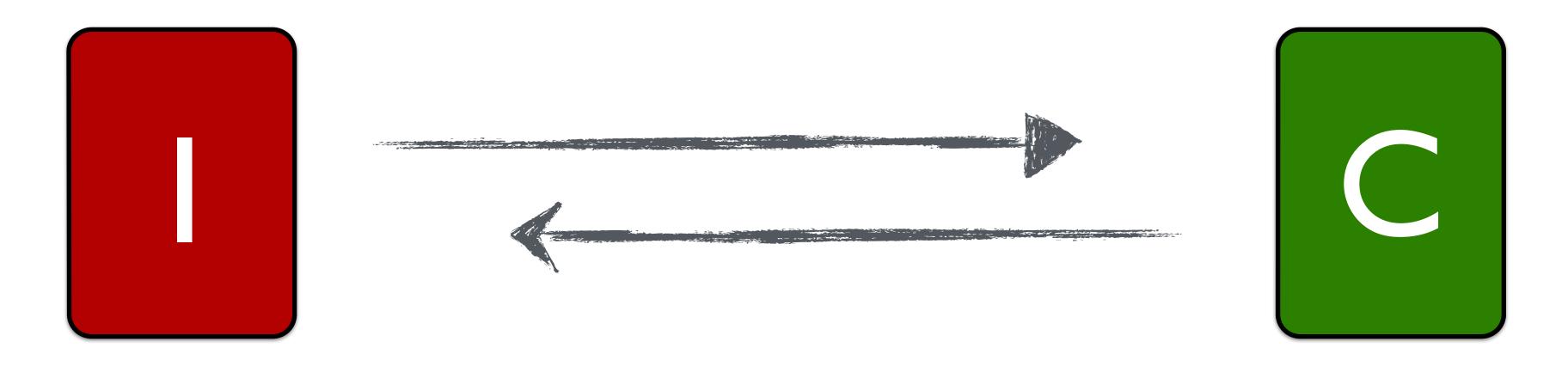


Core protocol

An Interest Message



A request for a named piece of content

A reply with a named piece of content

A Content Message



Manifest





Manifest goals

Efficiency

Security

Indirection

Management



Manifest design

Data organization

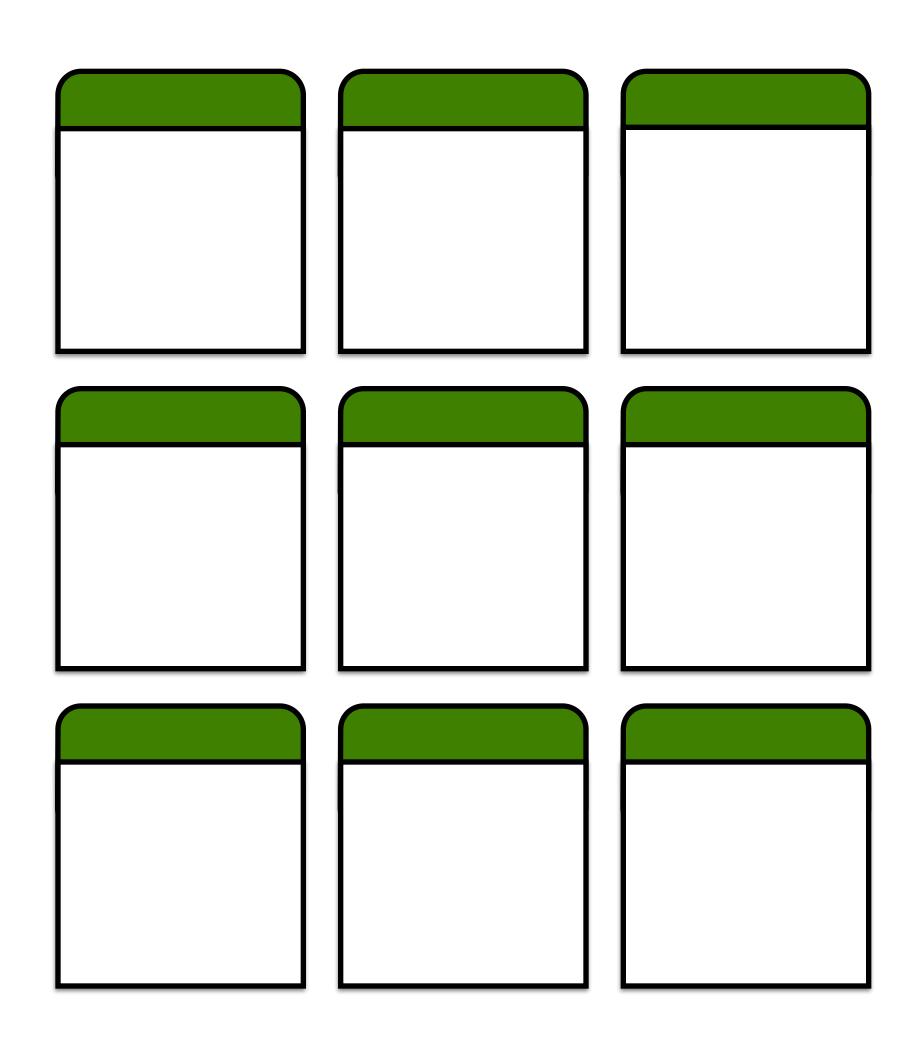
Associated Metadata

Security bindings

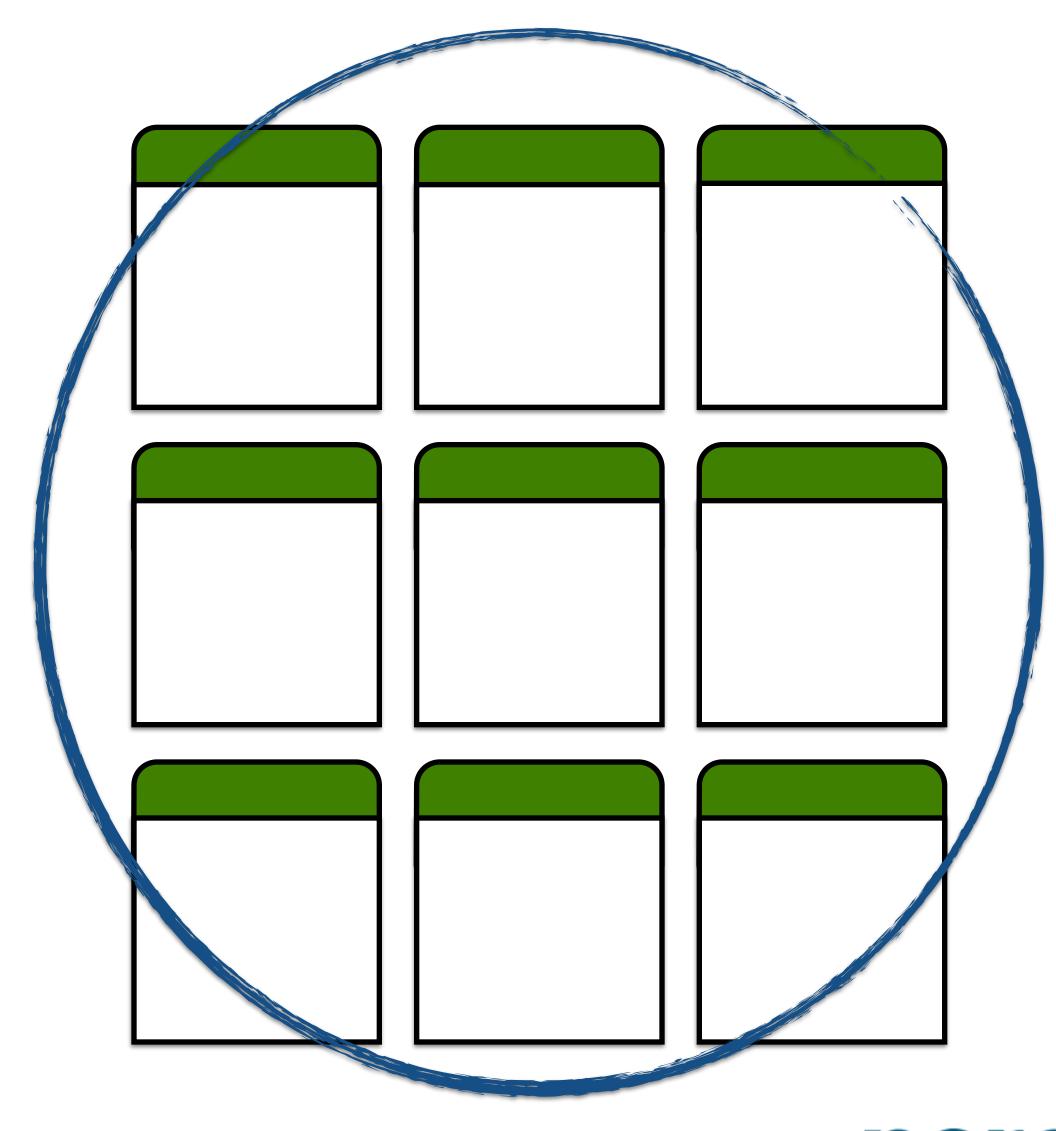
