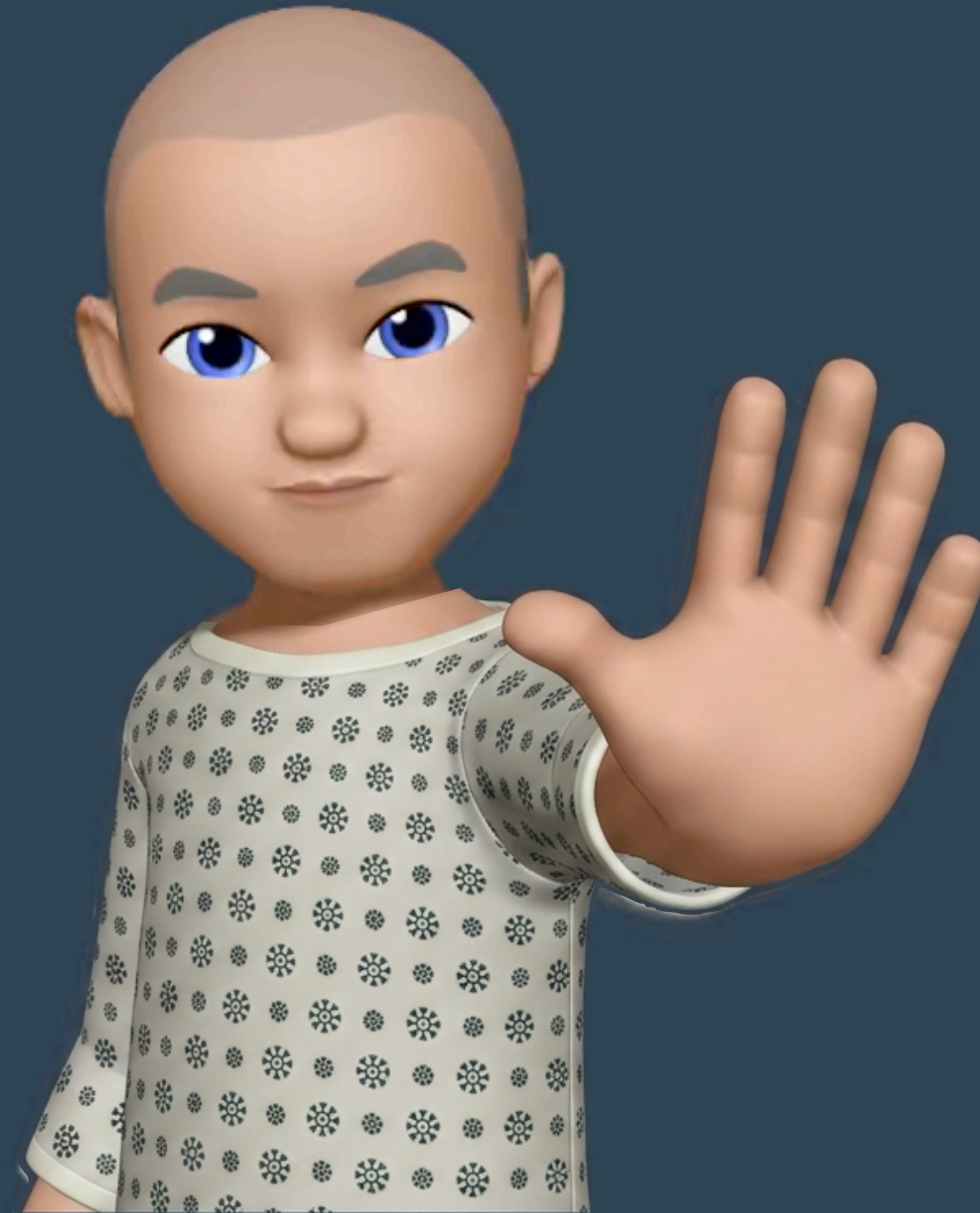


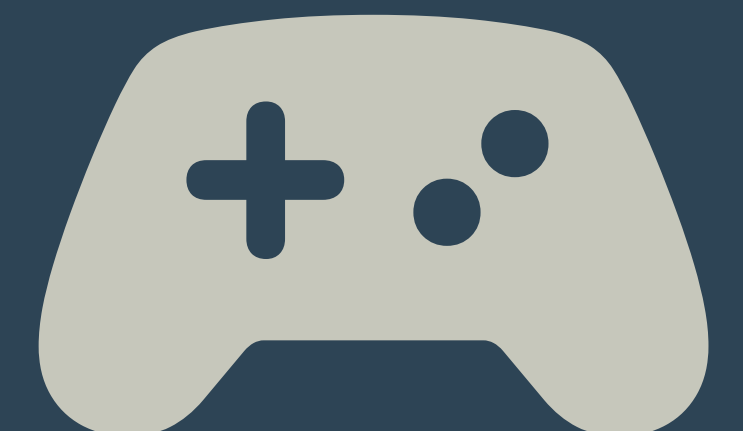
STRANGER -STRINGS-

NOSTALGIA OR DECLARATIVE DEVICE MANAGEMENT



Ulrik Aabye-Hansen

Partner, Consultant & **Entertrainer**



Agenda

INTRODUCTION

THE LEGACY MDM FRAMEWORK

THE NEW UPSIDE DOWN

NOSTALGIA OR DEMO

NEXT SEASON

Rich Trouton : MDM and DDM 101

derflounder.wordpress.com

Der Flounder
Seldom updated, occasionally insightful.

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Session videos from Jamf Nation User Conference 2025 now available

November 11, 2025 rtrouton

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Leave a comment

Jamf has posted the session videos for from Jamf Nation User Conference 2025, including the video for my "MDM and DDM 101" session.

For those interested, all of the the JNUC 2025 session videos are available on YouTube, though it doesn't appear that there's a dedicated YouTube playlist at this point. For convenience, I've linked my session here.

