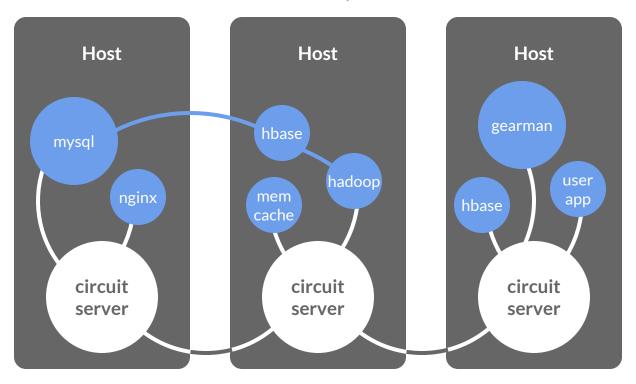
Building clouds with Circuit & Escher

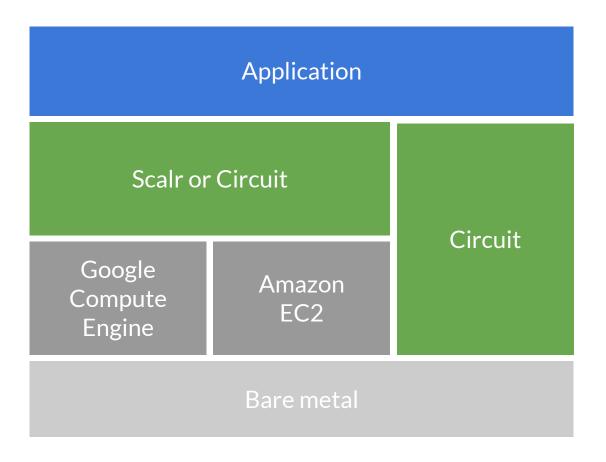
Petar Maymounkov gocircuit.org escher.io 2015

Circuit = daemon + cloud API

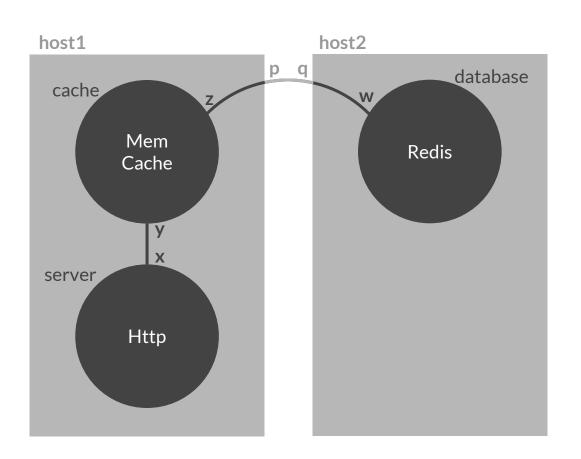
Light alternative to cloud management tools (Goole, Amazon, Scalr)



Comparison to other systems



Escher = formal cloud state syntax



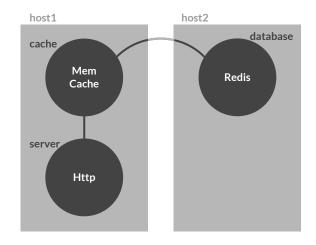
```
host1 {
  cache MemCache
  server Http
  cache:y = server:x
  cache:z = :p
host2 {
  database Redis
  database:w = :q
host1:p = host2:q
```

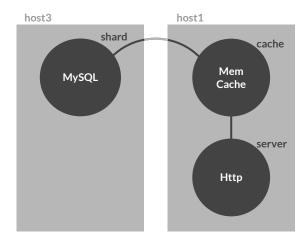
Formal circuit differences

current state

desired state

necessary change





3-step workflow tool

Any backend (Circuit, Amazon, Google)

```
cloud sense > current.circuit

cloud diff desired.circuit current.circuit > diff.circuit

cloud materialize diff.circuit
```

Compiler for composing circuits