Efficient

Flexible

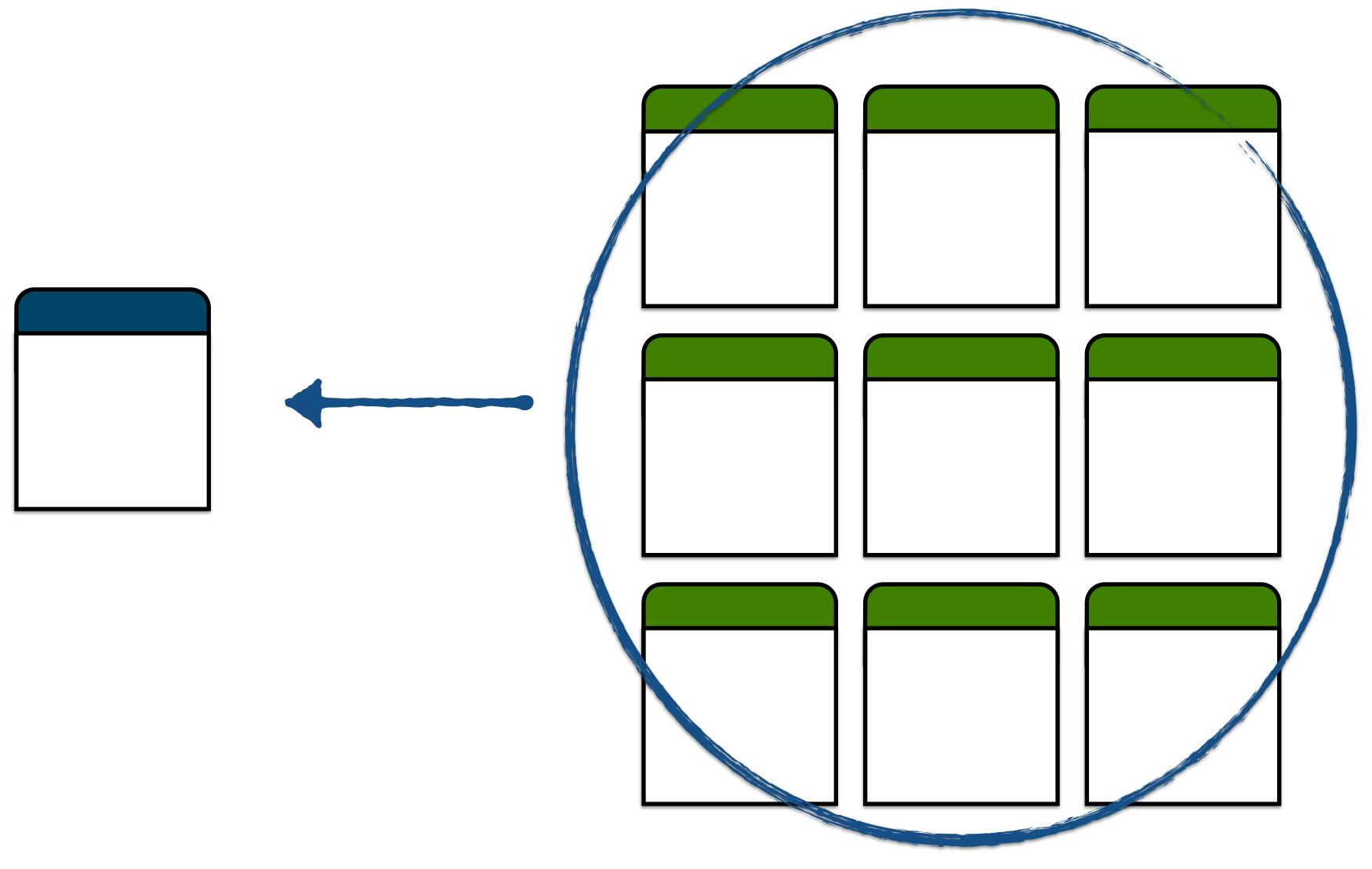




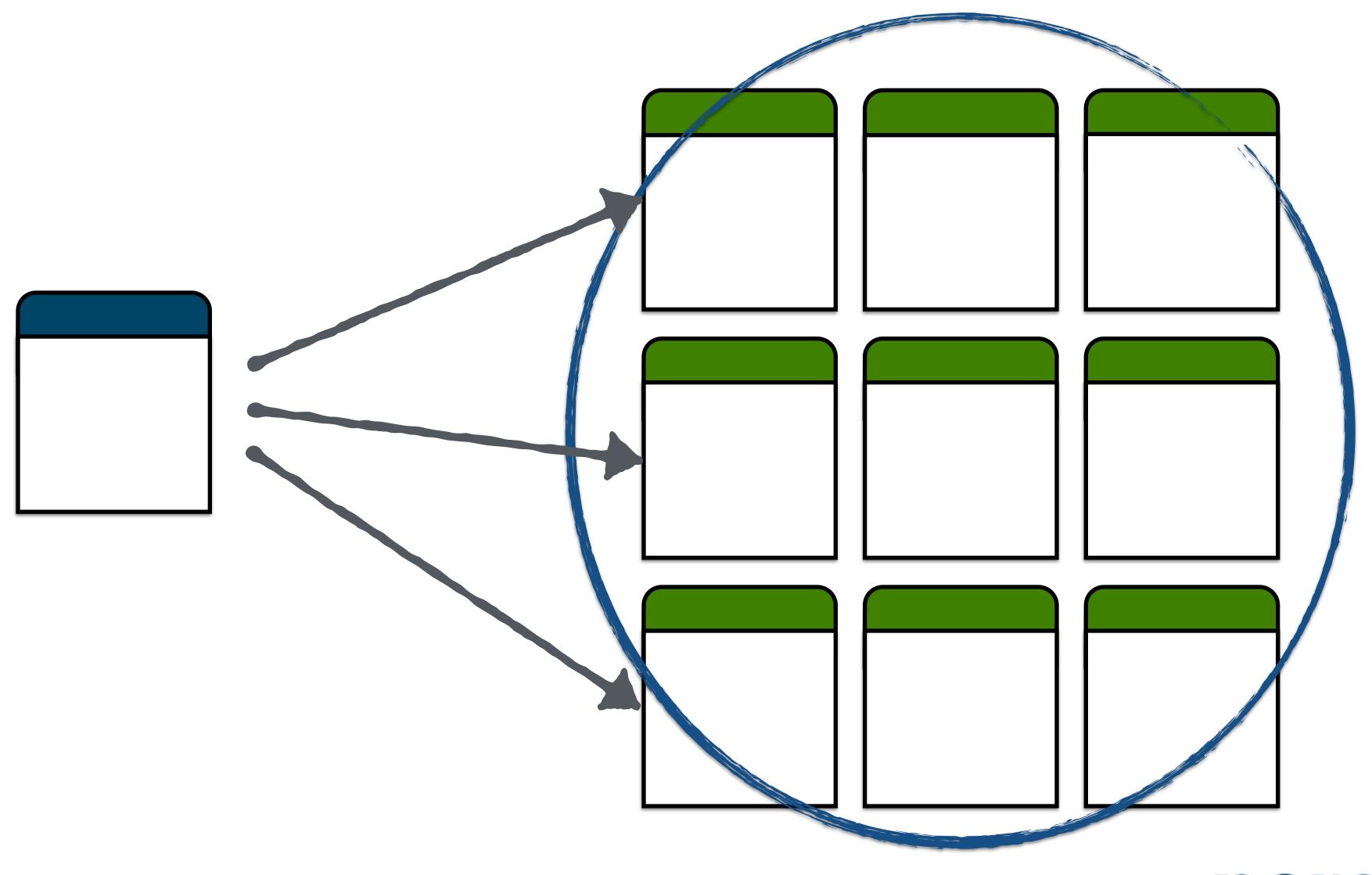




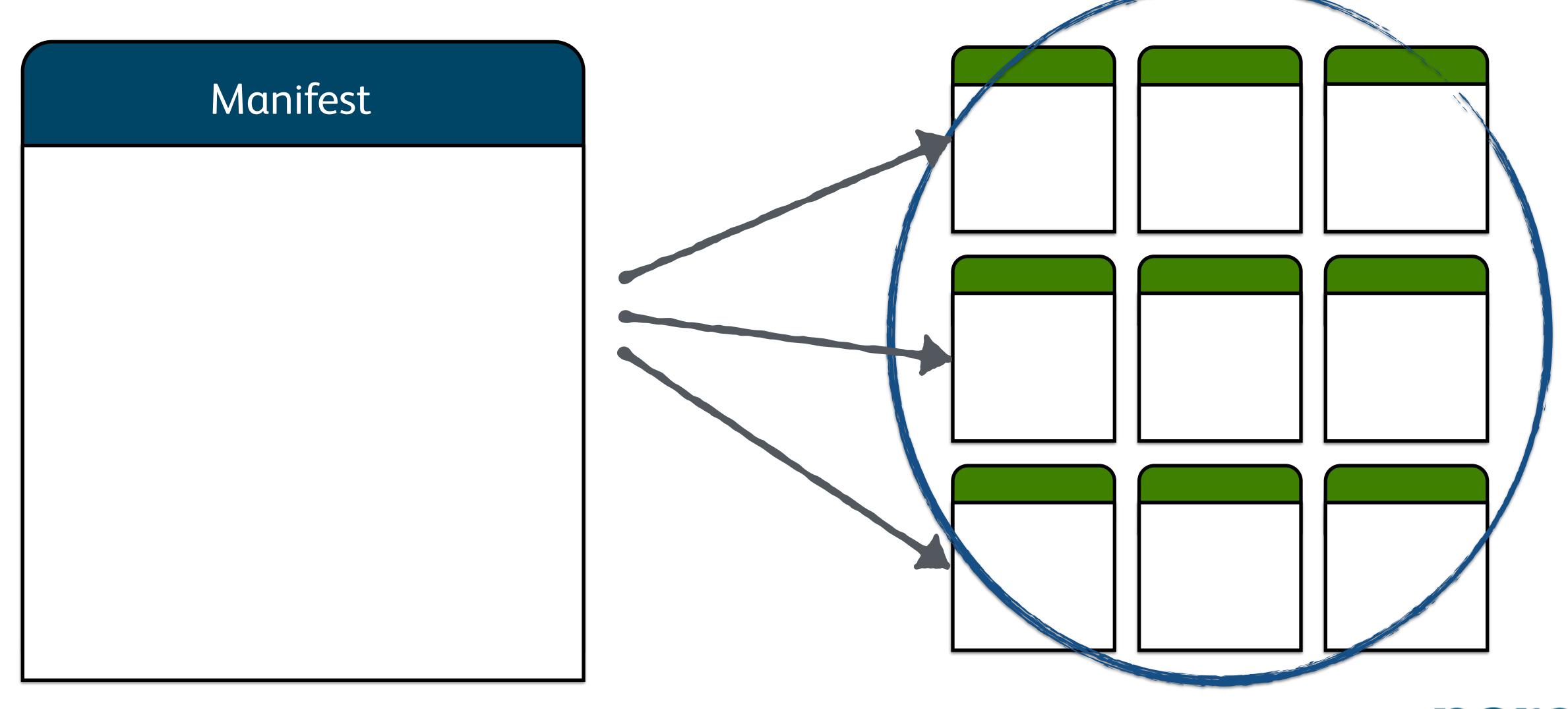






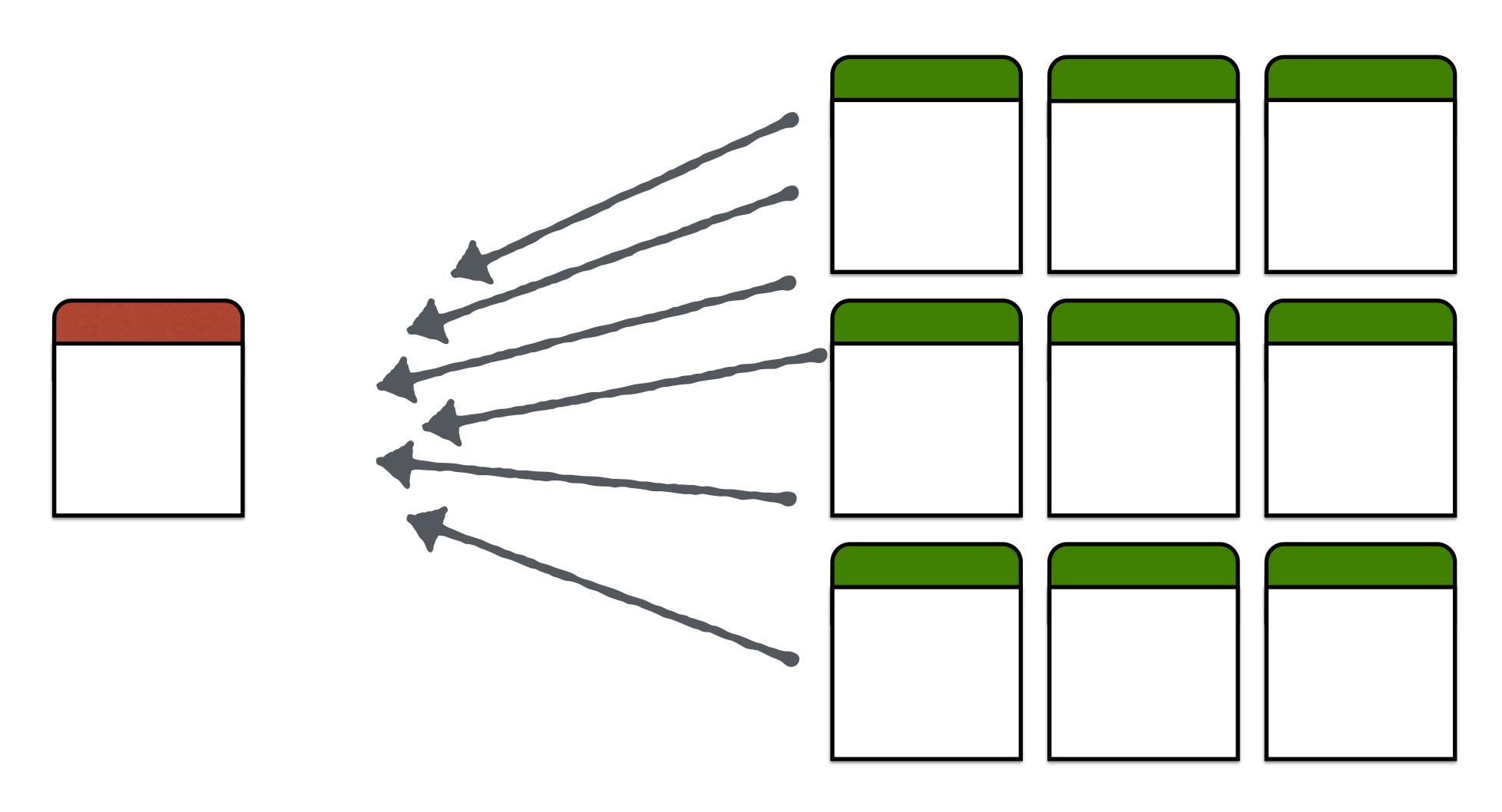






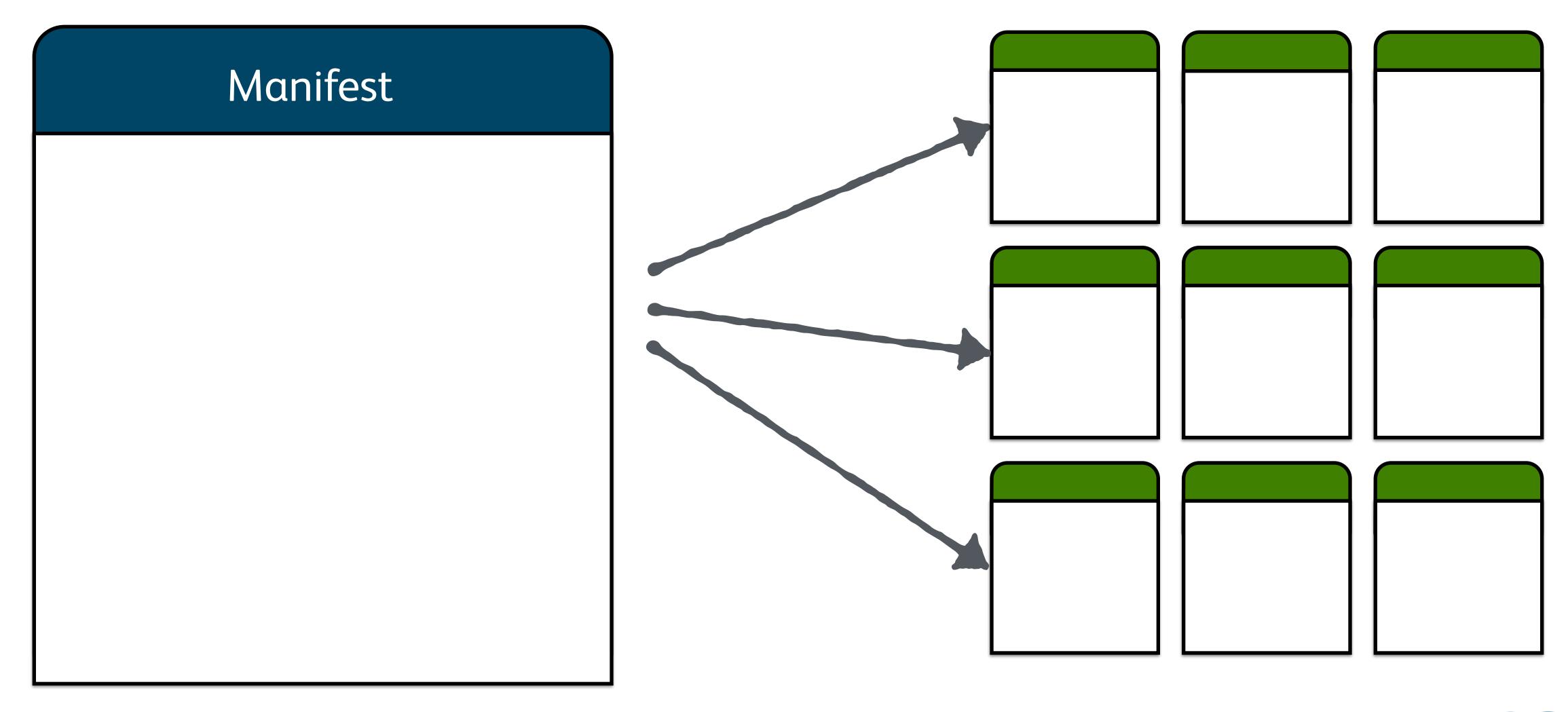


Metadata



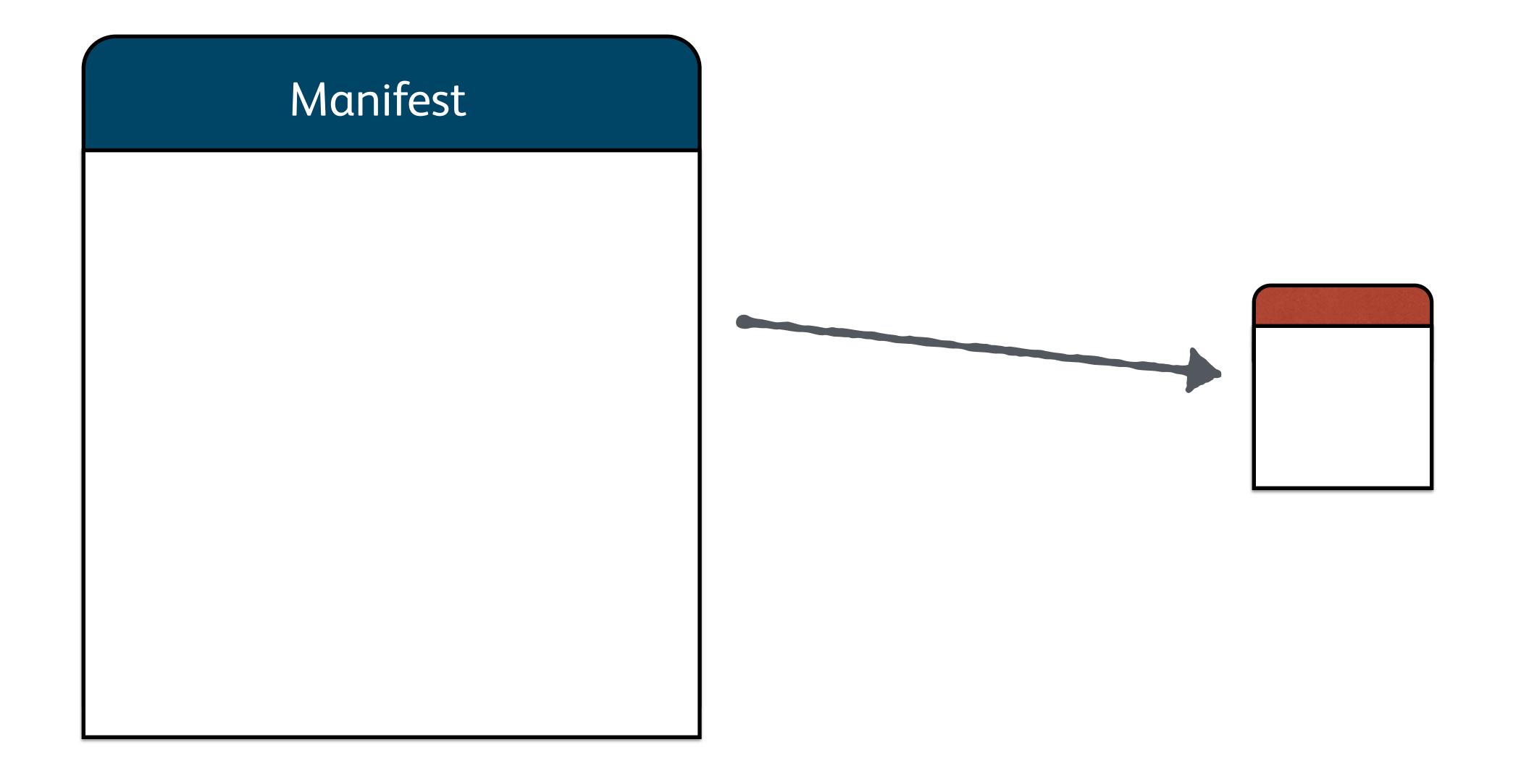


Manifest represents the group



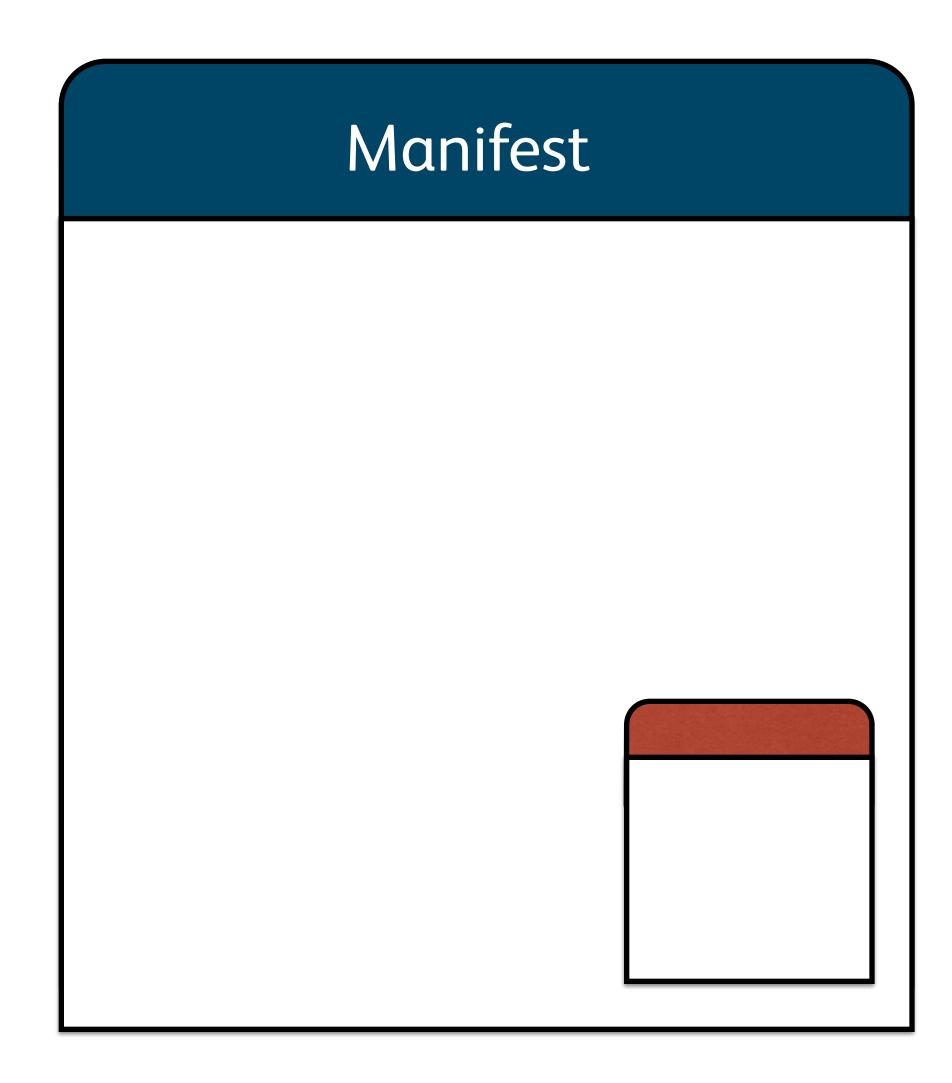


