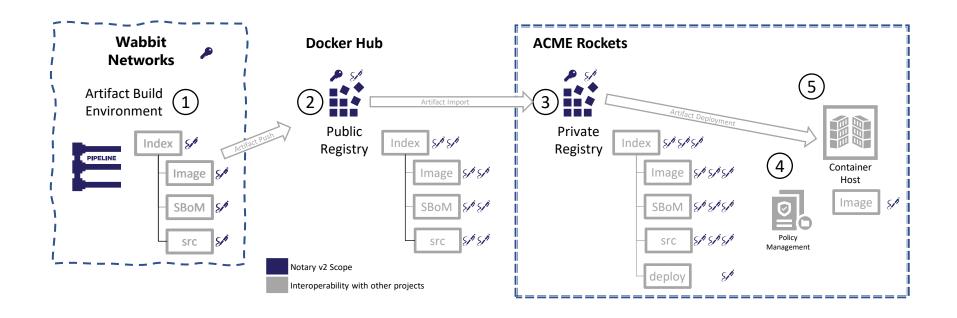
OCI Artifacts & Collections

OCI Weekly Call 9/30/2020



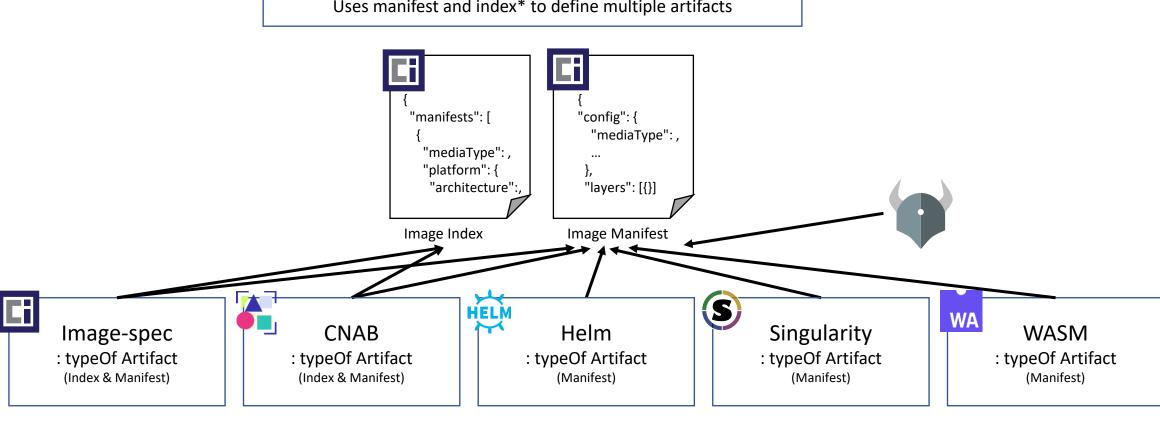
- 1. An entity authors content
 - signs their content with their key
- 2. Publish to a well-known location
 - May get certified by the aggregator
- 3. Consume the public content into an entity's private registry
 - Add a verification signature, attesting to its usage in the company
- 4. Policy management enforces which keys can be used for deployment, even what registries content can be pulled from
- 5. Only after all signatures and policies are verified can the artifact be deployed



Distribution-spec Implemented as a Registry

Artifacts-spec

Uses manifest and index* to define multiple artifacts



Distribution Persistence Types

Individual Types

- Container Images
- Singularity Images
- WASM modules
- Helm Charts
- Terraform
- Azure Resource Manager Templates
- AWS Cloud Formation Templates

