

Backroll 1.0 is out

COMMITTED DIGITAL EXPERTISE

WWW.DIMSI.FR/CLOUD-SERVICES/BACKROLL/

Your Speakers



Matthias

DHELLIN

Backend developer
Backroll integrator
C# / Docker developer, Matthias works on the containerization of Backroll components

Ousmane

DIARRA

Backend developer
Backroll integrator
C# / Python Developer, Ousmane worked mainly on the Backroll side

Pierre

CHARTON

Senior backend developer
Backroll integrator
Senior C# / Java developer, Pierre provides Backroll integration within Apache Cloudstack

Who are we?

About Dimsi.

What's Backroll?

All the features you need to build a backup strategy
Backup & restore Plugin for Cloudstack.

What's new?

All Backroll and plugin new updates.

Roadmap

What's next ? Planned new features and our vision of the
future of Backroll and Plugin.

Q & A

Ask us anything you want about us or Backroll's project.





Creation

2006

Team Size

23 experts on three locations

Practices



Our Values



PASSION



ENGAGEMENT



AUTHENTICITY



EXPERTISE



EXPERTISE

Cloud & Services



Microsoft Power Platform



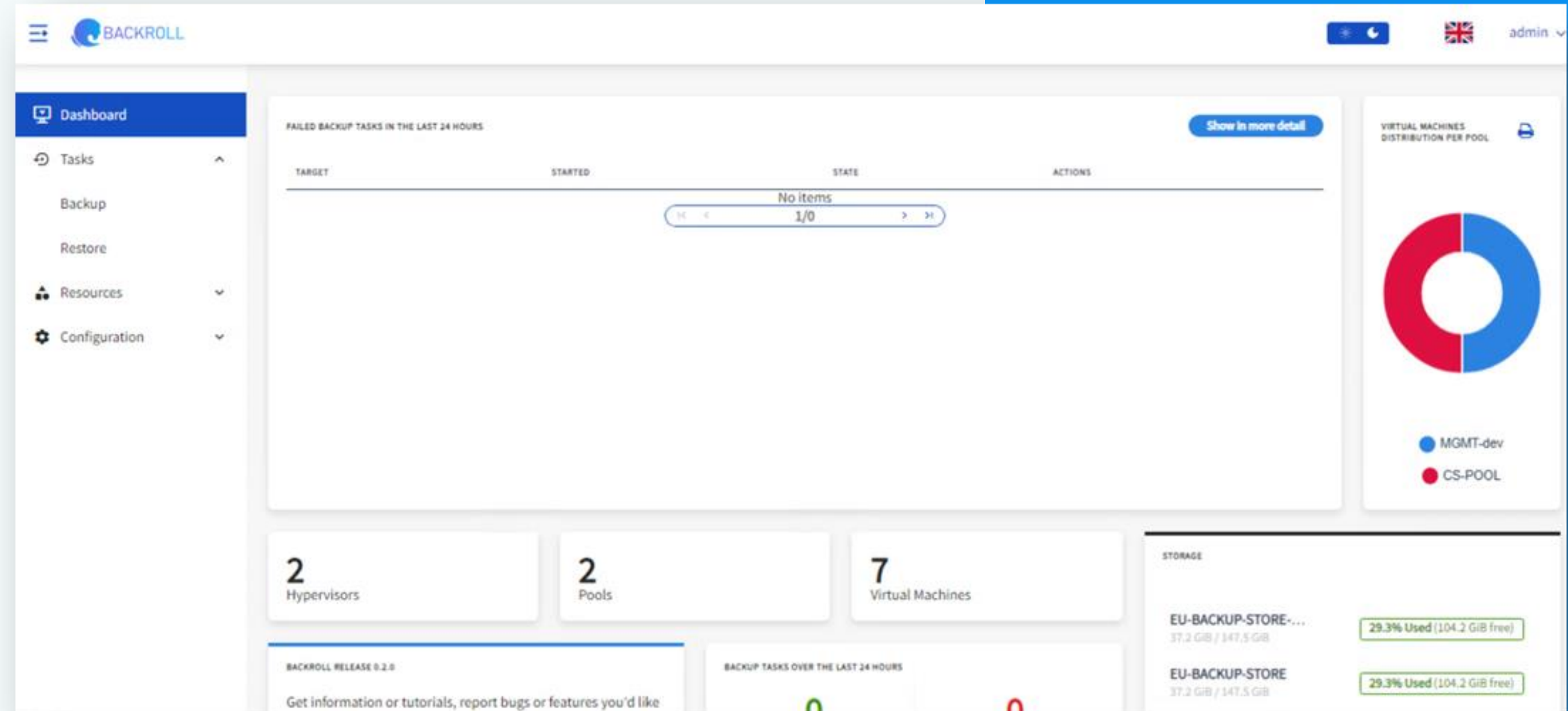
Modern Apps



What's Backroll?

An easy-to-use
KVM Backup Solution

- Modern Web UI
- Restful API
- Containerized application



Backroll key features?

- Instant start of backup or restore task of a VM / Pool
- Backup / restore task scheduling
- Self-management of lock system for each VM, no way to go wrong
- Retention management and automatic cleaning
- Operation history and webhook notification
- Backup of shutdown virtual machine managed by Cloudstack
- Restore of shutdown virtual machine managed by Cloudstack



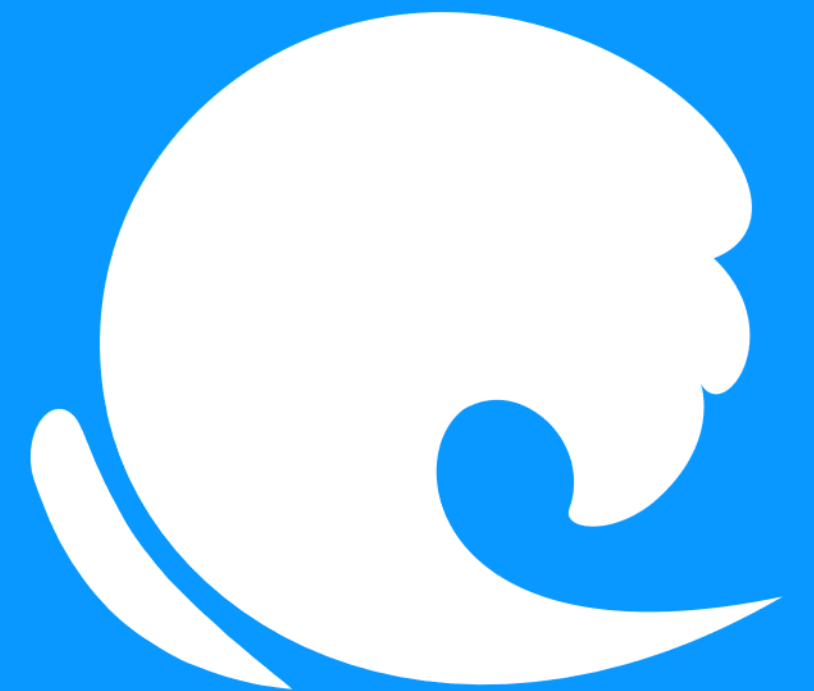
Backroll is also a Plugin for Cloudstack!

Backup and restore plugin for Cloudstack



Cloudstack plugin key features?

- Configuration
- Creation of backup offering
- Trigger a backup
- Trigger a backup of shutdown virtual machine
- Get status of a backup
- Backup delete
- Backup synchronization between Backroll and CS
- Backup metrics retrieval



What's Backroll?



Live guided tour time!

What's new ?