Manifest associates with metadata

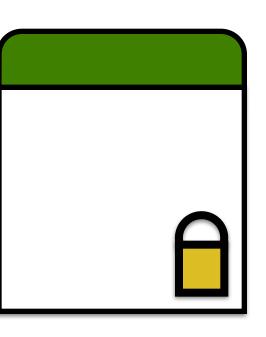




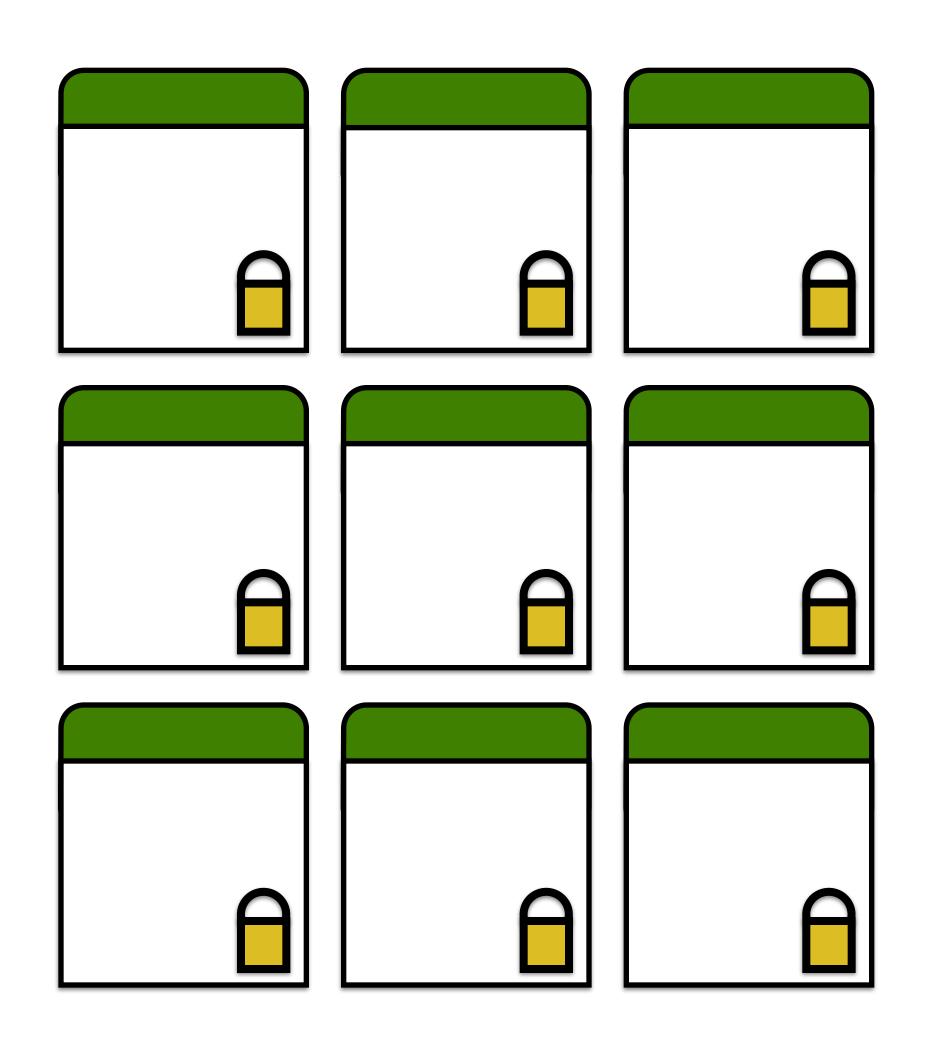
Manifest incorporates metadata



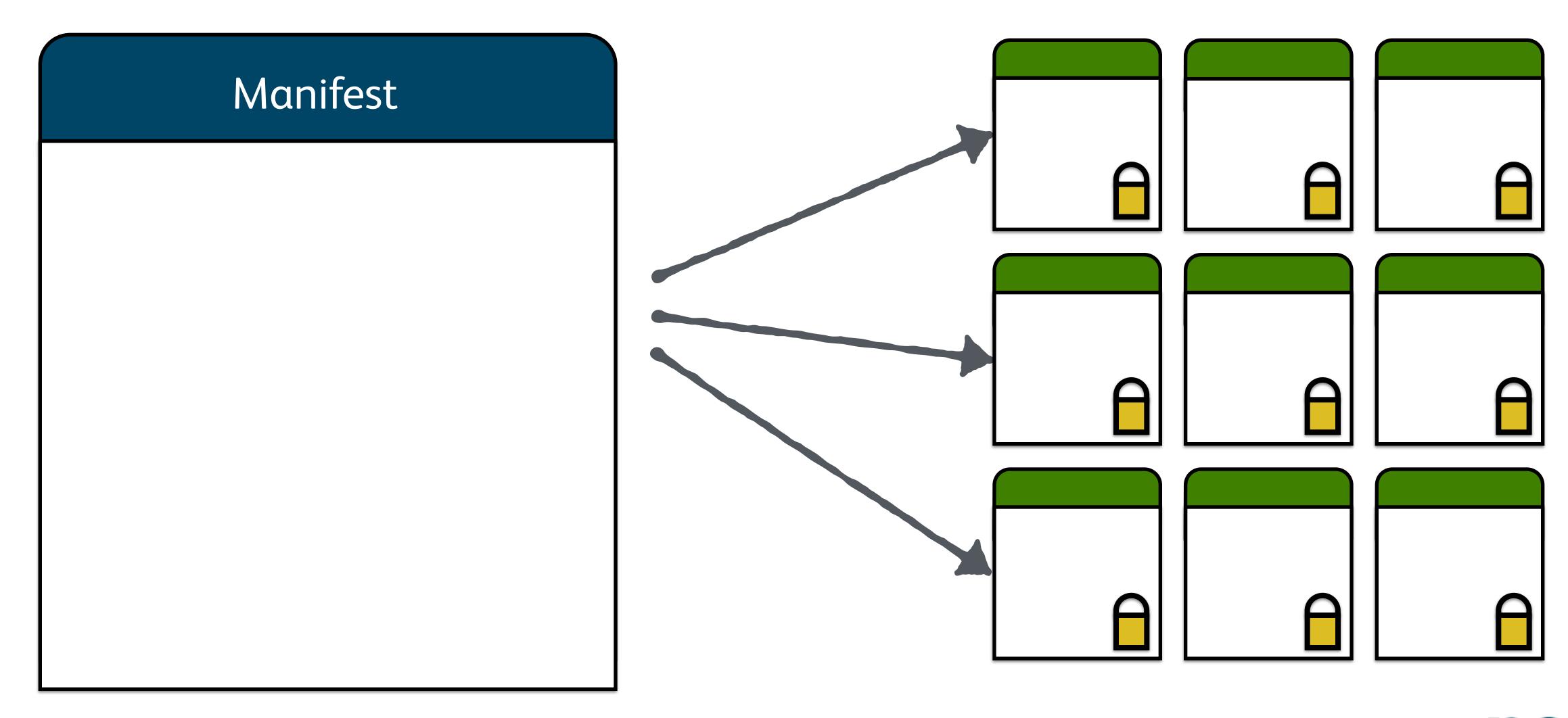




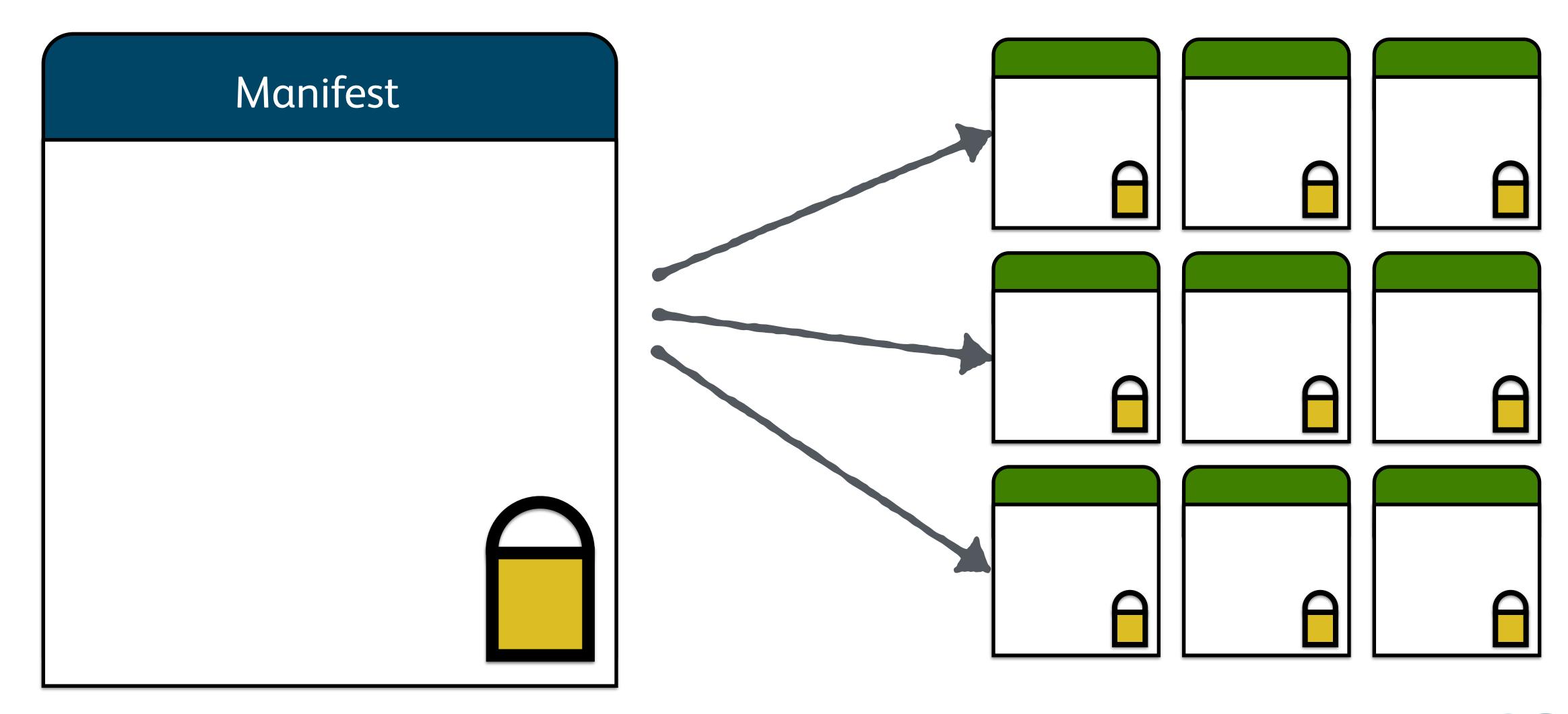




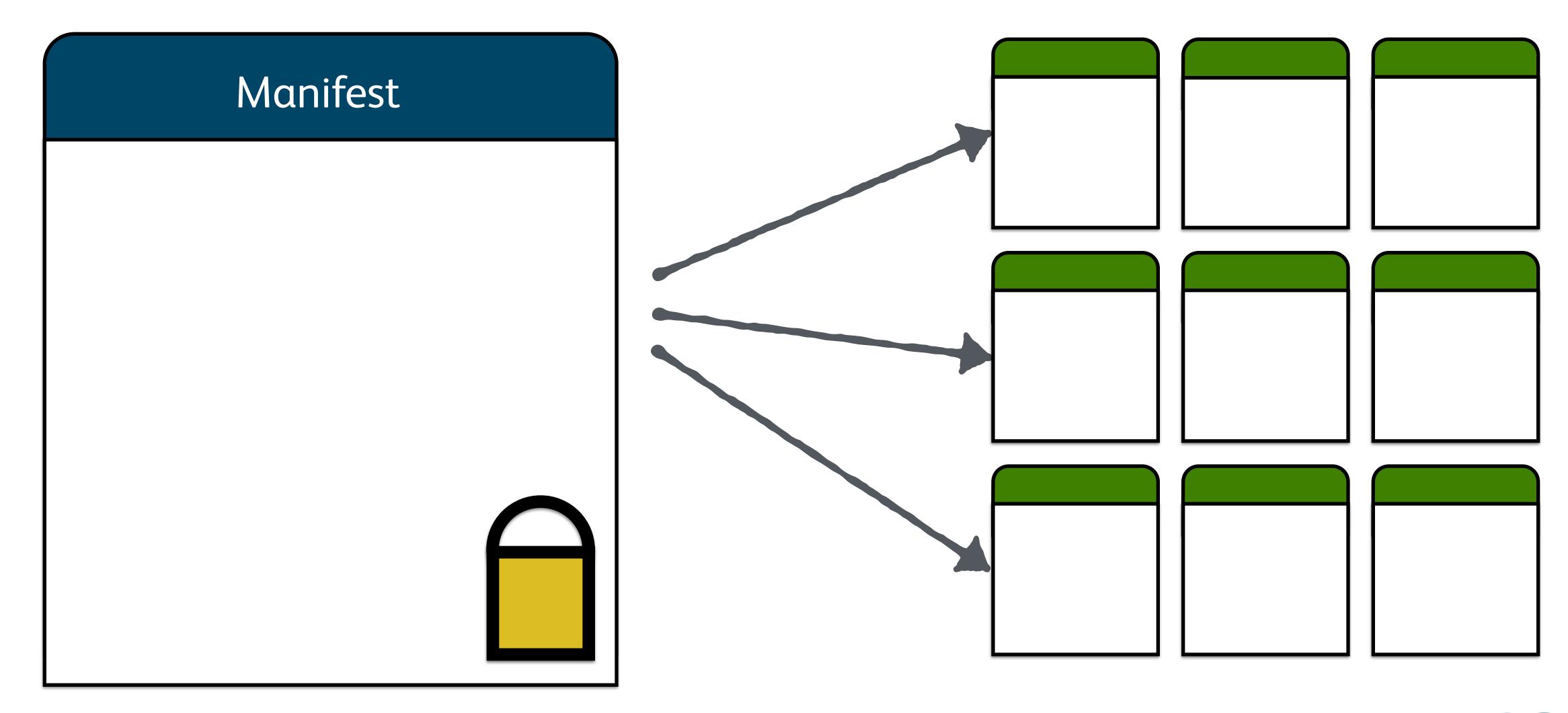




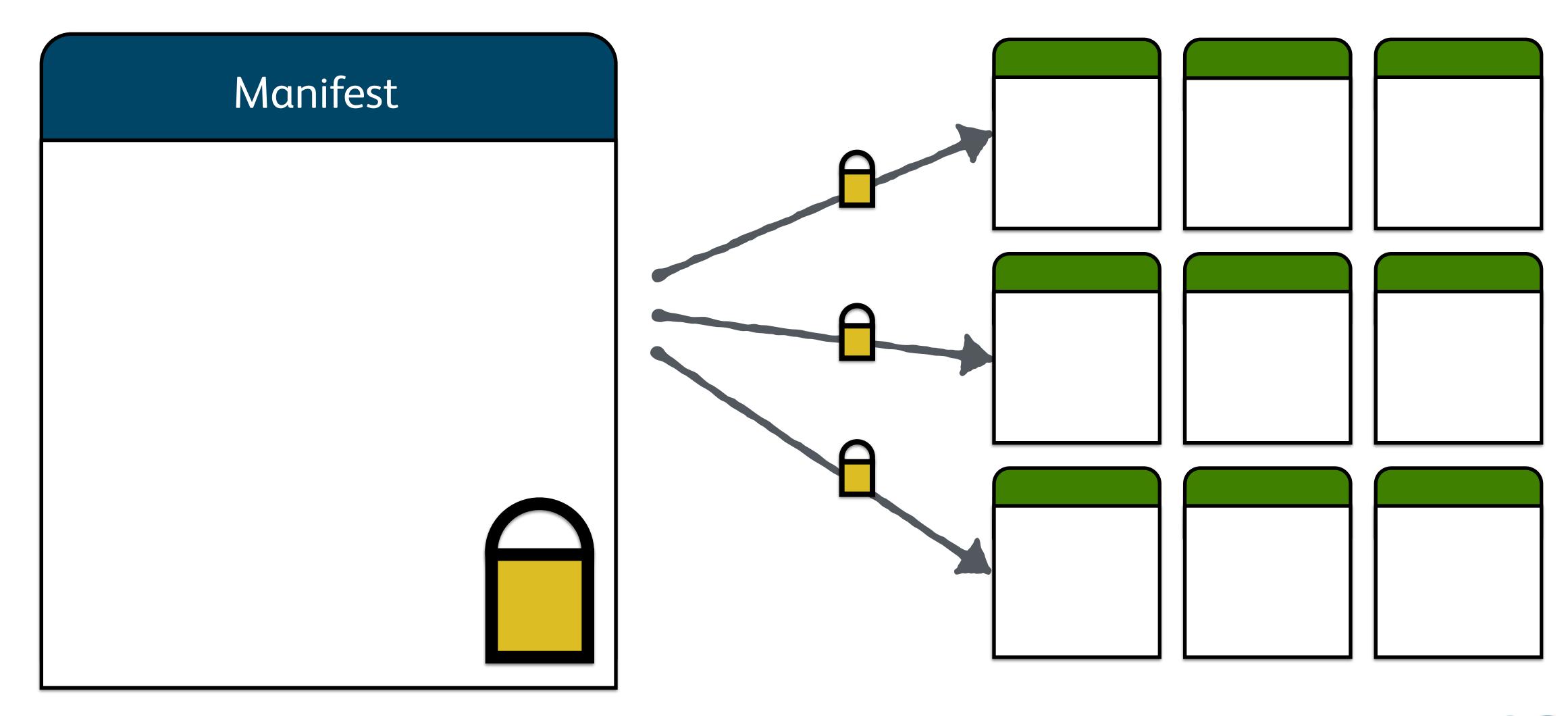














Manifest overview

Manifest

Name

Content Messages Catalog

