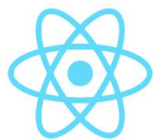


# Serverless não é o caminho

Rodrigo Nonose

# Serverless não é o caminho

Rodrigo Nonose



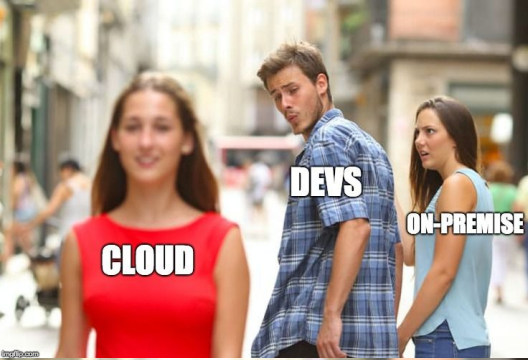
React



elixir

[jobs.emcasa.com](https://jobs.emcasa.com)







# Custos





Operação



Escalabilidade





Produtividade

Falsa dicotomia





Nomenclatura

# Abstração

**IMPERATIVE**

---

**PROCEDURAL**

---

**OBJECT-ORIENTED**

---

**FUNCTIONAL**



**DISTRIBUTE**



imgflip.com

Distribuição

Mensagens



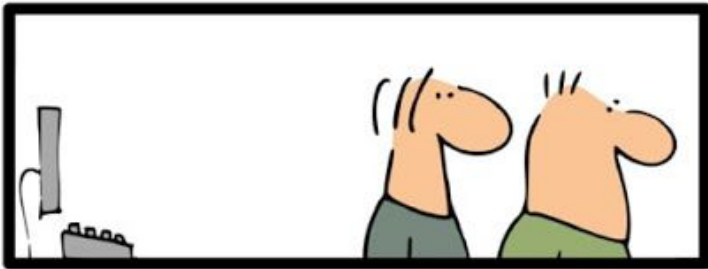


Limite de recursos



# Monitoramento





geek & poke



DON'T  
LOOK  
AT THE  
SCREEN  
!!!!

HOW TO DEBUG HEISENBUGS

# Debugging

Segurança

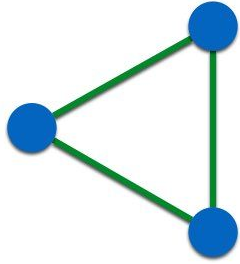




COLONIAL AND EARLY AMERICAN DOORWAYS · NEWPORT, RHODE ISLAND

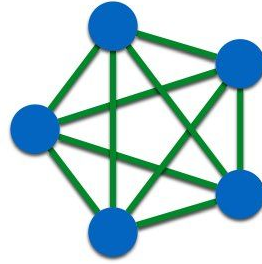
# Complexidade arquitetural

3 nodes



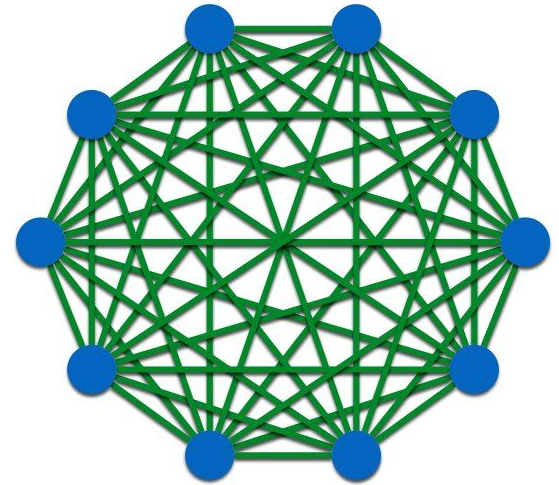
3 links

5 nodes



10 links

10 nodes



45 links

Tools



Security



Framework



Hosted

Installable

Platform



Cloud Native Landscape



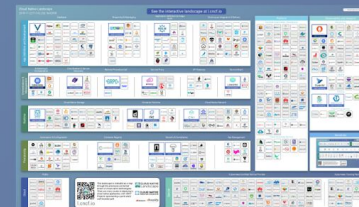
[s.cncf.io](https://s.cncf.io)

Serverless computing refers to a new model of cloud native computing, enabled by architectures that do not require server management to build and run applications. This landscape illustrates a finer-grained deployment model where applications, bundled as one or more functions, are uploaded to a platform and then executed, scaled, and billed in response to the exact demand needed at the moment