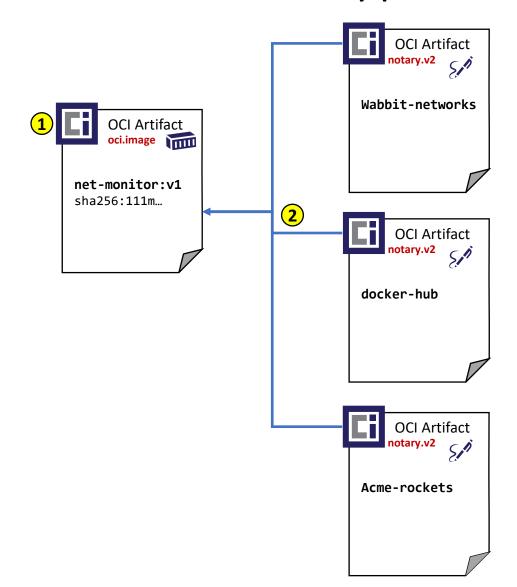
Collection Types

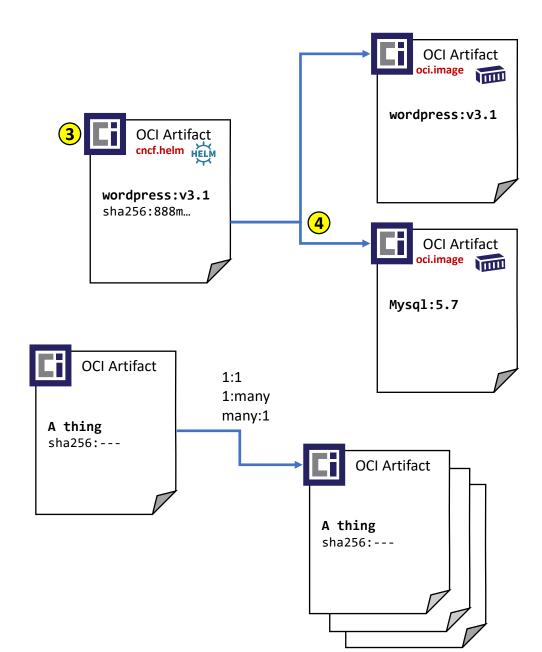
- Multi-arch index
- CNAB
- Signatures?

Artifacts that reference other artifacts

Not "collections" of artifacts, but a collection of references

Reference Types





Distribution Persistence Types

Individual Types

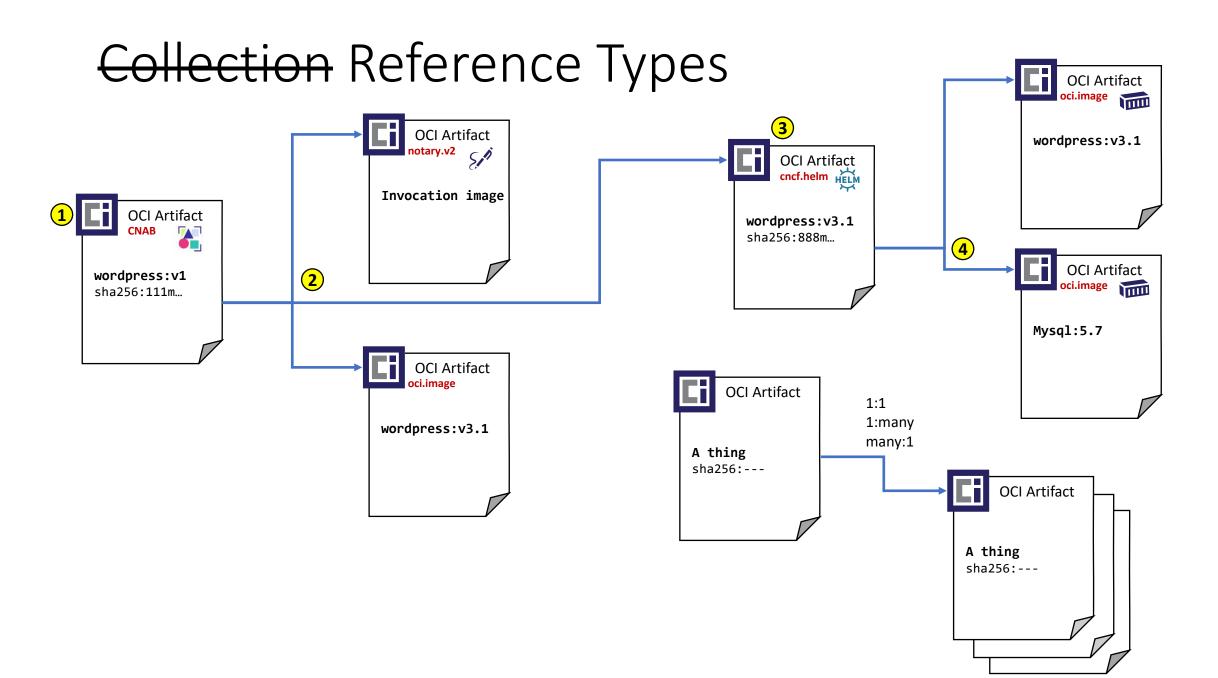
- Container Images
- Singularity Images
- WASM modules