Optionally encrypted

Aggregate Metadata

Optionally encrypted

Publisher Signature



Network data structures

Manifest Name Content Messages Catalog Optionally encrypted Aggregate Metadata Optionally encrypted Publisher Signature



Manifest

Name

Content Messages Catalog

Optionally encrypted

Aggregate Metadata

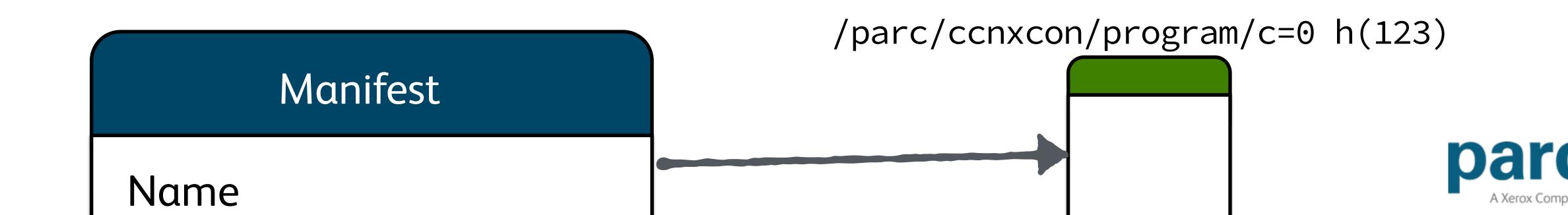
Optionally encrypted

Publisher Signature



