



# **Living with single-tenant and multi-tenant architectures**

Lessons learned, observations and reflections.

👋 I'm Marcin

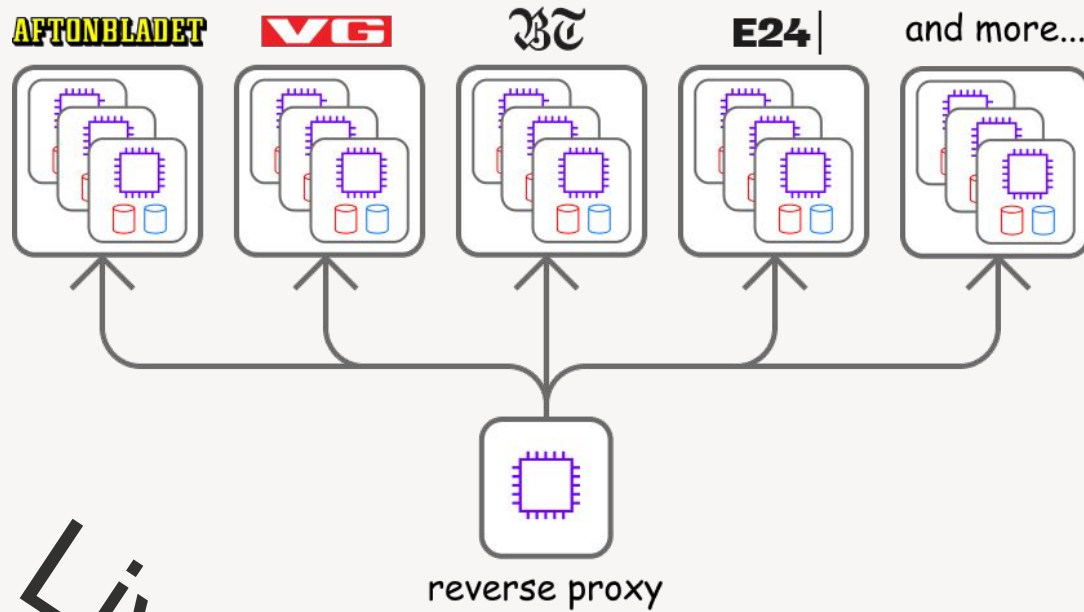
# SPP CNP Interact

- Live 🚓
- Comments 📝 (and reviews ★)



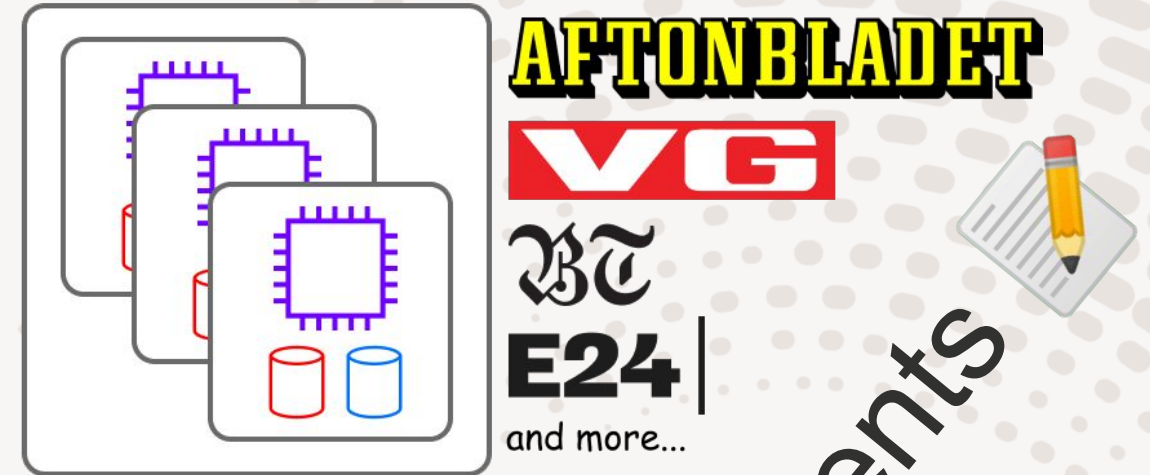
Schibsted

# single-tenant



Live 

# multi-tenant



Comments

Schibsted

# single-tenant



# multi-tenant





# What differentiate?



# Data isolation

- Comments hacked

```
$ curl --request POST \  
  --url https://host/publications/e24/comments/3159602/votes \  
  --header 'Authorization: <user-logged-in-e24-newsroom>'
```

- Passing tenant identifier everywhere

```
const votesCastTodayCount = user  
  ? await voteService.getUserVoteCountForToday(user.id, publicationId)  
  : 0;
```

# Tooling changes

1. From Sumo Logic to Datadog as an observability solution.
2. From an in-house tool for provisioning to Terraform.
3. From one Redis provider to another.
4. From Heroku to Convex as a hosting solution.

# Resilience



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note: automatic reverts

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# Adding new tenant / newsroom

- Application and infrastructure configuration
- Polaris 💰



note: centralize configuration

# Canary deployments (big features)

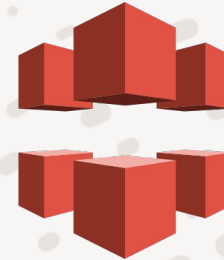
- Convoy test
- Non-backward compatible feature 🤖

# Business intelligence



# Reverse proxy

# fastly



```
if (path.contains('VG')) {  
  console.log('redirect to Verdens Gang');  
} else if (path.contains('AB')) {  
  console.log('redirect to Aftenbladet');  
} else {  
  throw Error({ code: 404 });  
}
```

# My recommendations

- multi-tenant architecture (less ops work)
- namespaces in database (data isolation)
- centralize configuration
- Unleash for feature toggles (A/B testing)