MDM and DDM 101: Understanding #Apple Mobile

Jamf

1

TRUST

Watch on YouTube

Watch on YouTube

RSS feed

November 2025

M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

<< Oct Dec >>

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CHAPTER ONE

THE LEGACY MDM FRAMEWORK

MIKE'S BASEMENT



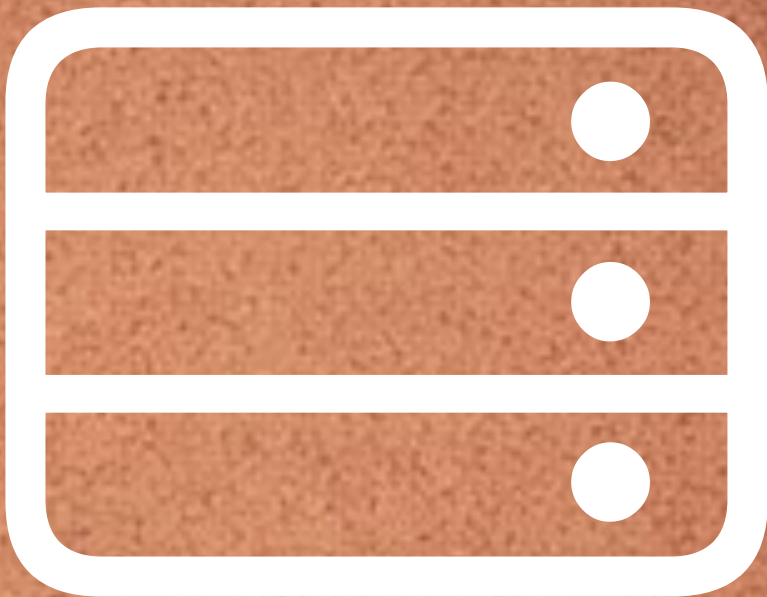




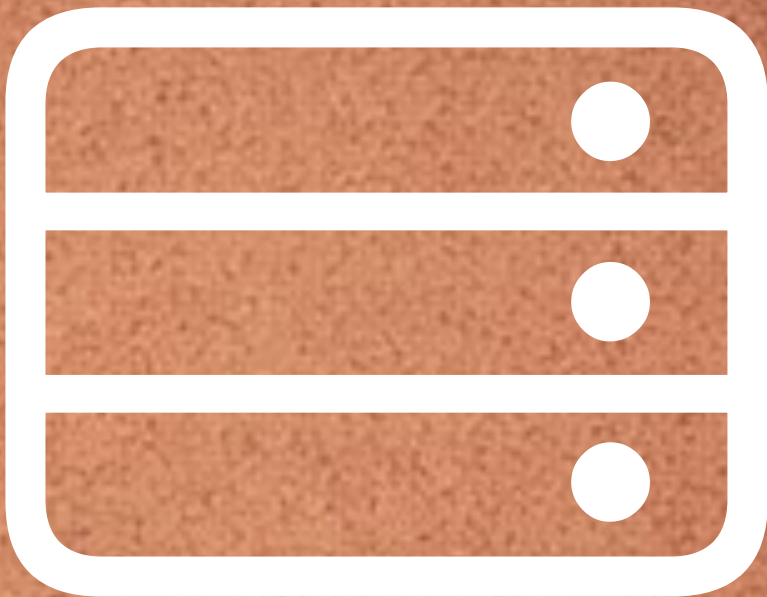
LEGACY MDM
EXPLAINED

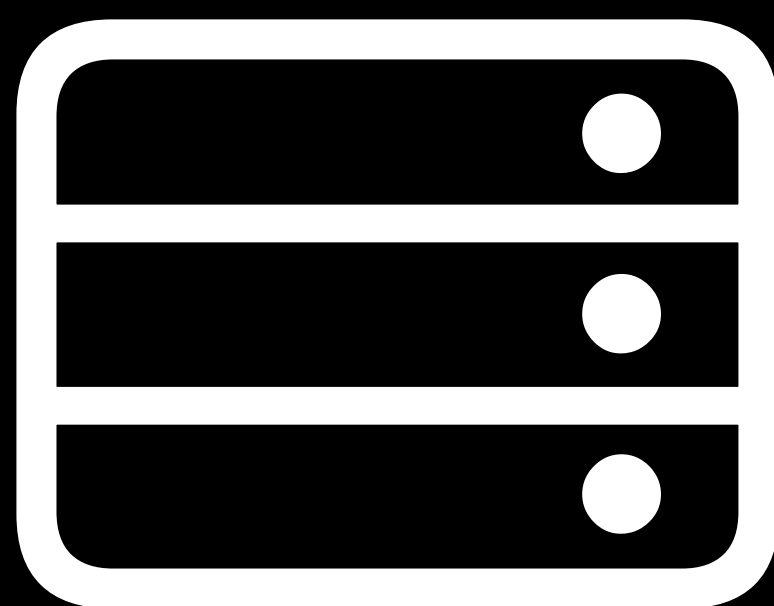


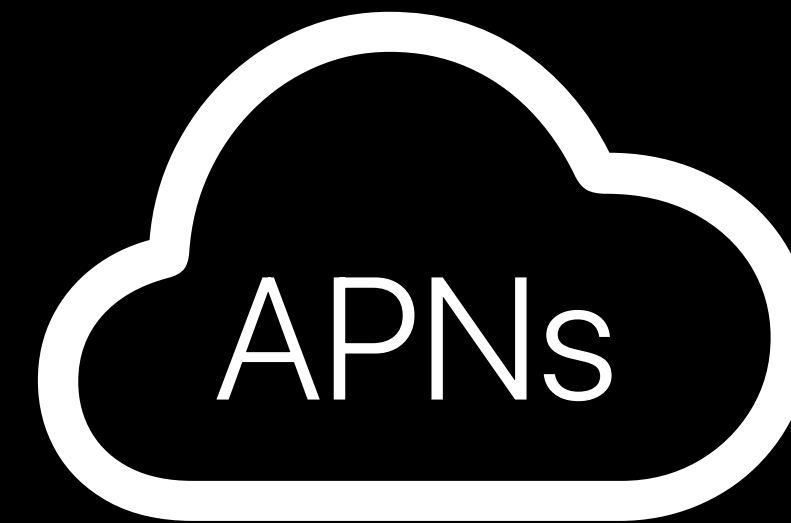
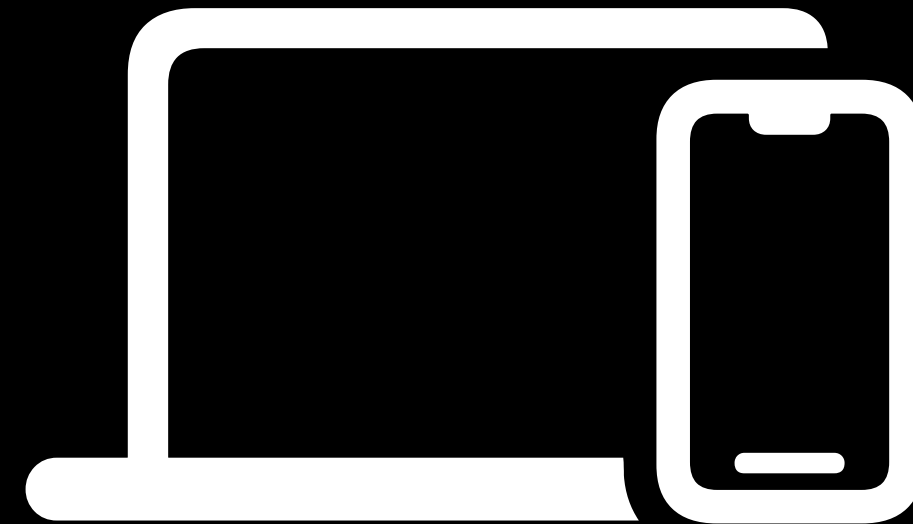
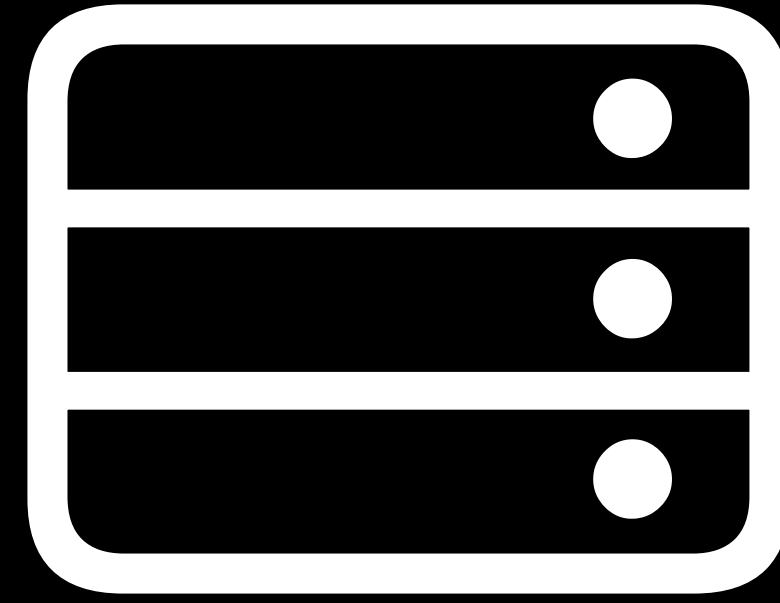
LEGACY MDM
EXPLAINED