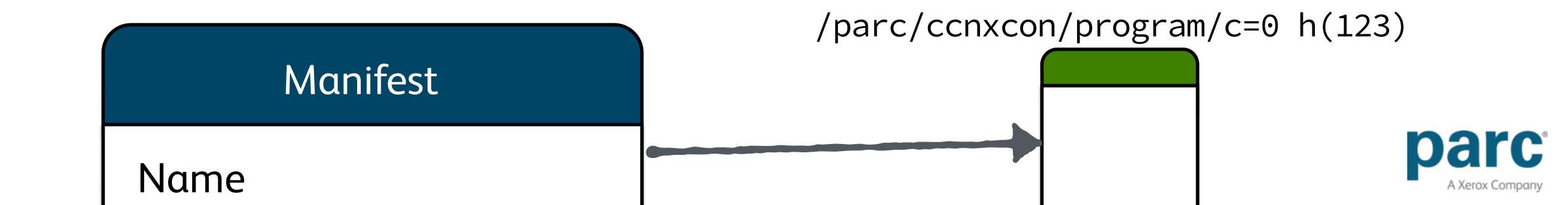
```
/parc/ccnxcon/program
```

```
/parc/ccnxcon/program/c=0
/parc/ccnxcon/program/c=1
/parc/ccnxcon/program/c=2
/parc/ccnxcon/program/c=3
```



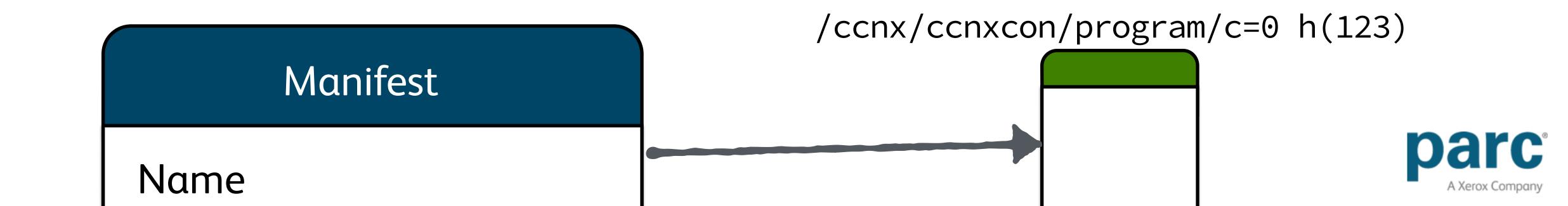
```
/parc/ccnxcon/program /par
```

```
/parc/ccnxcon/program/c=0 h(123)
/parc/ccnxcon/program/c=1 h(456)
/parc/ccnxcon/program/c=2 h(789)
/parc/ccnxcon/program/c=3 h(abc)
```

