

meetup.mu the weekend project

By Alex Bissessur

alex.yaml

```
---
apiVersion: v1
kind: Person
metadata:
  name: Alex Bissessur
spec:
  work:
    company: La Sentinelle
    role: Kubernetes Person
    location: Mauritius
  contact:
    website: alexbissessur.dev
    mastodon: moris.social/@AlexB
    github: github.com/xelab04
  interests:
    - Kubernetes
    - Linux
    - Free & Open Source Software
  hobbies:
    - Playing kubectl with Homelab
```

“I do fun things with
Kubernetes.”



Agenda

1. What is meetup.mu
2. Development of meetup.mu
3. How I scrape your community
4. Deployment of meetup.mu
5. CI/CD of meetup.mu

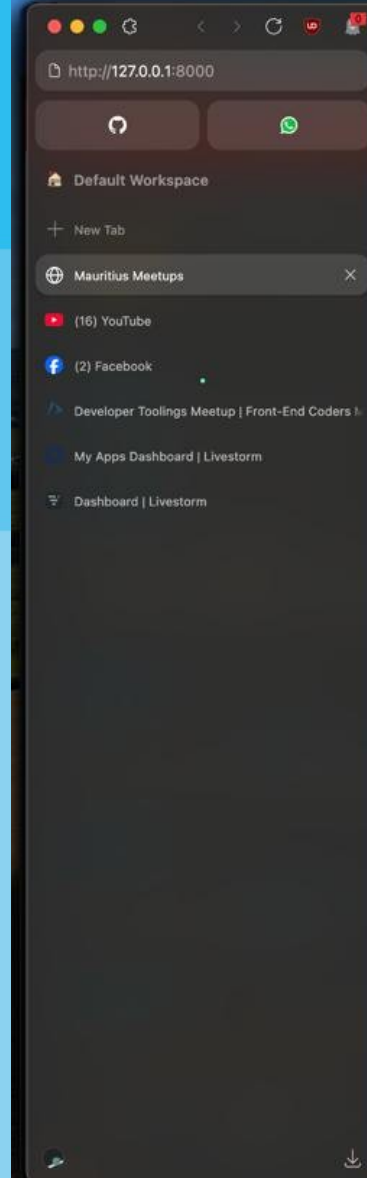
What is Meetup.mu

- Initially an aggregator for all tech meetups.
Born from clashing with frontendmu for the 100th time
- Now an alternative to meetup.com
- Organisers can create events directly on meetup.mu and attendees can RSVP directly

The Meetup.mu project

- PHP + Laravel project with TailwindCSS
 - the same setup as projects at LSL
- Deployed through a FrankenPHP Dockerfile
- Contributed to by around 5 people from different community groups.
- Hosted on my homelab, running on Kubernetes.

Show: Dockerfile



MAURITIUS TECH MEETUPS

ALL THE TECH MEETUPS FROM THE MANY LOCAL COMMUNITY GROUPS, IN ONE PLACE!

OLETA DIBBERT

ELYSSA RUNTE

Enim laborum sunt dicta. Est est et nisi deserunt. Cumque repudiandae libero ex nulla enim enim quia. Officiis natus quia et repudiandae voluptatem ea. Dolores quod id tempore est.

Adipisci qui id impedit distinctio error rem rerum veniam. Vero maxime eum reiciendis magnam illo eum nulla. Sint reprehenderit quia explicabo in.

YOST-DIBBERT

1970-03-06

ARDEN PACOCHA

AIYANA ROBEL

Inventore iusto est omnis. Fugit nihil quis nesciunt. Ipsa fuga exercitationem labore voluptas nobis. Earum id ea cupiditate ad. Voluptas commodi quasi asperiores in ut eveniet error.

Ullam nisi et sunt numquam harum. Ipsam perspiciatis voluptas itaque. Odio pariatur in iure sit sapiente aut nulla dolorem. Ullam fugit iste facilis e...

CONNELLY-GERLACH

1975-09-03

DR. MICHAELA ZIEME

ABDIEL KOELPIN

Et est quas commodi velit tempora sint quia totam. Cumque eos amet a dolorum modi nihil suscipit. Adipisci sunt ducimus unde rerum cum.

Laborum id ut inventore. Temporibus voluptatibus sapiente quia rerum laborum ut. Placeat officia hic enim totam. Porro impedit quia dolorem ullam cons...

TREMBLAY LTD

2003-03-06

DR. CAROL HAMMES

DR. MARIELLE ZEMLAK |



Mauritius Tech Meetups

All the tech meetups from the many local community groups, in one place!