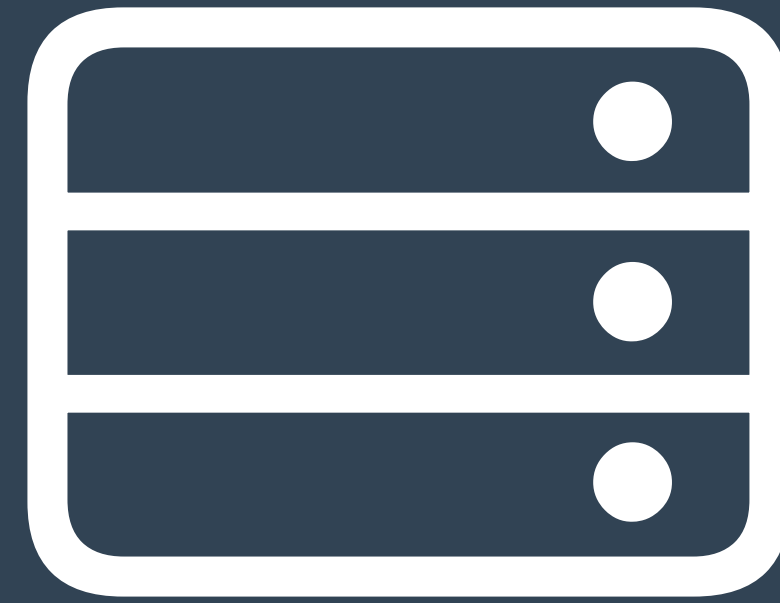


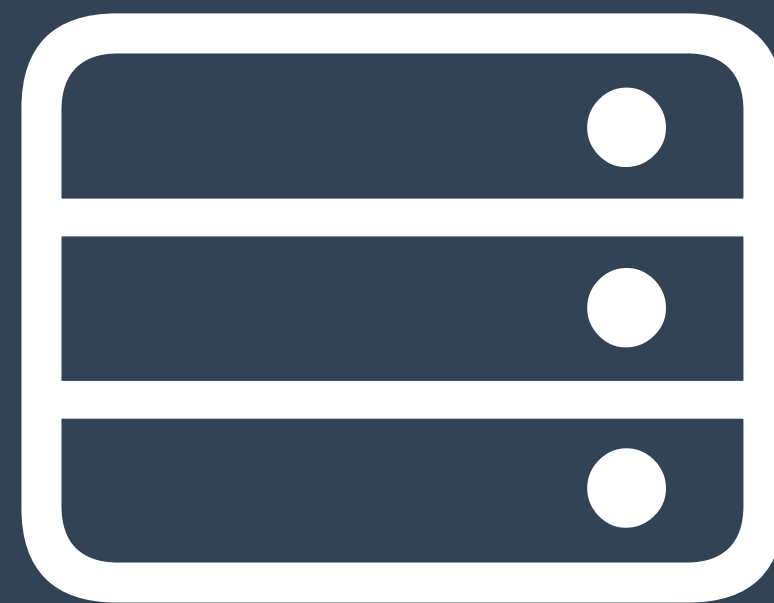
LEGACY MDM
EXPLAINED





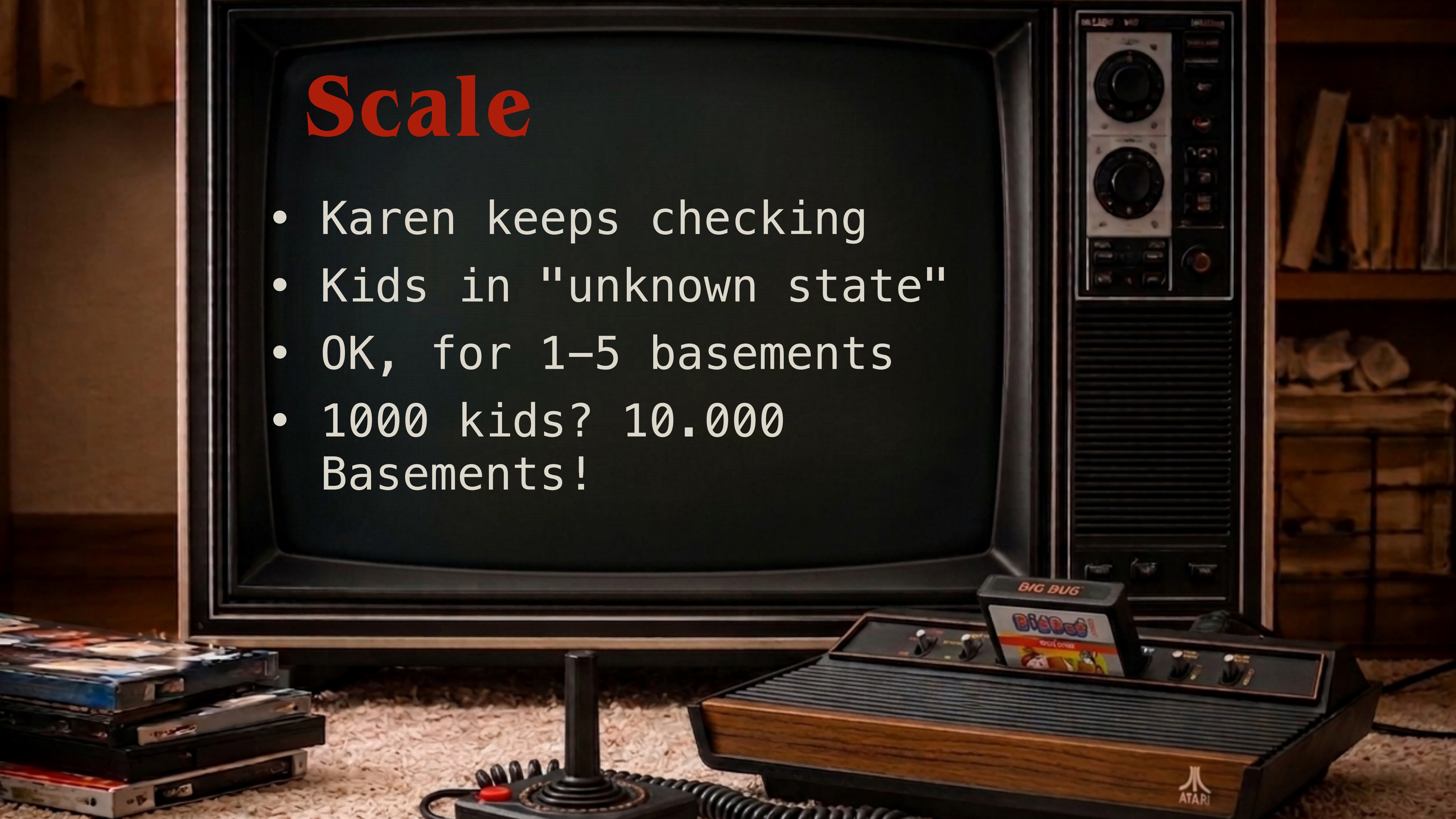




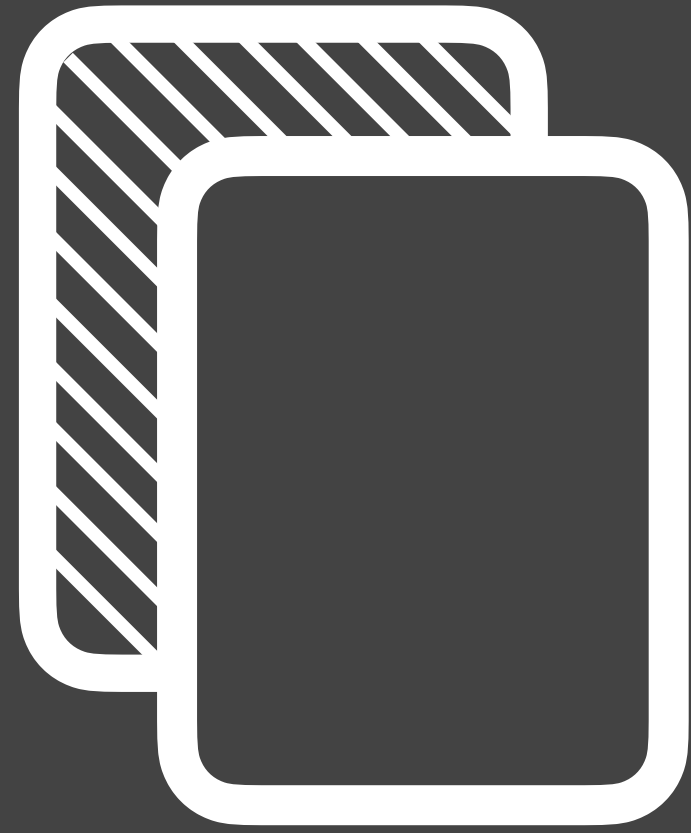


Scale

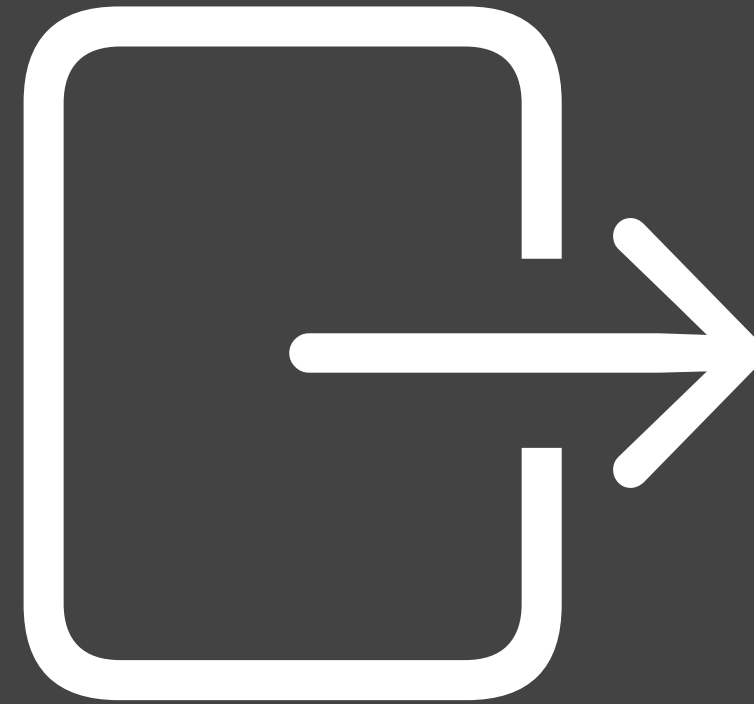
- Karen keeps checking
- Kids in "unknown state"
- OK, for 1-5 basements
- 1000 kids? 10.000 Basements!