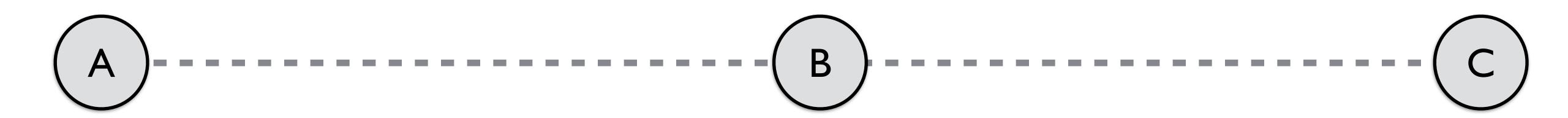


Manifest naming - Indirection

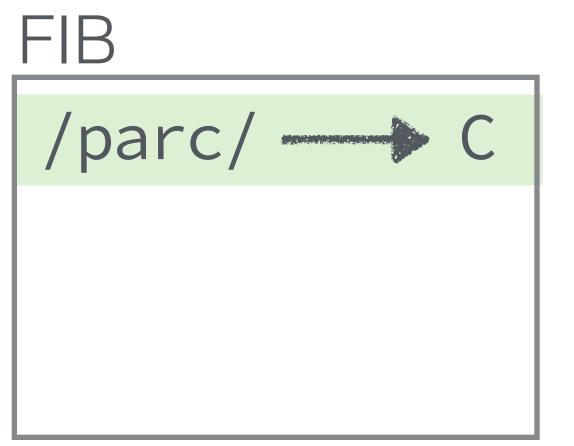
```
/parc/ccnxcon/program /ccnx/ccnxcon/program/c=0 h(123)
/ccnx/ccnxcon/program/c=1 h(456)
/ccnx/ccnxcon/program/c=2 h(789)
/ccnx/ccnxcon/program/c=3 h(abc)
```