UI update / Task kickstart

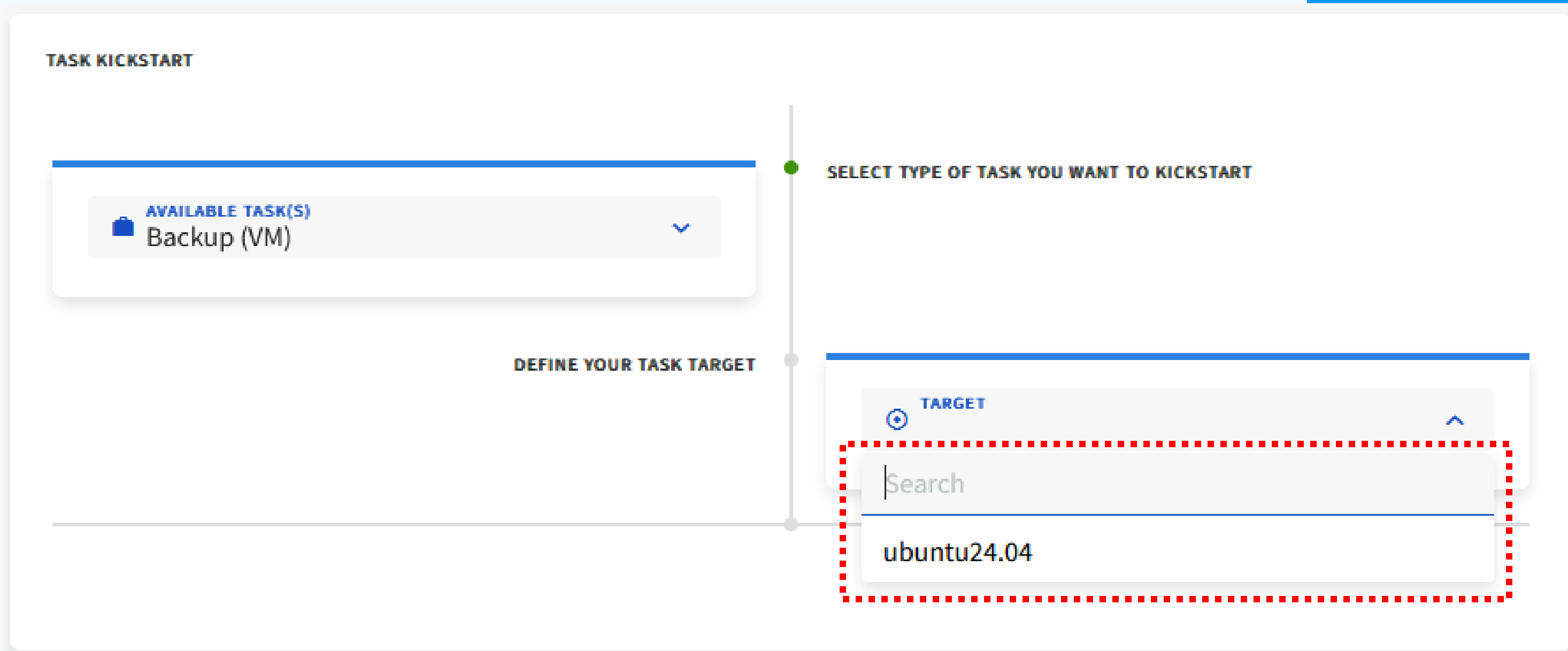
Start backup task

Start restore task

The image displays two screenshots of the 'TASK KICKSTART' interface. Each screenshot is divided into two main sections: 'SELECT TYPE OF TASK YOU WANT TO KICKSTART' and 'DEFINE YOUR TASK TARGET'. In the top screenshot, the task type is 'Backup (VM)' and the target dropdown is labeled 'TARGET'. In the bottom screenshot, the task type is 'Disk Restore & Replace (VM)' and the target dropdown is also labeled 'TARGET'. Red dashed boxes highlight the task type dropdowns in both screenshots. Blue arrows from the 'Start backup task' and 'Start restore task' buttons on the left point to these highlighted dropdowns.

What's new ?

UI update / Task kickstart



What's new ?

UI update /
Task kickstart

The screenshot displays the 'TASK KICKSTART' interface with three main sections:




- TASK KICKSTART**: The overall title of the process.
- AVAILABLE TASK(S)**: A dropdown menu showing 'Disk Restore & Replace (VM)'.
- DEFINE YOUR TASK TARGET**: A section with a 'TARGET' dropdown menu showing 'ubuntu24.04'.
- SELECT BACKUP YOU WANT TO RESTORE**: A section with a 'BACKUP' dropdown menu showing a list of backup entries: 'VDA (28/09/2024 15:46:32)', 'VDA (28/09/2024 15:31:01)', and 'VDA (28/09/2024 15:11:49)'. The first entry is highlighted in blue, and a red dashed box is drawn around the time portion of the first two entries.

What's new ?