Other polling challenges?



Latency



Drift

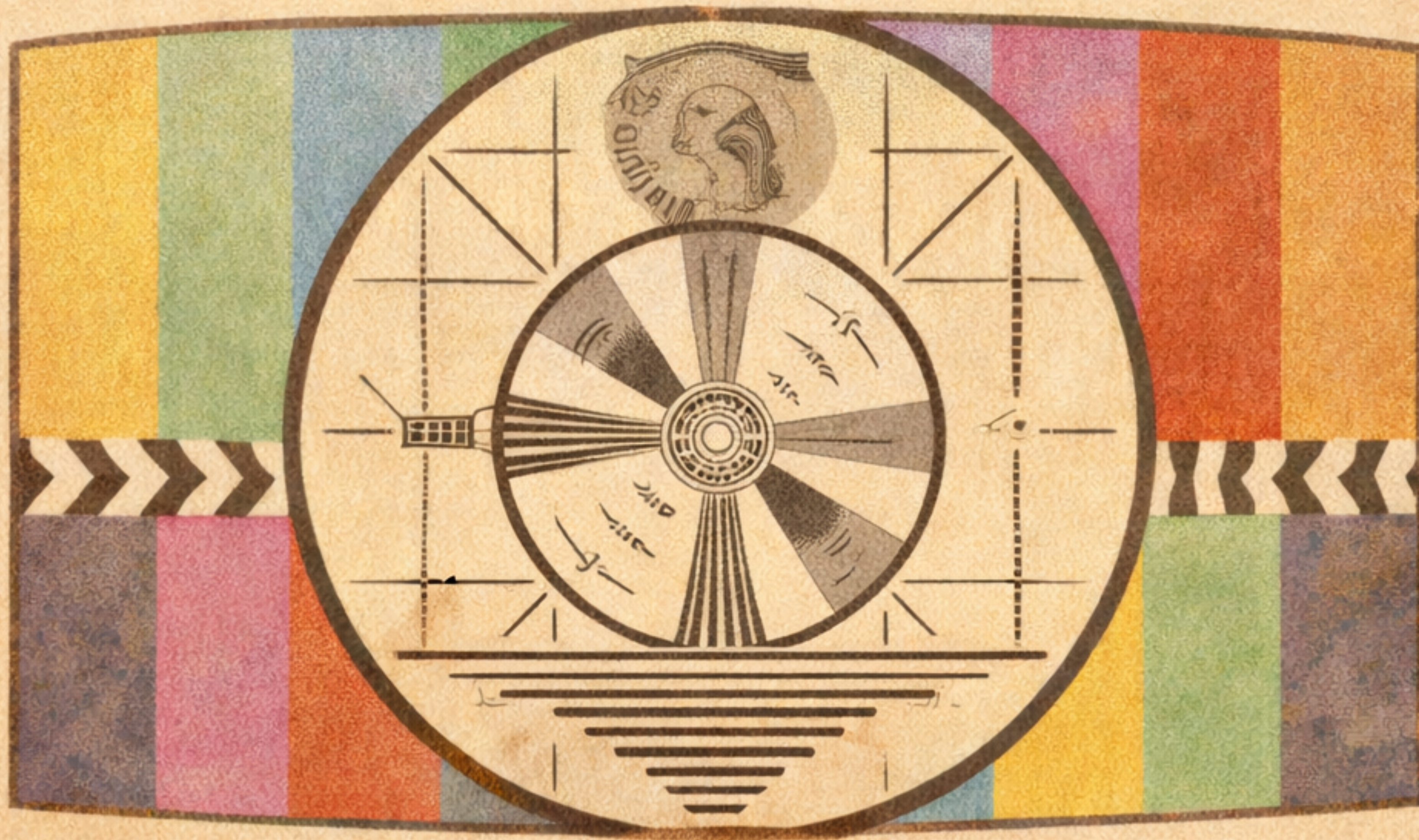


Silence

CHAPTER TWO

THE NEW UPSIDE DOWN

It's time for a break.



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DECLARATIVE DUCK MANAGEMENT

Get Your Ducks in a Row!

Call 1-800-3825-968
Call 1-800-DUCK-YOU



VS.



CHAOS & QUACKS!



ORDER & DISCIPLINE!