Reference Types

- Signatures
- Helm Charts
- Terraform Templates
- Azure Resource Manager Templates
- AWS Cloud Formation Templates

Collection Types

- Multi-arch index
- CNAB



Distribution Persistence Types

Individual Types

- Container Images
- Singularity Images
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Reference Types

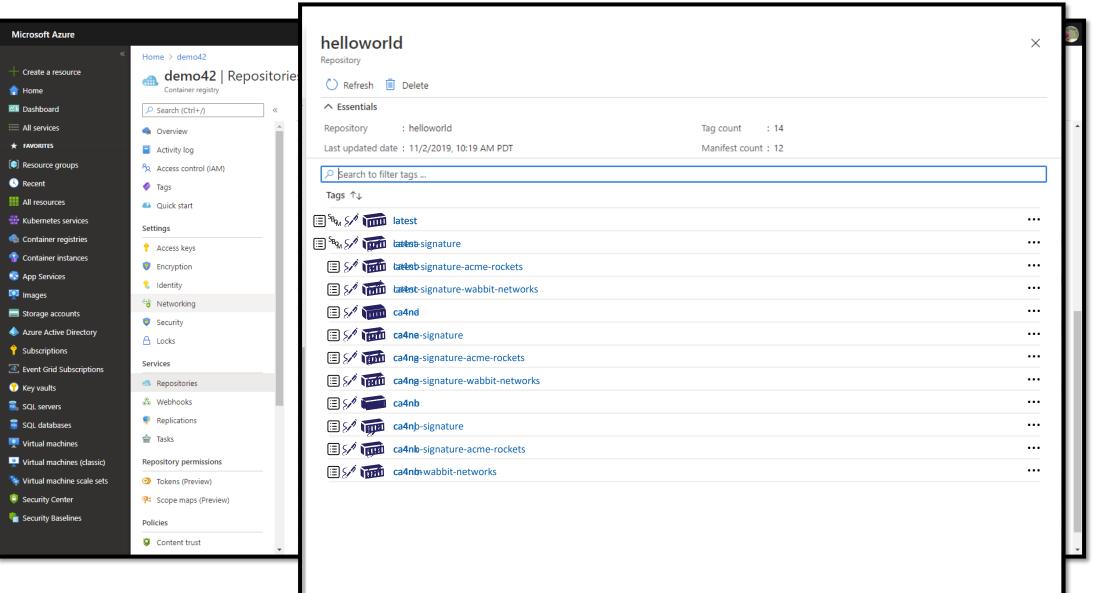
- Signatures*
- Helm Charts
- Terraform Templates
- Azure Resource Manager Templates
- AWS Cloud Formation Templates
- CNAB

Collection Types

Multi-arch index

Is a signature an Artifact, or an Attribute of an artifact?

What should be seen?



Distribution Persistence — Meta-data Services

Artifacts

- Container Images
- Singularity Images
- WASM modules
- Helm Charts
- Terraform Templates
- Azure Resource Manager Templates
- AWS Cloud Formation Templates
- CNAB

Meta-data

- Signatures
- SBoMs
- Vulnerability Summaries
- Hub –esque Docs/Descriptions
- LastTag
- TagHistory
- PullCount
- LastPullDate
- ExpirationDate
- DeployedTo

