



## Singularity Image Format - 5 min

---

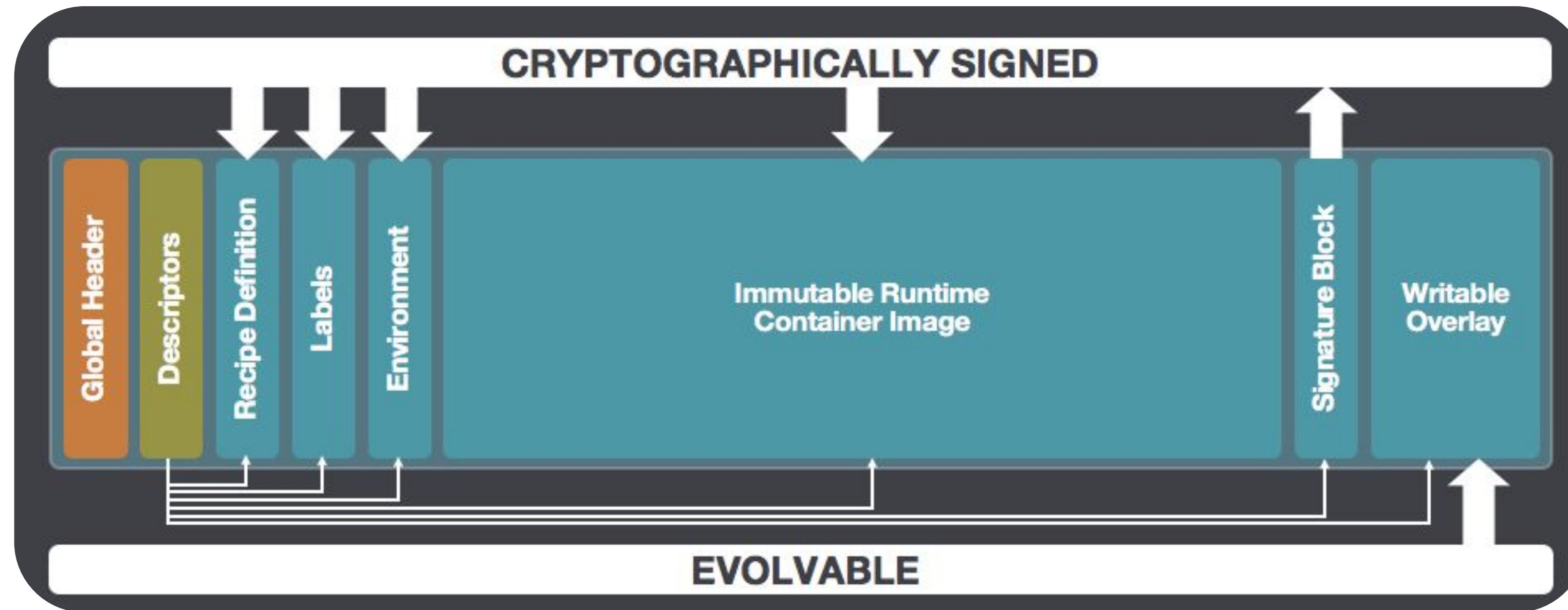
Michael Bauer - HPC Container Workshop ISC19

20 June 2019

## The Singularity Image Format (SIF):

- Single file runtime container
- Fully reproducible containers
- Optimized with shared file systems
- Immutable and Regulatory controls compliant
- Cryptographically signed and validated

# Singularity Container Format Features



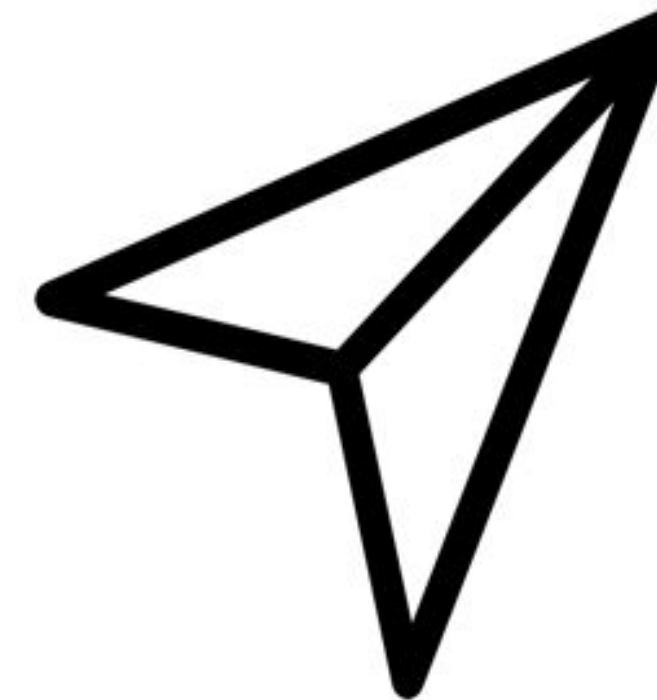
Guaranteed Reproducible

Encrypted

Mobile

Controls Compliant

$X = X$



Singularity container images are **immutable**, **cryptographically signed**, and **verifiable**, ensuring absolute trust and bit for bit reproducibility of the container environment.

*Note: Singularity uses no tarballs and thus no unsigned intermediate data*

```
$ singularity sign container.sif
```



```
$ singularity verify container.sif
```