Declarative Device Management

New paradigm — not a new protocol

Better performance and scalability

Compatible with existing MDM Framework

JSON files

From Commands to Declarations

**Do this.
Now!**

1. Server commands
2. Device executes
3. Server polls

**This is how it
should be!**

1. Server declares state
2. Device achieves it
3. Device reports

BUY
MILK!



Karen's Rules

- No shoes inside!
- Clean up after yourself
- Bedtime 10PM



Declarative Device Management Components

Declarations

Status

Extensibility

Declarative Device Management Components

Declarations

Status

Extensibility



Declarative Device Management

Declarations

Status

Extensibility

Declarations

Declarations



Type



Identifier



ServerToken



Payload

Declarations



Type

Declarations



Type

com.apple.

Declarations



Type

`com.apple.configuration.accounts`

`com.apple.configurations.safari`

Declarations



Type



Identifier



ServerToken



Payload

Declarations



Identifier



ServerToken

UUID = "WI11-3113V3N-5URV1V3" S1E1

UUID = "WI11-3113V3N-5URV1V3" S1E2

Declarations



Type



Identifier



ServerToken



Payload

Declarations



Payload



Configurations



Management



Assets



Activations

Declarations



Payload



Management

- .organisation-info
- .properties
- .server-capabilities
- .declarationbase

Declarations



Payload



Configurations



Management



Assets



Activations

Declarations



Large Data



Personal Data

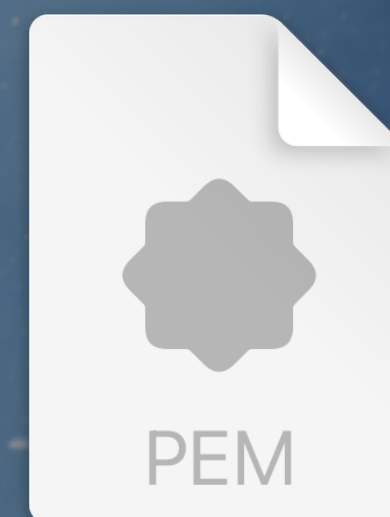
Declarations



Payload



Assets



one-to-many

certificate



`security.identity`



`com.apple.wifi.managed`

Declarations



Payload



Assets



`com.apple.wifi.managed`



certificate



Declarations



Payload



Assets



`com.apple.wifi.managed`



certificate



Declarations



Payload



Assets



`com.apple.wifi.managed`



certificate



Declarations



Payload



Configurations



Management



Assets



Activations

Declarations



Payload



Activations

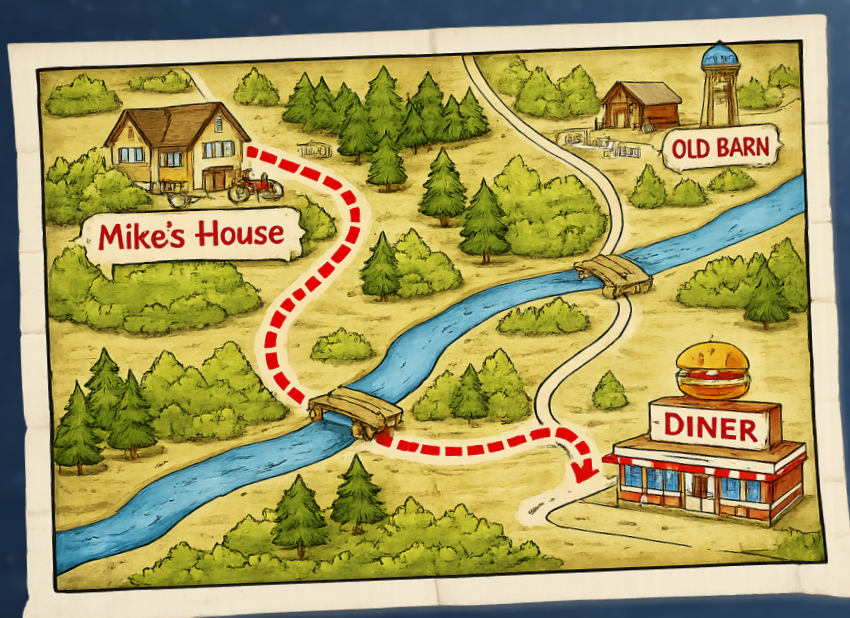
How and when

Predicate

Apply Configurations



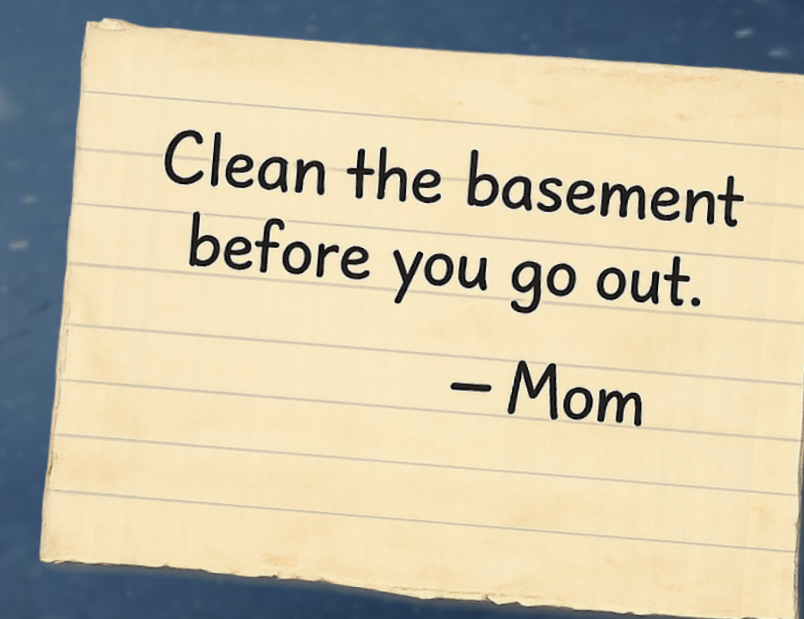
Activations



Configuration



Asset



Predicate

Declarative Device Management

Declarations

Status

Extensibility

Status

Status

```
"statusItems": [  
  {  
    "key": "device.identifier.serial-number",  
    "value": "DMPC50ALPV13"},  
  {  
    "key": "device.operating-system.version",  
    "value": "26.4.1"  
  }  
]
```


BUY
MILK!