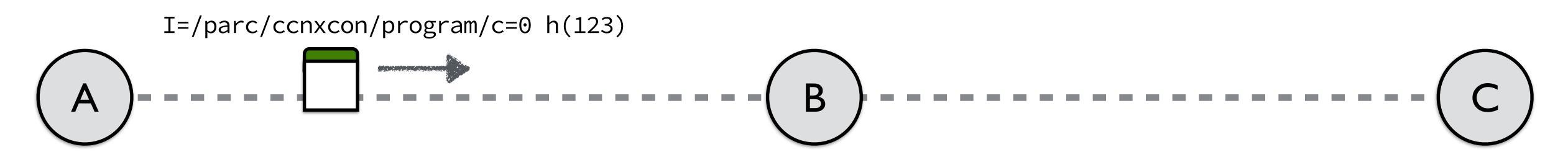


/parc/ C

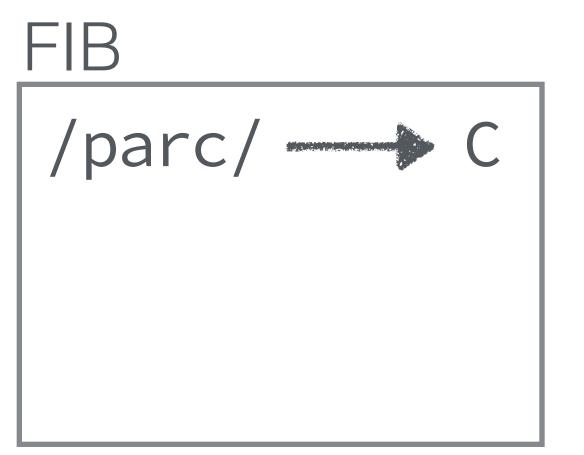


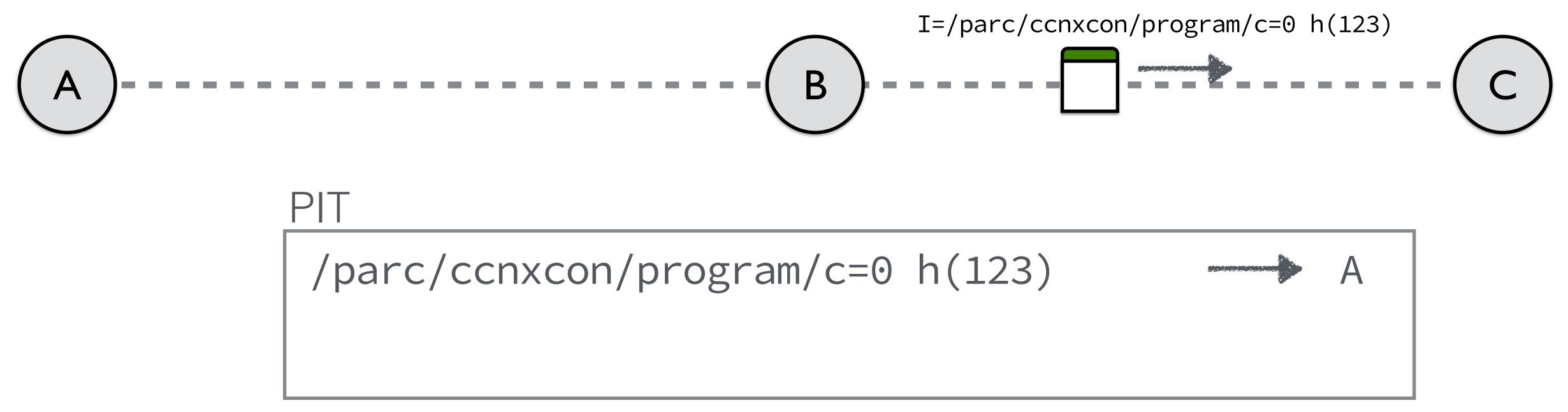






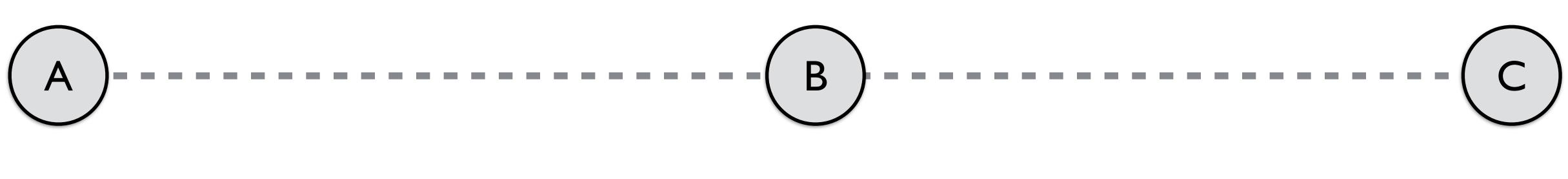






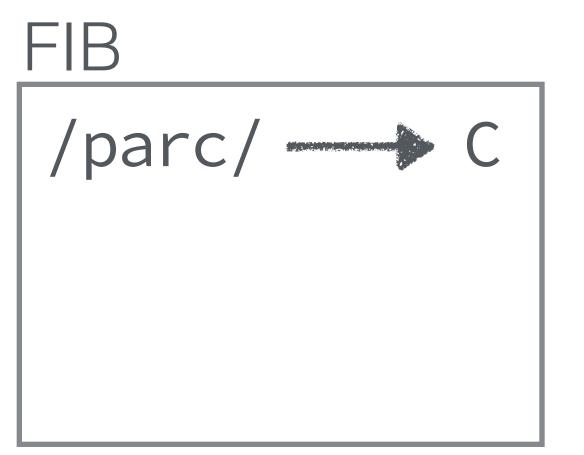


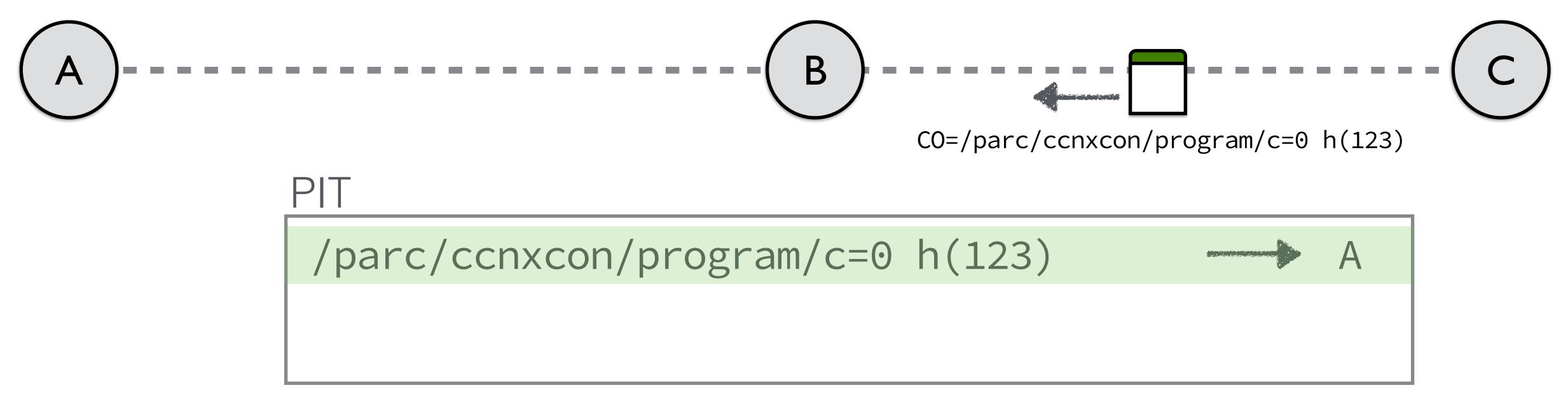
```
/parc/ C
```



PIT
/parc/ccnxcon/program/c=0 h(123) A

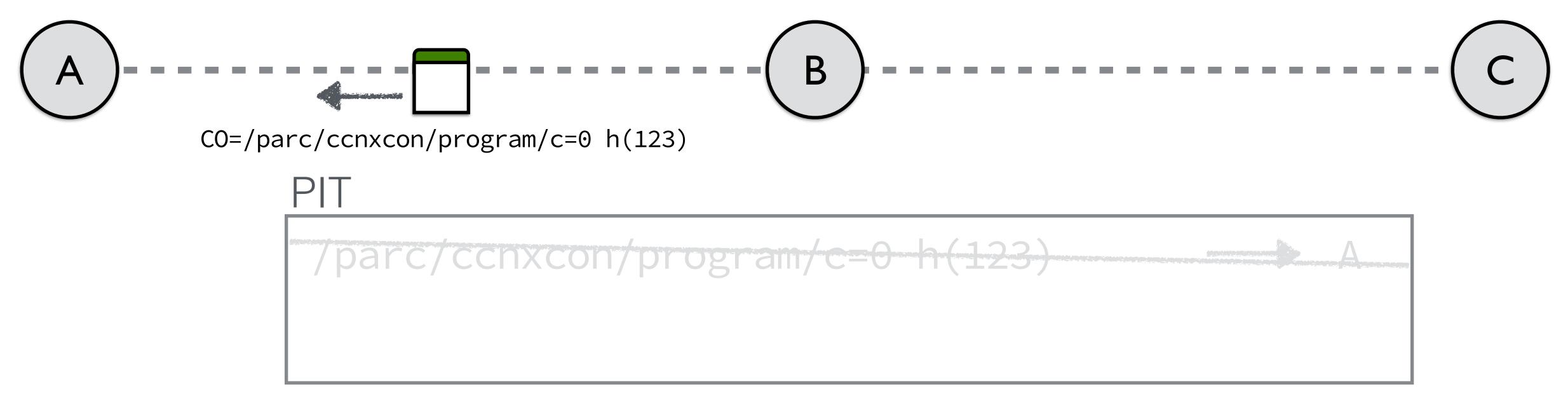




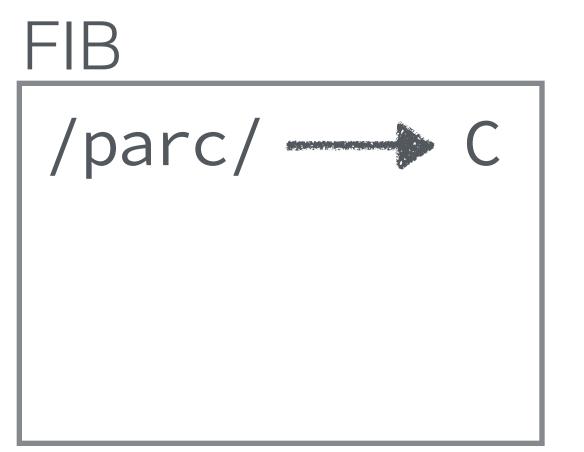


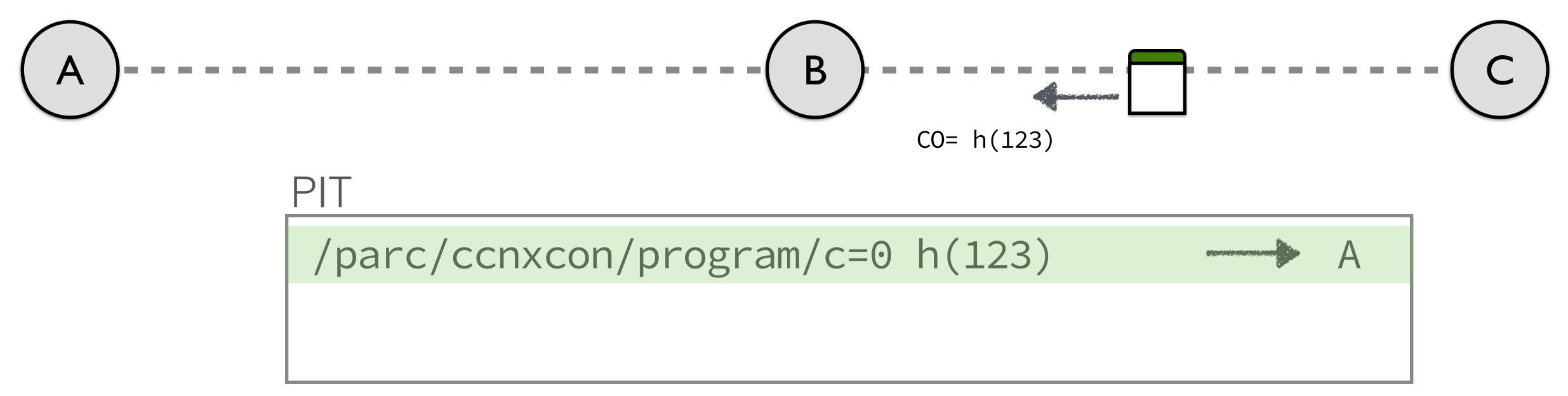


/parc/ C



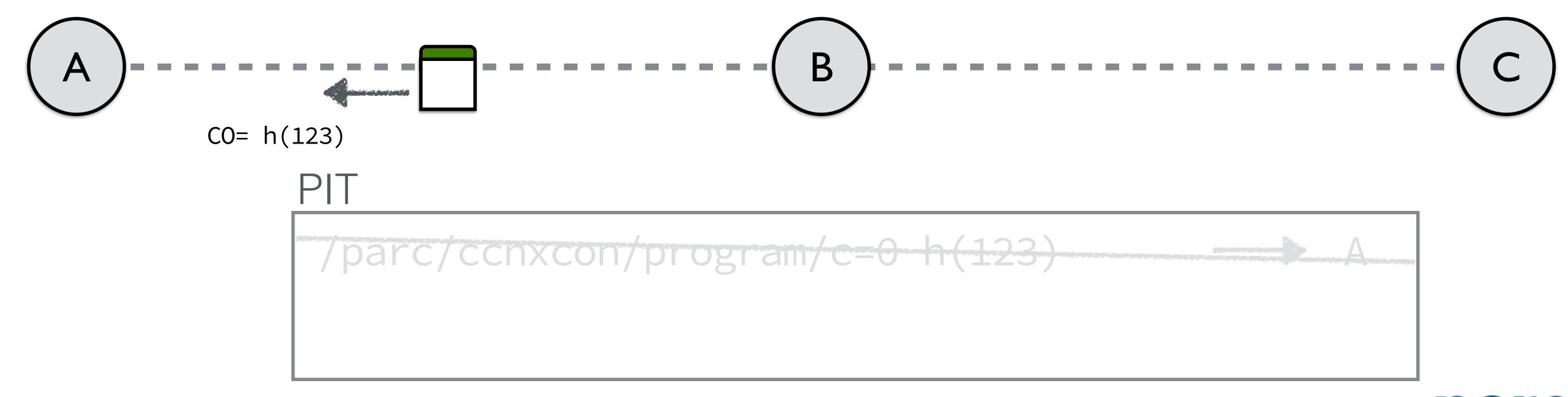








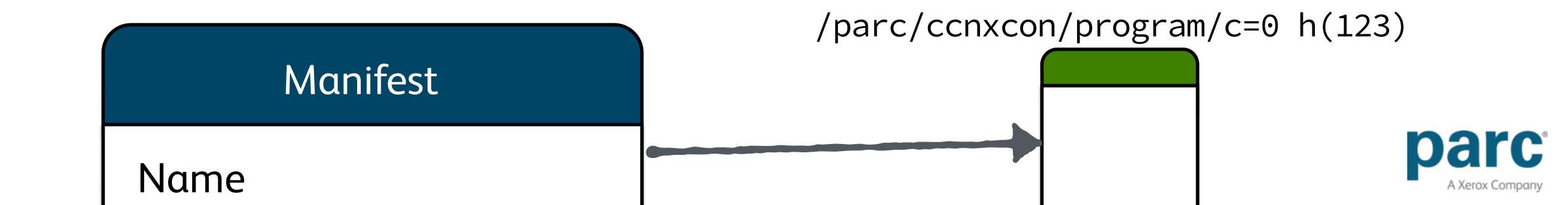
/parc/ C





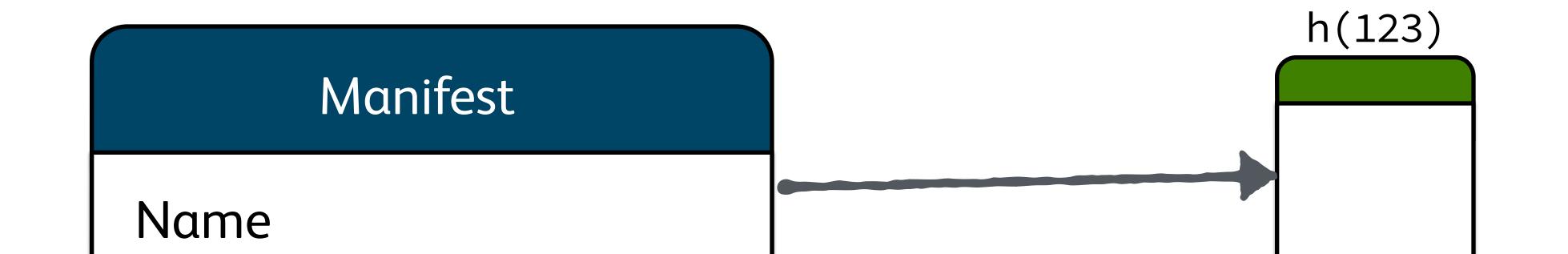
```
/parc/ccnxcon/program /par
```

```
/parc/ccnxcon/program/c=0 h(123)
/parc/ccnxcon/program/c=1 h(456)
/parc/ccnxcon/program/c=2 h(789)
/parc/ccnxcon/program/c=3 h(abc)
```



```
/parc/ccnxcon/program
```

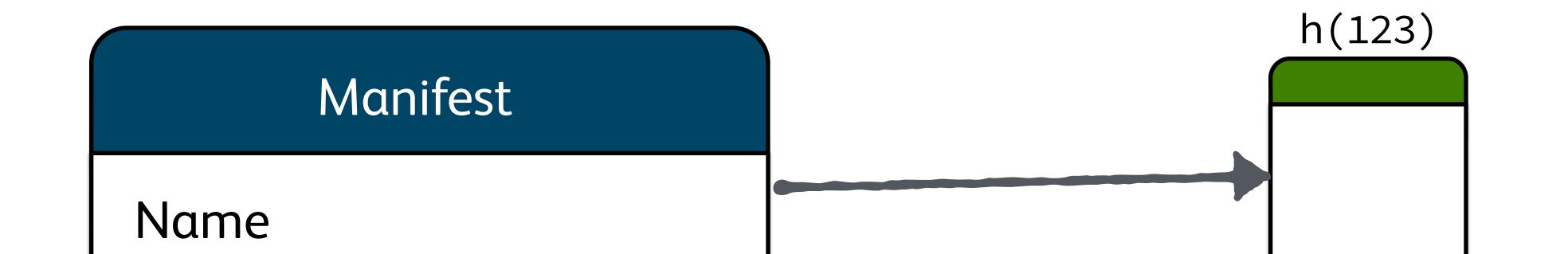
```
/parc/ccnxcon/program/c=0 h(123)
/parc/ccnxcon/program/c=1 h(456)
/parc/ccnxcon/program/c=2 h(789)
/parc/ccnxcon/program/c=3 h(abc)
```





```
/parc/ccnxcon/program
```

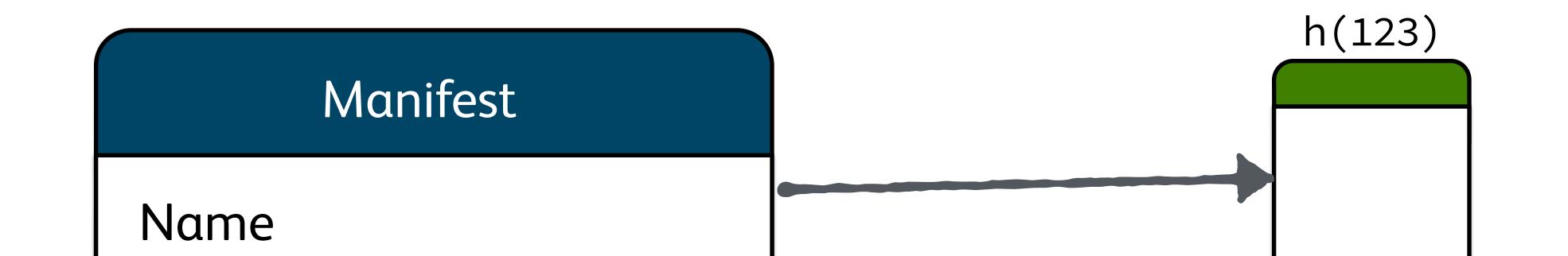
```
/ccnx/ccnxcon/program/c=0 h(123)
/ccnx/ccnxcon/program/c=1 h(456)
/ccnx/ccnxcon/program/c=2 h(789)
/ccnx/ccnxcon/program/c=3 h(abc)
```