UI update / From task to VM

BACKUPS Start backup task

✔ 1
! 1

TARGET	STARTED	RUNTIME	STATE	ACTIONS
ubuntu24.04	17:29:33	00:01:24	SUCCESS	
ubuntu24.04	17:22:00	N/A	FAILURE	 

UBUNTU24.04 RUNNING

Information Backup(s)

KVM DOMAIN ID 1	CPU CORES 2
UUID 17334875-bc8e-439a-9876-fb764938c67c	MEMORY (GIB) 4
HYPERVISOR	
HOST wsl2	POOL Test
TAG -	BACKUP POLICY Test
STORAGE	
VDA /var/lib/libvirt/images/ubuntu24.04.qcow2	
MISCELLANEOUS	

Unlock backup repository
Clean and delete backup repository

What's new ?

UI update / Version number

BACKROLL

developer

VIRTUAL MACHINES

Filter... Look for an exact match

NAME	CPU	MEMORY	HYPERVISOR	TAG(S)	STATE	ACTIONS
UBUNTU24.04	2 Cores	4 GiB	wsl2	-	Shutoff	

1/1

v0.4.0-alpha-1

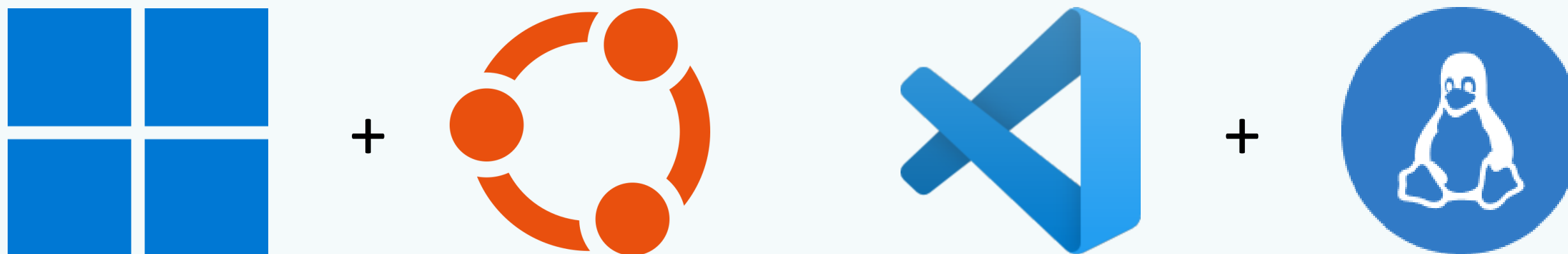
What's new ?



Setup modes : dev – staging – prod

	dev	staging	prod
Sources	<ul style="list-style-type: none">- Local git clone	<ul style="list-style-type: none">- Local git clone	<ul style="list-style-type: none">- Local git clone- Docker Hub
Setup	<ul style="list-style-type: none">- Default values- proxy	<ul style="list-style-type: none">- Your values	<ul style="list-style-type: none">- Your values
Network	<ul style="list-style-type: none">- Docker network- proxy	<ul style="list-style-type: none">- Your network	<ul style="list-style-type: none">- Your network

What's new ?

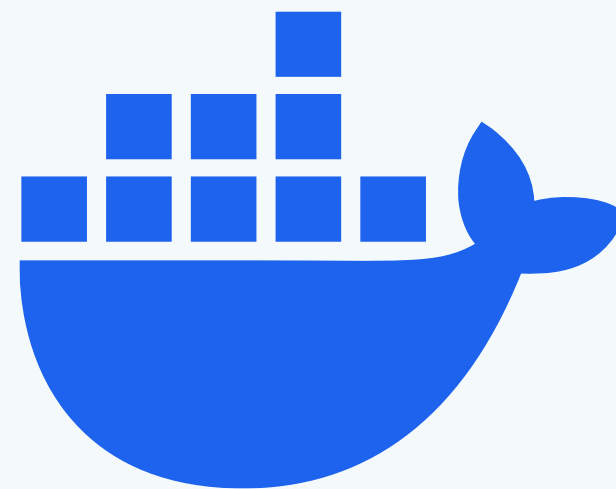
Developement setup / Local KVM hypervisor on Windows



HYPERVISORS							Add new hypervisor
HOSTNAME	POOL	IPADDRESS	SSH CONNECTION	TAGS	STATE	ACTIONS	
wsl2	TEST	host.docker.internal	Configured	_	Reachable	 	

What's new ?