Karen's Rules

- No shoes inside!
- Clean up after yourself
- Bedtime 10PM



JOY
ALK!



Karen's Rules

- No shoes inside!
- Clean up after yourself
- Bedtime 10PM



CHAPTER FOUR

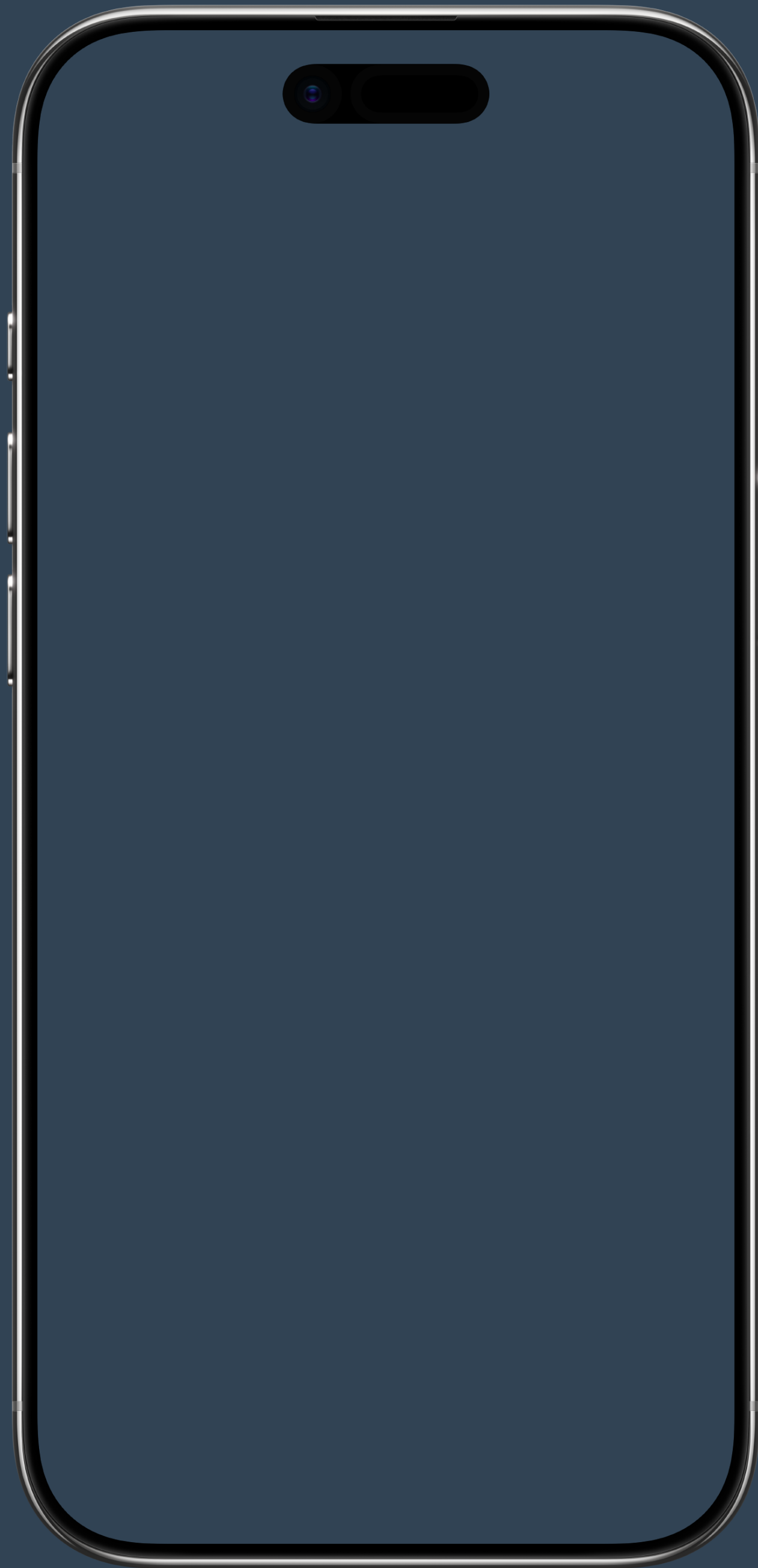
NOSTALGIA OR DEMO

DDeMo

Learn something new

Three different approaches







CHAPTER FIVE

NEXT SEASON

What is holding things back?

Nostalgia Is Not a Strategy



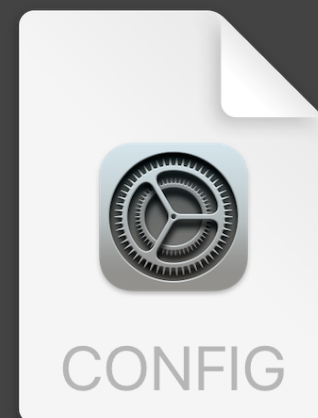
New technology

What is holding things back?

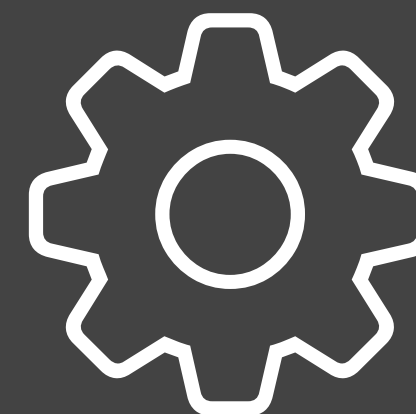
Nostalgia Is Not a Strategy



New technology



≠



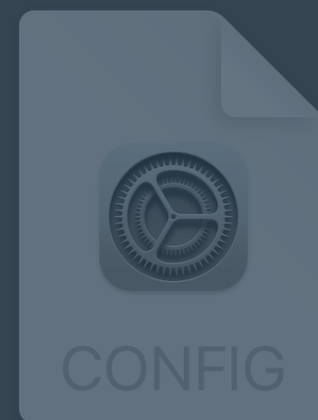
Keys

What is holding things back?

