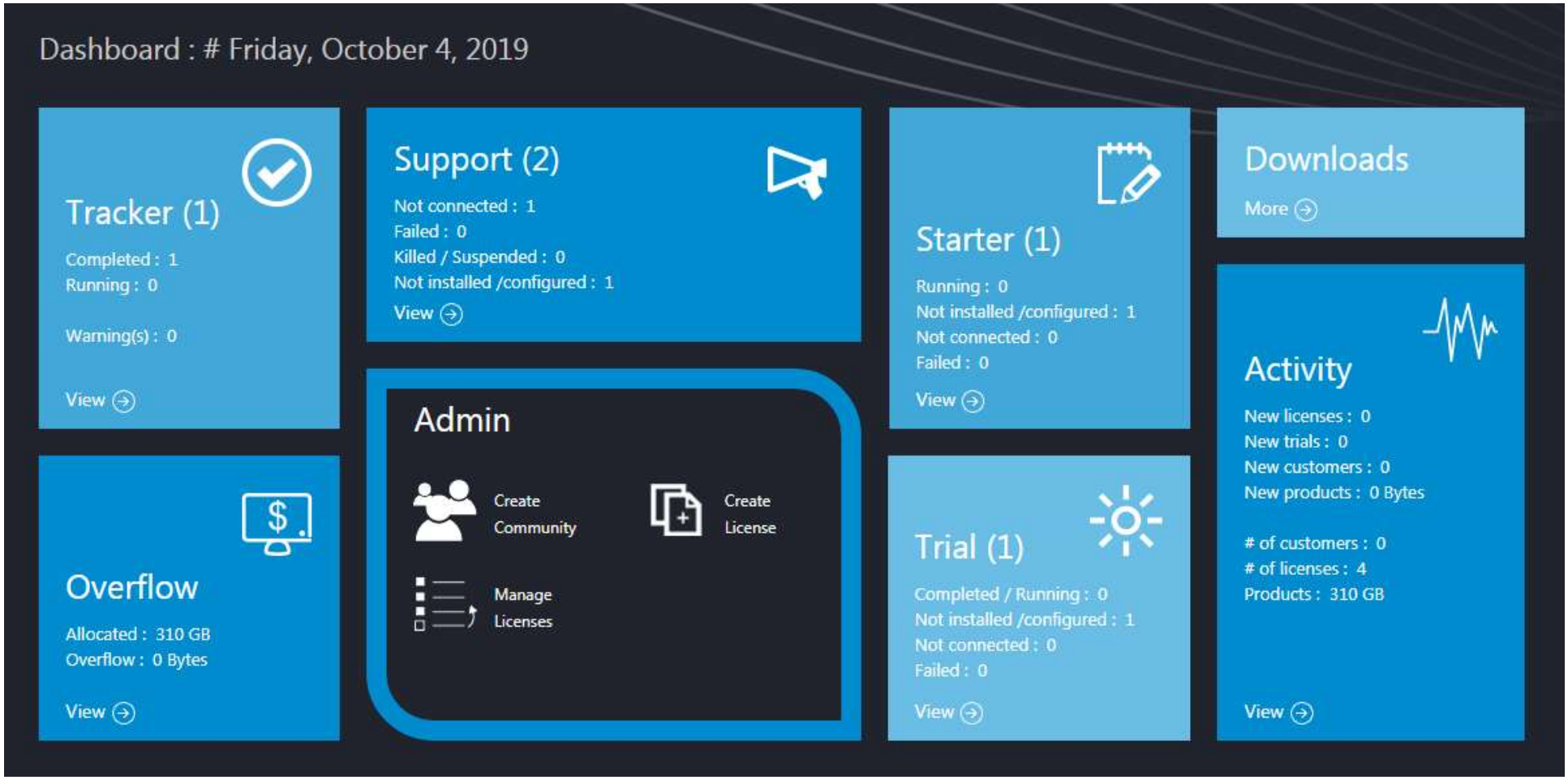
API for Partners

RingStor provides API for Partners to integrate with RingStor private cloud



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