View Past Meetups

HAPPENING TODAY

MSCC

MSCC Monthly Meetup

📍 FRCI

meetup

MAY 17, 2025

LARAVELMORIS

Scraping Community Groups

and my hate for meetup.com

- Frontend.mu has open data on github for all their meetups.
- I added an API to Cloud Native MU's website
- MSCC, PYMUG, Laravel Moris, NUGM are on meetup.com (which doesn't like open data)

**Show: FrontendMU &
CNMU data**

Scraping ~~Community Groups~~ Meetup.com

- Meetup.com provides an ical file to import into your calendar
- Python script to download and parse ical
- Extract data and send to database

```
BEGIN:VCALENDAR
VERSION:2.0
PRODID:-//Meetup//Meetup Calendar 1.0//EN
CALSCALE:GREGORIAN
METHOD:PUBLISH
NAME:Mauritius Software Craftsmanship Community
X-WR-CALNAME:Mauritius Software Craftsmanship Community
BEGIN:VTIMEZONE
TZID:Indian/Mauritius
TZURL:http://tzurl.org/zoneinfo-outlook/Indian/Mauritius
X-LIC-LOCATION:Indian/Mauritius
BEGIN:STANDARD
TZOFFSETFROM:+0400
TZOFFSETTO:+0400
TZNAME:+04
DTSTART:19700101T000000
END:STANDARD
END:VTIMEZONE
BEGIN:VEVENT
UID:event_304373239@meetup.com
SEQUENCE:1
DTSTAMP:20250510T101239Z
DTSTART;TZID=Indian/Mauritius:20250510T100000
DTEND;TZID=Indian/Mauritius:20250510T160000
SUMMARY:MSCC Monthly Meetup
DESCRIPTION:Mauritius Software Craftsmanship Community\nThe MSCC is back w
ith its physical Monthly Meetups! Join us every 2nd Saturday of the month
to discuss\, learn\, and network!\n\nEach monthly meetup will have a theme
and anyone interested in presenting is welcome to send their proposal [he
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MoLeBR340wPMP5qVgnGA/viewform?usp=sharing).\n\nFor **May\,** the meetup wi
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are featured for this meetup:\n\n* The Future of AI on Microsoft Azure - J
ochen Kirstätter\n* Unlocking Secure Access with Azure Managed Identity:
```

The ical file
holds all (?) the
information I
need.

- Date
- Registration URL

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VERSION:2.0
PRODID:-//Meetup//Meetup Calendar 1.0//EN
CALSCALE:GREGORIAN
METHOD:PUBLISH
NAME:Mauritius Software Craftsmanship Community
X-WR-CALNAME:Mauritius Software Craftsmanship Community
BEGIN:VTIMEZONE
TZID:Indian/Mauritius
TZURL:http://tzurl.org/zoneinfo-outlook/Indian/Mauritius
X-LIC-LOCATION:Indian/Mauritius
BEGIN:STANDARD
TZOFFSETFROM:+0400
TZOFFSETTO:+0400
TZNAME:+04
DTSTART:19700101T000000
END:STANDARD
END:VTIMEZONE
BEGIN:VEVENT
UID:event_304373239@meetup.com
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```

MISSING SOMETHING

The ical file
holds all (?) the
information I
need.

- Date
- Registration
URL
- ...?

Finding the Location

- Location is not present in the ical file
- I am too lazy to somehow parse the description
- Instead, ask my digital slave (AI)
- Introducing: hosting ollama on Kubernetes
 - helm chart provided for easy install
 - feed description into AI and get the location back

What's Helm?

- Helm is a “package manager” for Kubernetes
- Contains templates for your deployment
- Contains all components under one “parcel”
 - service, deployment, etc etc
- Used to easily distribute applications
- Ollama has a helm “package” to easily deploy AI models

Deploying Meetup.mu

- Run on Kubernetes on my homelab
- Components:
 - Deployment – main pods for the Laravel app
 - Services – expose app and does networking
 - PVCs – provides persistent storage for app/db
 - Configmap – for configuration, like .env
 - Secret – sensitive configuration, like db creds
- Applications:
 - Laravel app
 - Database
 - Redis

Show: meetup.mu manifests

Deploying Meetup.mu

- Manifests are usually deployed with `kubectl apply -f *`
- Manifests on GitHub – you can run `meetup.mu` yourself
- Manifests can also be deployed with ArgoCD

ArgoCD

- The principle of GitOps – Git is your source of truth
Other *Ops – ClickOps & ManualOps
- Allows 100% reproducible infrastructure
- No more changes through “kubectl apply -f”
- everything through Git then synced

Show: ArgoCD UI

Deploying Meetup.mu

- Meetup.mu exists as a Container Image
- Container image deployed in pods as part of a deployment
- Every update to meetup.mu:
 - build and push new version
 - update version in Kubernetes manifests
- I hate manual labour

Github Actions for CI

- On merge/push to main, trigger GH action
- Action checks version number from version.txt
- Build image with proper tag
- Push image to my Docker registry
- ArgoCD notices the change in version, deploys a new replicaset with 0 downtime

**Show: make change to
meetup.mu**

Thank You!

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