Nostalgia Is Not a Strategy



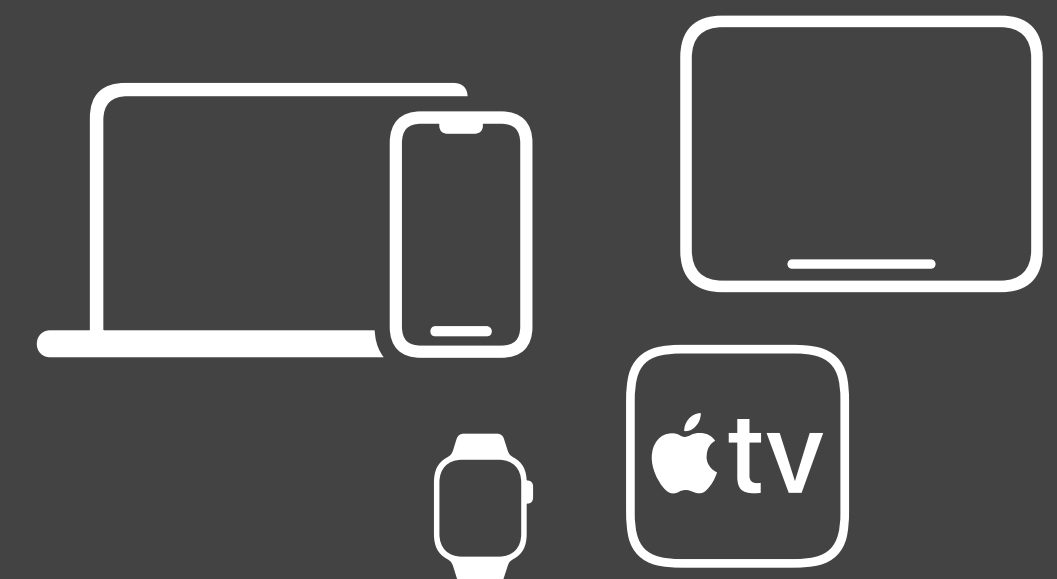
New technology



≠



Keys



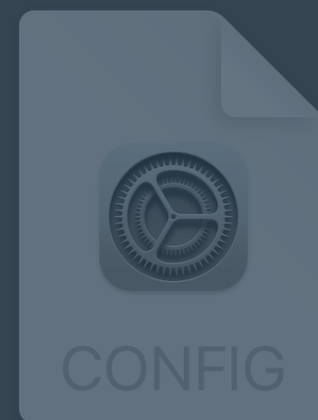
Existing Fleet

What is holding things back?

Nostalgia Is Not a Strategy



New technology



≠



Keys



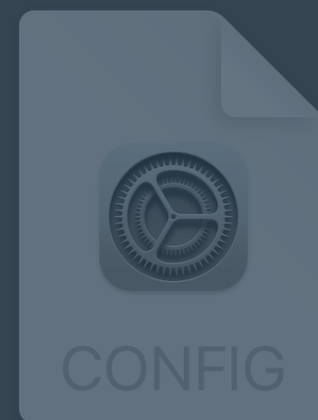
Existing Fleet

What is holding things back?

Nostalgia Is Not a Strategy



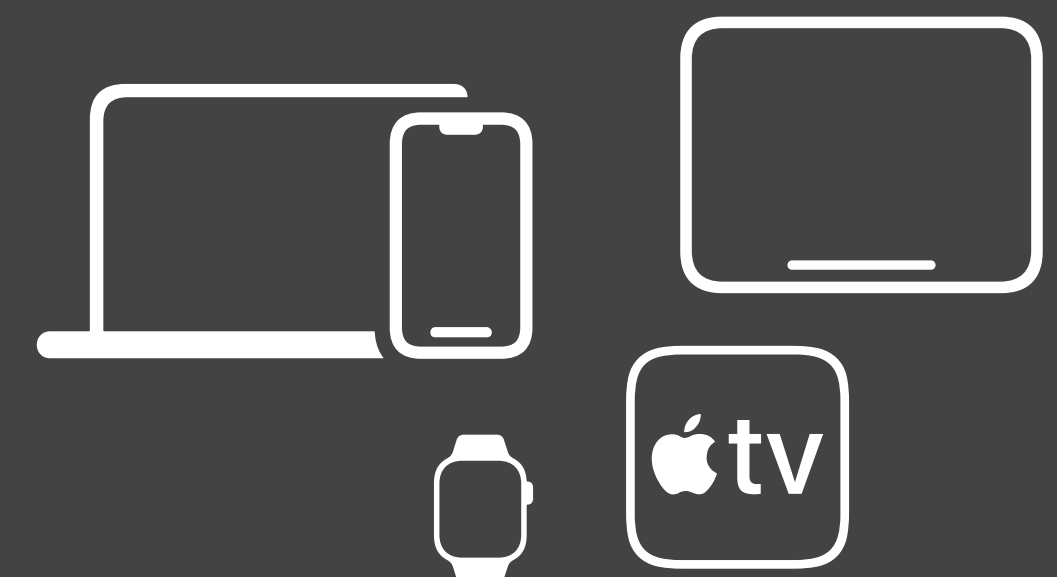
New technology



≠



Keys



Existing Fleet



What should vendors be doing?

Apple is not scared of deprecating

Configuration Profiles have an end date

Prepare for on Device DDM takeover

"Advances in DDM" - WWDC 2023

What Should Apple Admins Do Next?

Stay current: AppleSeed + Vendor's release notes

Test new features!

Check your vendors roadmap for CF deprecation


```
// activation
```

```
"Predicate" : "(@status(house.basement) == 'Cleaned')"
```

```
// person.management.location
```

```
"person": {  
  "identifier": {  
    "name": "Mike Wheeler" }  
  "management": {  
    "location": "BMX Range" }  
}
```


Thank you!

Special thanks to:

Selina Ali, Weldon Dodd, Mike Boylan, Tom Holbrook, Rich Trouton,
Richard Mallion, Lionel Gruenberg, Bryce Carlson, Mark Buffington,
Tom Bridge & Kenneth Villadsen

Links, scripts & API
strangerstrings.uk