Production setup / Version mismatch protection



```
$ source source-me.sh prod
```

```
You are not on a release commit. Run version mismatch protection?
```

What's new ?

Production setup / Quickstart

Quickstart

Backroll is distributed through git and structured as a Docker Compose project. We have cooked up a quickstart script which clones the repository and runs the commands from the [dedicated compose project README](#).

Use Bash to get and run the quickstart script of the release you target. You will be guided through the setup of the components and some accounts. To use your own OpenID provider or database please prepare your credentials.

After the setup process, the containers will be starting. The default database initialization lasts around one minute. Then open your host address in a web browser to access the Backroll UI.

Latest prerelease or release

```
source <(curl -L https://github.com/DIMSI-IS/BackROLL/releases/download/v0.4.0-alpha-1/quickstart.sh)
```



What's new ?

In depth independent restore

Fixed depth

```
/mnt/mounted_directory/disk_image.qcow2
```

Arbitrary depth

```
/mnt/mounted_directory/path/to/image/disk_image.qcow2  
/var/lib/libvirt/images/ubuntu24.04.qcow2
```

What's new about the Cloudstack Plugin?

Bugs fixed

- Connexion between plugin and Backroll
- Virtual machines offering unassignment

Pull Request

- The Pull request is submitted
- We are working for the PR to be accepted soon!

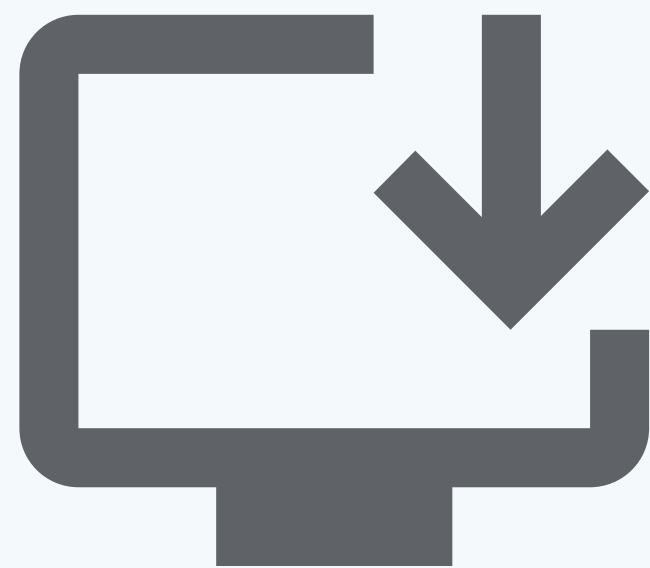
What's new about the Cloudstack Plugin?

Plugin demo !

Roadmap

- Check and display VM's disks availability
- Multiple backup destination for one VM
- Improved Backroll configuration
- Plugin release
- File level restore
- Restore to a specific path

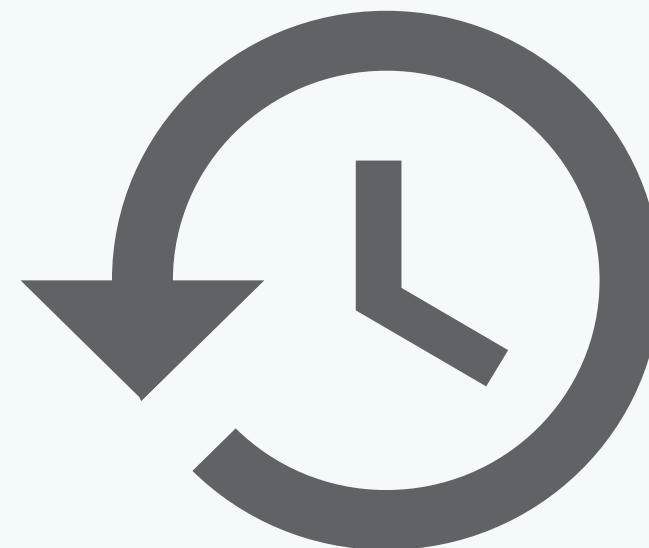
See you at 13:30 in the Workshop Hall !



Install



Configure



Backup & Restore

Q&A

Any question ?

