

```

dF      @88>      x+=:z      S
'88bu.  %8P      z`      ^%      :8
'*88888bu  +      +      <k      .88
^"*8888N  +      +      +      :888000
+udR88N  +      +      +      -*8888888
<888'888k  b2WE "888L  '888€`  x88:  `)\8b.  8888
9888 'Y"  888€ 888€ 888€ 8888N=*8888 8888
9888      888€ 888€ 888€ %8" R88 8888
9888      888€ 888F 888€ @8Wou 9% .8888Lu=
?8888u+./ +888N.+888 888& +888888P` ^%888*
"8888P'  `""888*"" R888" ` ^"F 'Y"
"p'      ""      ""      ""

```

cdist cloud configuration

configuration as a service

Who's that guy?



Nico Schottelius - Linux Erfa - 20140519

Configuration

A configuration is set of parameters with values that describes a target state.

Configuration Examples

- **Virtual machine** web01 runs on host42
- **Backup** for web01 contains /home
- **User** “app” exists on web01
- **Application Server** Ruby on Rails is installed on web01
- **Load Balancing** is **configured** for web01 .. web20 Servers

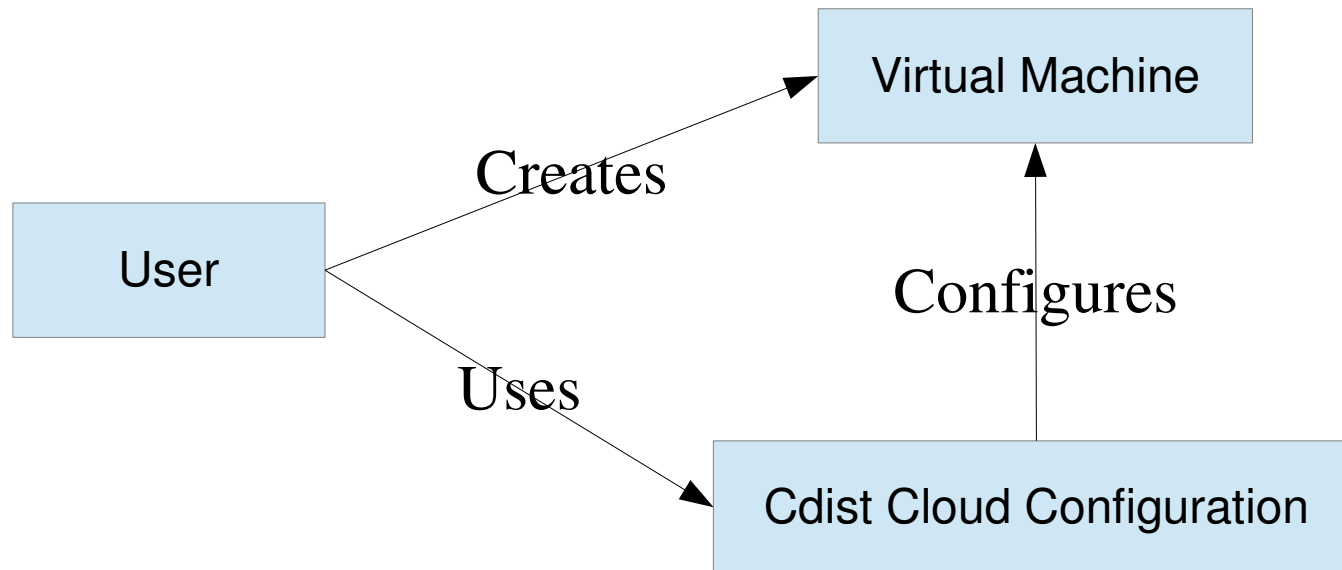
History

- Manual Configurations (~1960)
- Configuration Management (~1993)
- Configuration as a Service (CaaS) (2014)

CaaS (2014)

Configuration as a Service (CaaS)