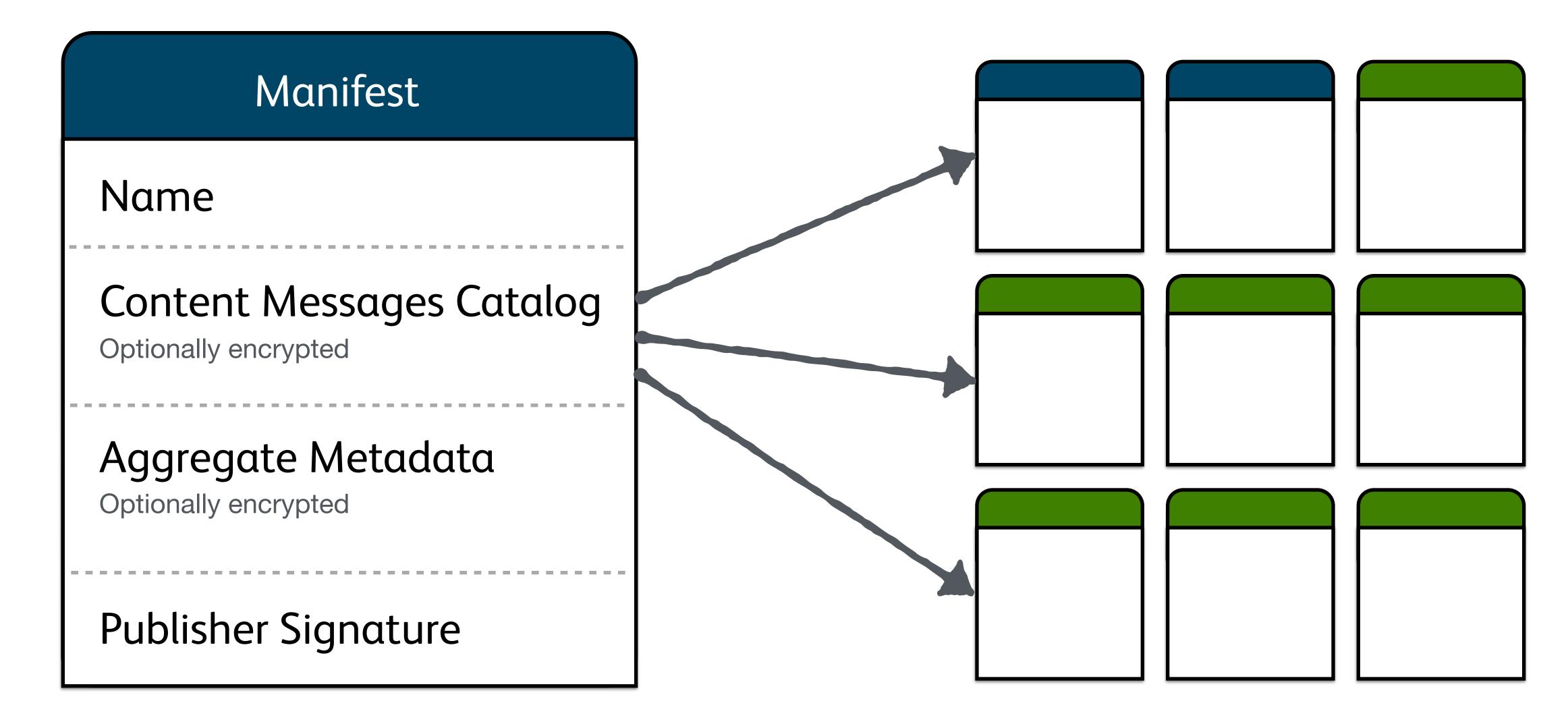


```
/parc/ccnxcon/program /ccnx/ccnxcon/program h(123)
/ccnx/ccnxcon/program h(456)
/ccnx/ccnxcon/program h(789)
```

/ccnx/ccnxcon/program h(abc)









Manifest

Name

Content Messages Catalog

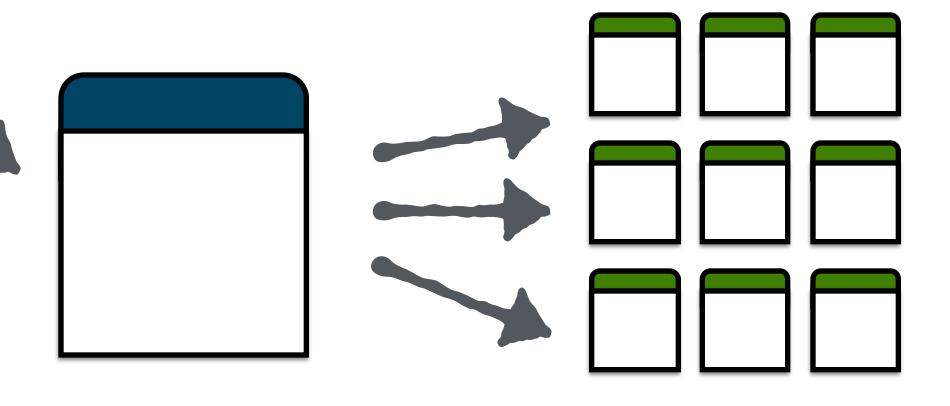
Optionally encrypted

Aggregate Metadata

Optionally encrypted

Publisher Signature

/parc/ccnxcon/program
S(parc)



/ccnx/ccnxcon/program S(ccnx)



Manifest

Name

Content Messages Catalog

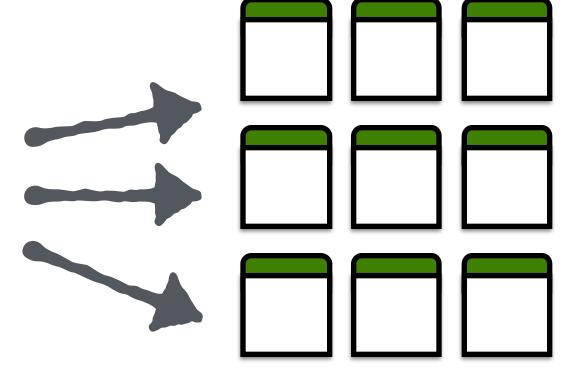
Optionally encrypted

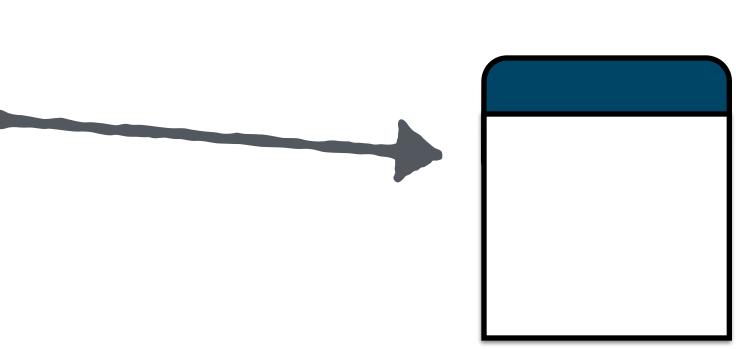
Aggregate Metadata

Optionally encrypted

Publisher Signature

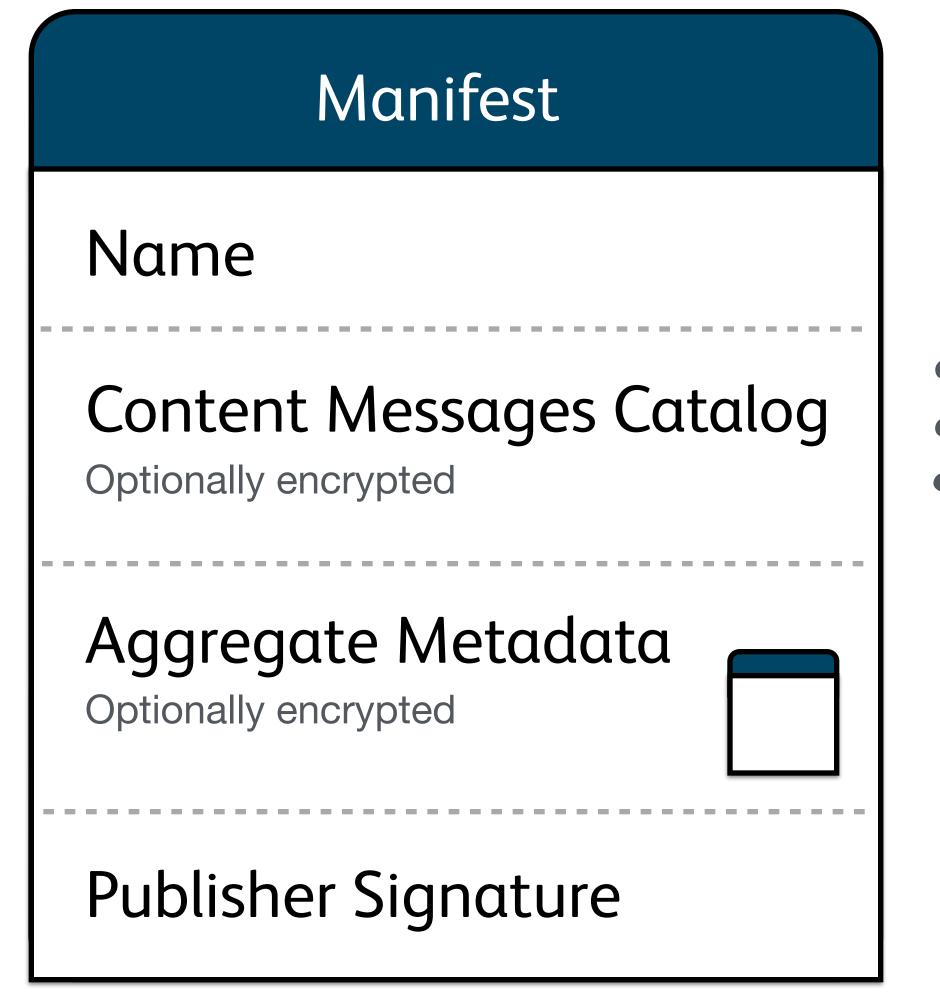
/parc/ccnxcon/program S(parc)

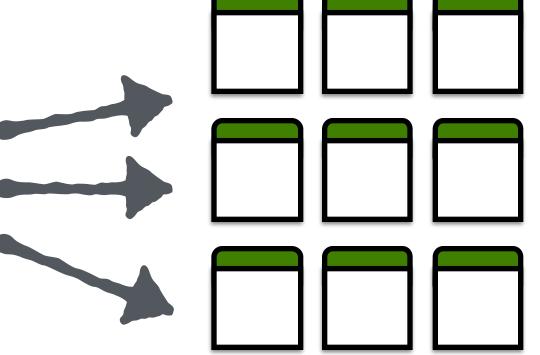




/ccnx/ccnxcon/program S(ccnx)







/parc/ccnxcon/program
S(parc)



Manifest specification

```
ICNRG
Internet-Draft
Intended status: Experimental
Expires: October 3, 2015

Expires: October 3, 2015

C. Wood
PARC, Inc.
April 1, 2015
```

CCNx Manifest Specification draft-wood-icnrg-ccnxmanifests-00

Abstract

This document specifies the usage, format, and wire representation of CCNx Manifests.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

Internet-Drafts are working documents of the Internet Engineering



Manifests

Manifest

Name

Content Messages Catalog

Optionally encrypted

Aggregate Metadata

Optionally encrypted

Publisher Signature

