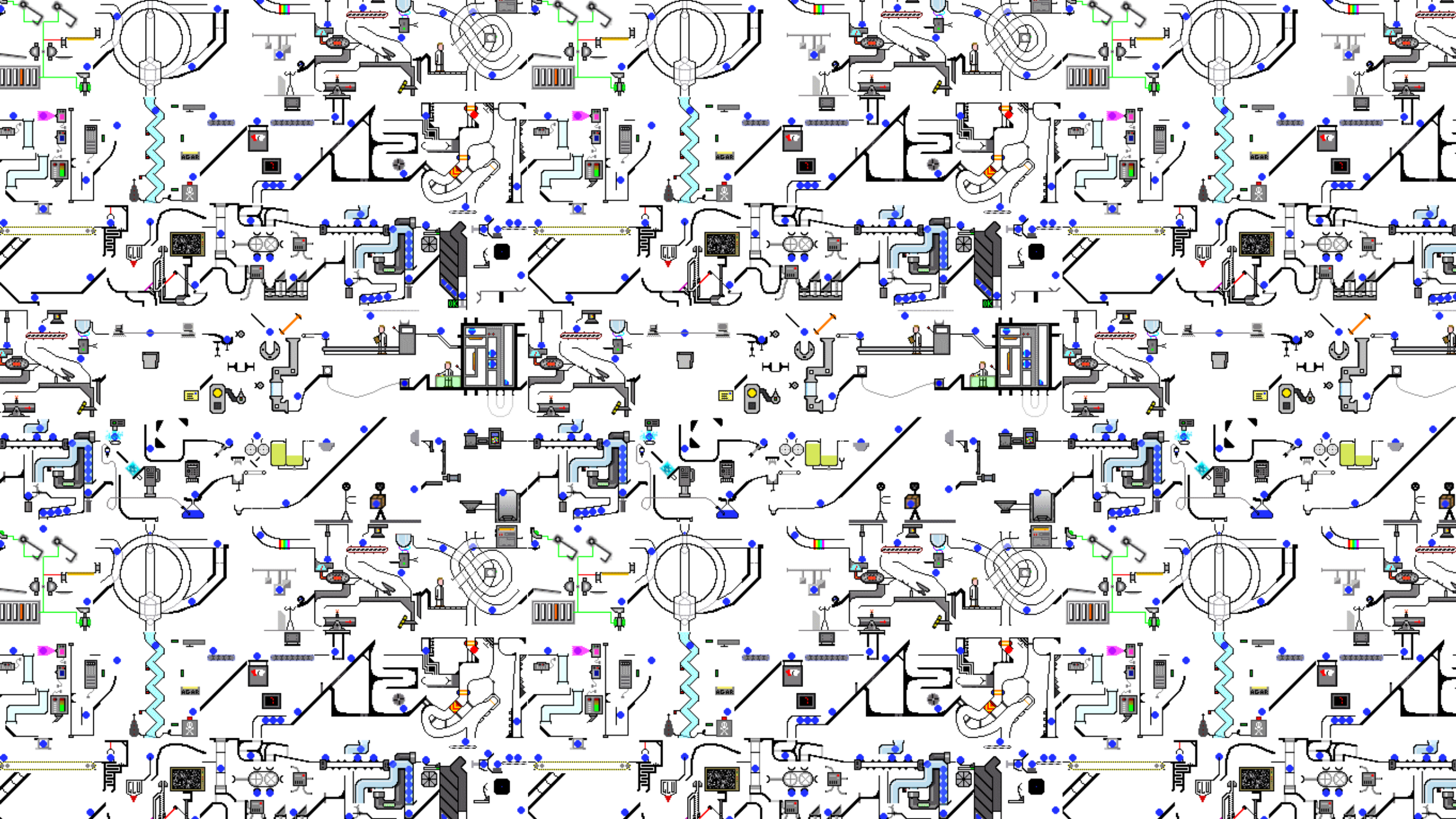


# Next-generation infrastructure as code with Inmanta

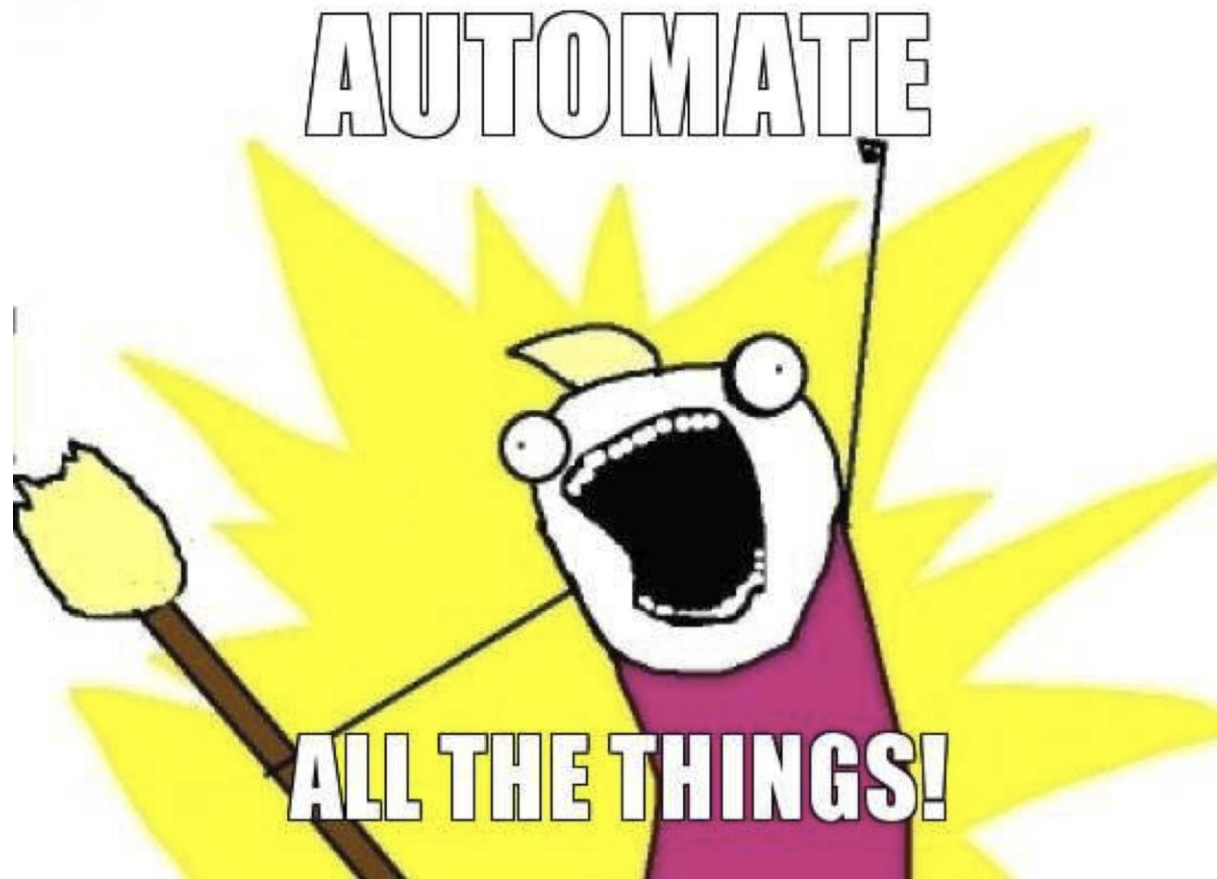
Bart Vanbrabant, CTO Inmanta

# Complexity grows

- Distributed is the default
- Server, container and API (serverless?)
- Rate of change increases



# Automation



# Infrastructure as Code

- Programmable infrastructure
  - Configuration management
  - Orchestration
- Automate everything
- Look at software engineering:
  - Version control
  - Testing
  - Small batches
  - ...

# Imperative vs declarative

# Desired state

# State of practice

- Decompose problem
  - Per host
  - Per resource to manage
  - Grouping



# Complex management

# Software engineering

# Inmanta

# Object oriented

# Interfaces

```
entity Application:  
    number port  
    string hostname  
end
```

```
entity Loadbalancer:  
    number port  
    string hostname  
end
```

# Navigate relationships

# Composition

# Modularity



# Orchestration