cdi.st cloud configuration



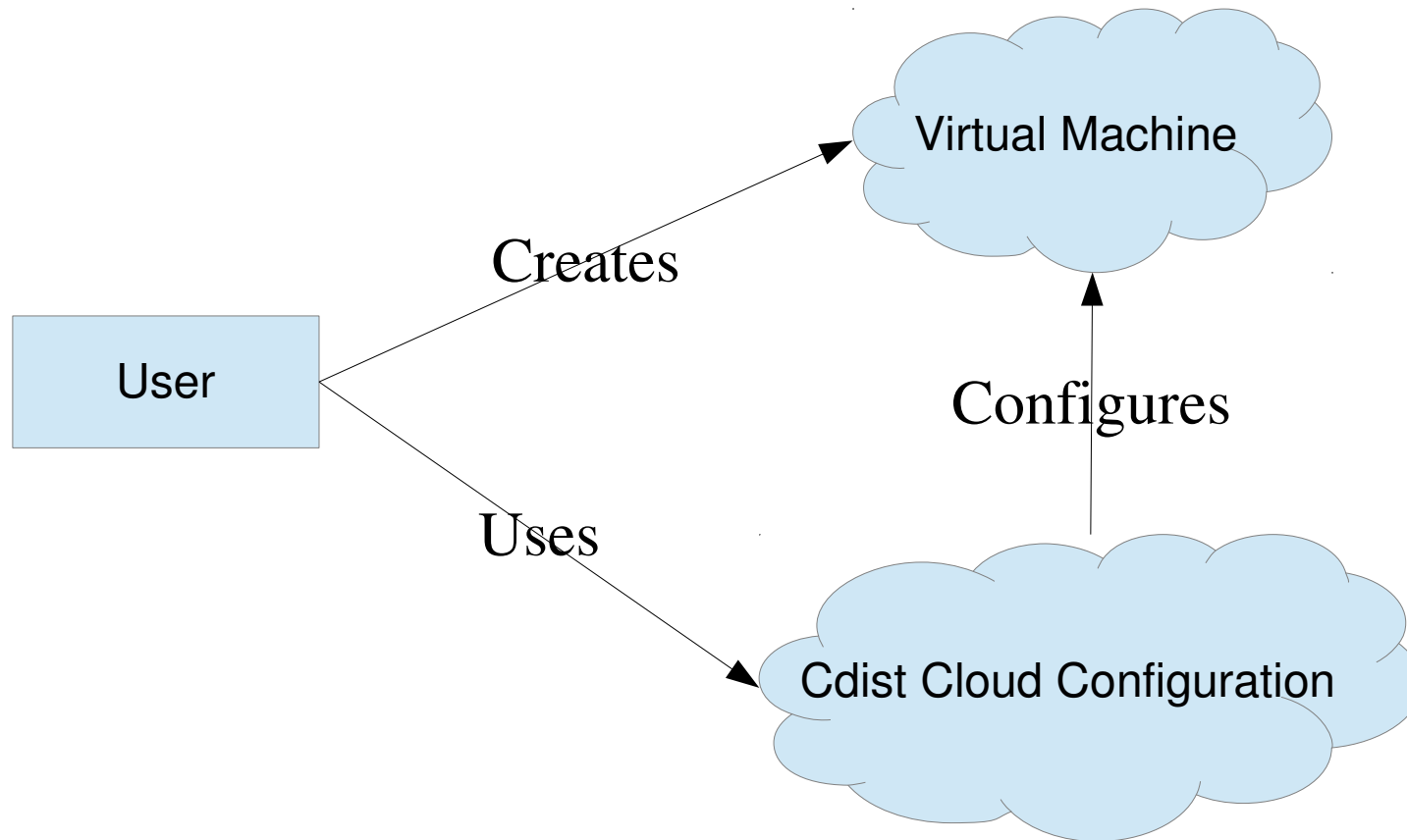
Motivation

- Enable users to configure their systems
- Reduce complexity
- Focus on core competences
- Cloud Services are accepted

Enable Users

No System Engineer required

Enable Users



Reduce Complexity

Past

- Users depend on System Engineer
- Lot of knowledge required
- Investment into development

CaaS

- User can configure themselves
- User defines target state
- Reuse existing configurations

cdi.st preview

```
          .x+=:.*
          z` ^%
          .<k
          .88
          ;888ooo
          @8Ned8"
          @^%8888" -*8888888
          .088u
          x88: `>8b. 8888
          888€ 888€ 888€ 8888N=*8888 8888
          888€ 888€ 888€ %8" 888 8888
          888€ 888F 888€ @8Wou 9% .8888Lu=
          ?8888u../.888N..888 888% .888888P` ^%888*
          "8888P"/ `888*" 8888" ` ^"F 'Y"
          "p' "" "" ""
```

Welcome to cdi.st cloud configuration.

cdi.st will totally change your experience of configuring your UNIX/Linux servers. No more hassle with configuration files, we configure your systems.

You can try out cdi.st with 2 configuration runs and once you want more, you can buy as many runs as you want.

cdi.st preview

Sign in

Email

dummy@cdi.st

Password

••••••••

Remember me

Sign in

[Sign up](#)

[Forgot your password?](#)

[Didn't receive confirmation instructions?](#)

[Didn't receive unlock instructions?](#)

cdi.st preview

Host successfully updated

Host List

Configure

Host

Configuration



Test Computer

Edit

Delete

Edit Checked

1 configuration run needed

Configuration Backend

```
% cdist config -v localhost
```

```
INFO: localhost: Running global explorers
```

```
INFO: localhost: Running initial manifest
```

```
/home/users/nico/.tmp/tmp89xo__/_out/conf/manifest/init
```

```
INFO: localhost: Running object manifests and type explorers
```

```
INFO: localhost: Running manifest and explorers for __file/tmp/cdist-rocks
```

```
INFO: localhost: Running manifest and explorers for __speech/tmp/speech
```

```
INFO: localhost: Running manifest and explorers for __file/tmp/speech
```

```
INFO: localhost: Generating and executing code
```

```
INFO: Resolving dependencies...
```

```
INFO: localhost: Generating and executing code for __file/tmp/cdist-rocks
```

```
INFO: localhost: Generating and executing code for __file/tmp/speech
```

```
INFO: localhost: Generating and executing code for __speech/tmp/speech
```

```
INFO: localhost: Finished successful run in 4.90235710144043 seconds
```

```
INFO: Total processing time for 1 host(s): 5.402170896530151
```

```
% cat /tmp/speech
```

```
The speech is green today!
```

Business Case

Everyone needs configurations.

Services

- Configuration as a Service (cdi.st)
- Development of new configurations (cdi.st)
- Design of Linux/Unix Infrastructures
- Consulting

Software Stack

- Configuration Management **cdist**
 - FOSS
 - OpenSSH, Python 3, Shell
- Cloud Service **cdi.st**
 - Closed source during market introduction
- **No vendor lockin!**

Market Positioning

System Engineer	Make	In House
DevOps	Make/Buy	Contractor
User	Buy	Cloud

Advantages

- Agile workflow
- Self Service
- Less knowledge required
- Less costs
 - No System Engineer
 - No Development
 - Reduced complexity

Questions?

- cdi.st@ungleich.ch
- Twitter: @ungleich
- <http://www.ungleich.ch>