 **CLOUD NATIVE Landscape**

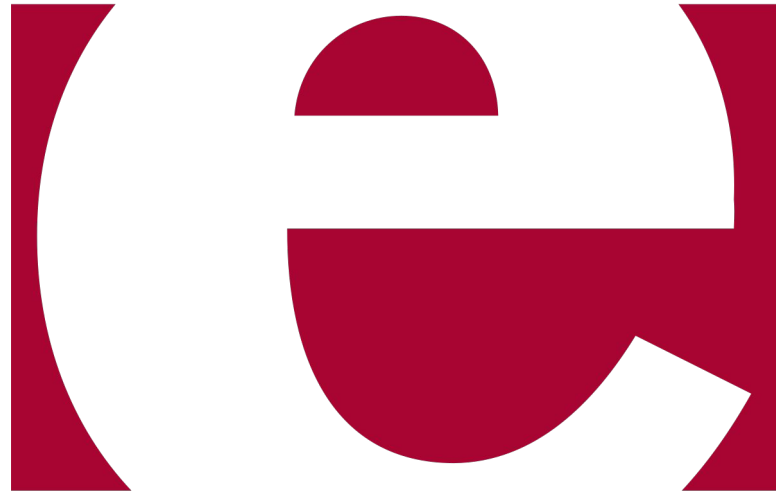
 **CLOUD NATIVE COMPUTING FOUNDATION**

 **Redpoint**





By Frits Ahlefeldt



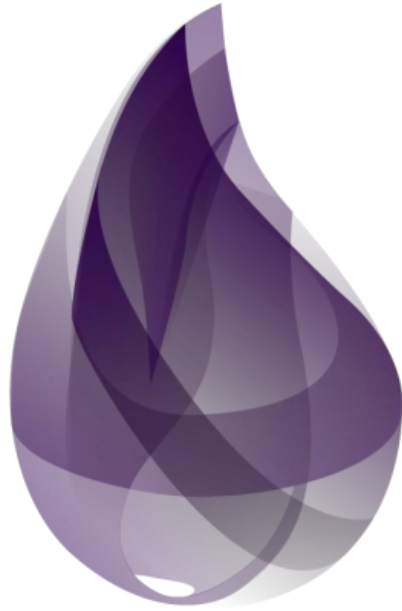
**ERLANG**

1986





**ERLANG**



2011



# Elixir

- Programação Funcional
- Syntaxe Top
- Imutabilidade
- Protocolos (Extensibilidade)
- Macros (DSLs)

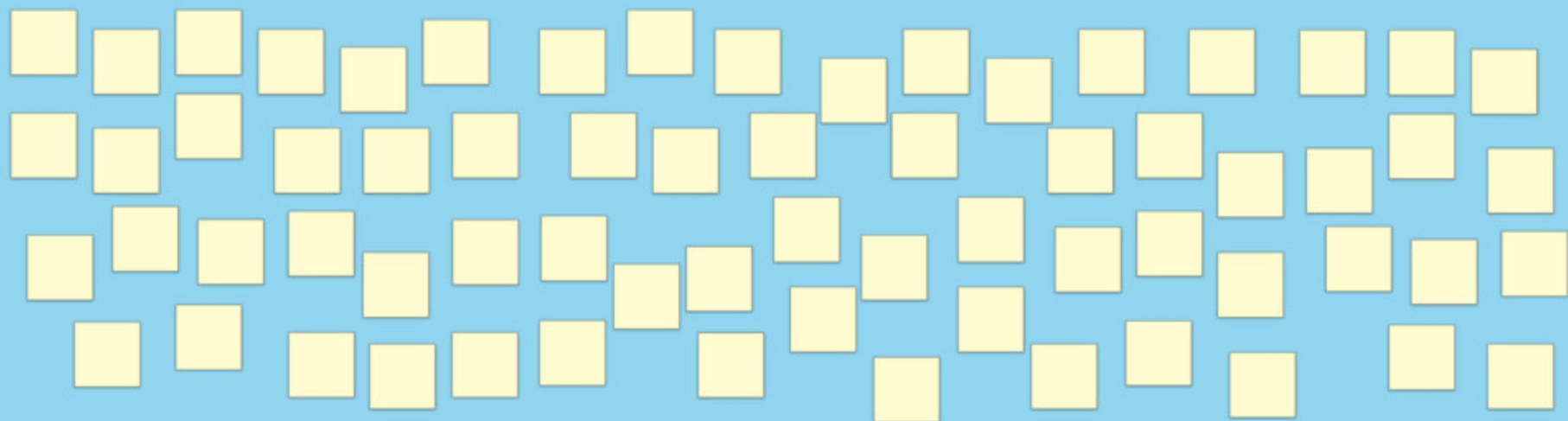
## Elixir

```
8   def sluggify(string) do
9     string
10    |> String.split(" ")
11    |> Enum.map(&String.normalize(&1, :nfd))
12    |> Enum.map(&String.replace(&1, ~r/\W/u, ""))
13    |> Enum.join("-")
14    |> String.downcase()
15  end
```

# Elixir

- Alta disponibilidade
- Concorrência / Paralelismo
- Tolerância a falhas

# BEAM



scheduler

scheduler

scheduler

scheduler

CPU

CPU

CPU

CPU

# Elixir

- Alta disponibilidade
- Concorrência / Paralelismo
- Tolerância a falhas



Conclusão

Obrigado

 rhnonose  
 backendwizard



# Links

<https://www.martinfowler.com/articles/serverless.html>

<https://serverless.com/>

[https://en.wikipedia.org/wiki/Serverless\\_computing](https://en.wikipedia.org/wiki/Serverless_computing)

<https://medium.com/@MarutiTech/what-is-serverless-architecture-what-are-its-criticisms-and-drawbacks-928659f9899a>

<https://hackernoon.com/the-serverless-series-what-is-serverless-d651fbacf3f4>

<https://serverlesscode.com/post/aws-lambda-limitations/>

<https://dzone.com/articles/understanding-serverless-architecture-advantages-a>

<https://en.wikipedia.org/wiki/Procrustes>

<https://fanout.io/>

<https://aws.amazon.com/iot/>

<https://medium.com/@vu4848/serverless-pain-ab5547d6b122>

<https://www.sandimetz.com/blog/2016/1/20/the-wrong-abstraction>

<https://www.youtube.com/watch?v=Y6B3Eqlj9Fw>

<https://readwrite.com/2012/10/15/why-the-future-of-software-and-apps-is-serverless/>

<https://stevemccconnell.com/articles/less-is-more-jumpstarting-productivity-with-small-teams/>