mojaloop foundation

Deployment & Infrastructure

What deployment, where, why, how?

Thinking and work in progress…

Mojaloop Deployment Strategy

The strategy so far has been to allow the community to develop, maintain and support a variety of deployment methodologies and tools that suit their particular usecases, this has pros and cons:

- More options may become available to potential adopters; having lots of options means it is more likely that one will more closely fit a particular adopters needs.
- Community members can bring and showcase their particular areas of competence (supporting community business models)
- Potential for efforts and focus to become fragmented

Mojaloop should be vendor independent with minimal requirement for “big-tech” pay-to-play solutions

Mojaloop should ideally target low cost, low barrier to entry application deployment, operations and maintenance patterns.

Mojaloop Deployment Strategy

Currently envisaged deployment use cases

- **Curious experimenter**
- **Developer / Contributor**
- **CI environment**
- **Public Cloud**
  - Mono-cloud (PoC and **PRODUCTION QUALITY**)
  - Multi-Cloud/Cloud-Exit (PoC and **PRODUCTION QUALITY**)
  - Hybrid-cloud (PoC and **PRODUCTION QUALITY**)
- **On-premises**
  - Private cloud (PoC and **PRODUCTION QUALITY**)
  - Bare metal (PoC and **PRODUCTION QUALITY**)
  - Hybrid-cloud (PoC and **PRODUCTION QUALITY**)

Mojaloop Deployment Strategy

Currently supported (with available open-source community artefacts) deployment use cases:

- **Curious experimenter** (miniloop / docker-compose)
- **Developer / Contributor** (miniloop / docker-compose)
- **CI environment** (miniloop / docker-compose)
- **Public Cloud**
  - Mono-cloud (**IaC AWS**, Azure marketplace)
- **On-premises**
  - *Bare metal, work in progress (evolution of vendor agnostic IaC, presented last 2 convenings).*
  - **On-premises is currently the highest priority scenario for the Mojaloop Foundation as the current list of potential adopters have all indicated this is their preferred mechanism. Regulation is believed to be a primary driver of this.**

Mojaloop Deployment Strategy

Overarching concerns:

Kubernetes: adopted early on as seen as the most flexible and portable deployment platform that would, in theory, support all deployment scenarios envisaged at the time.

However, kubernetes is not the end of the story:

“One does not simply install kubernetes, run helm and have a production quality mojaloop”. [James Bush, 2023]

How do I install Mojaloop?

Assertion: Although some documentation is available, it is hard for adopters to quickly understand which deployment options are available, and which is best suited to their needs.

I believe we should address this by:

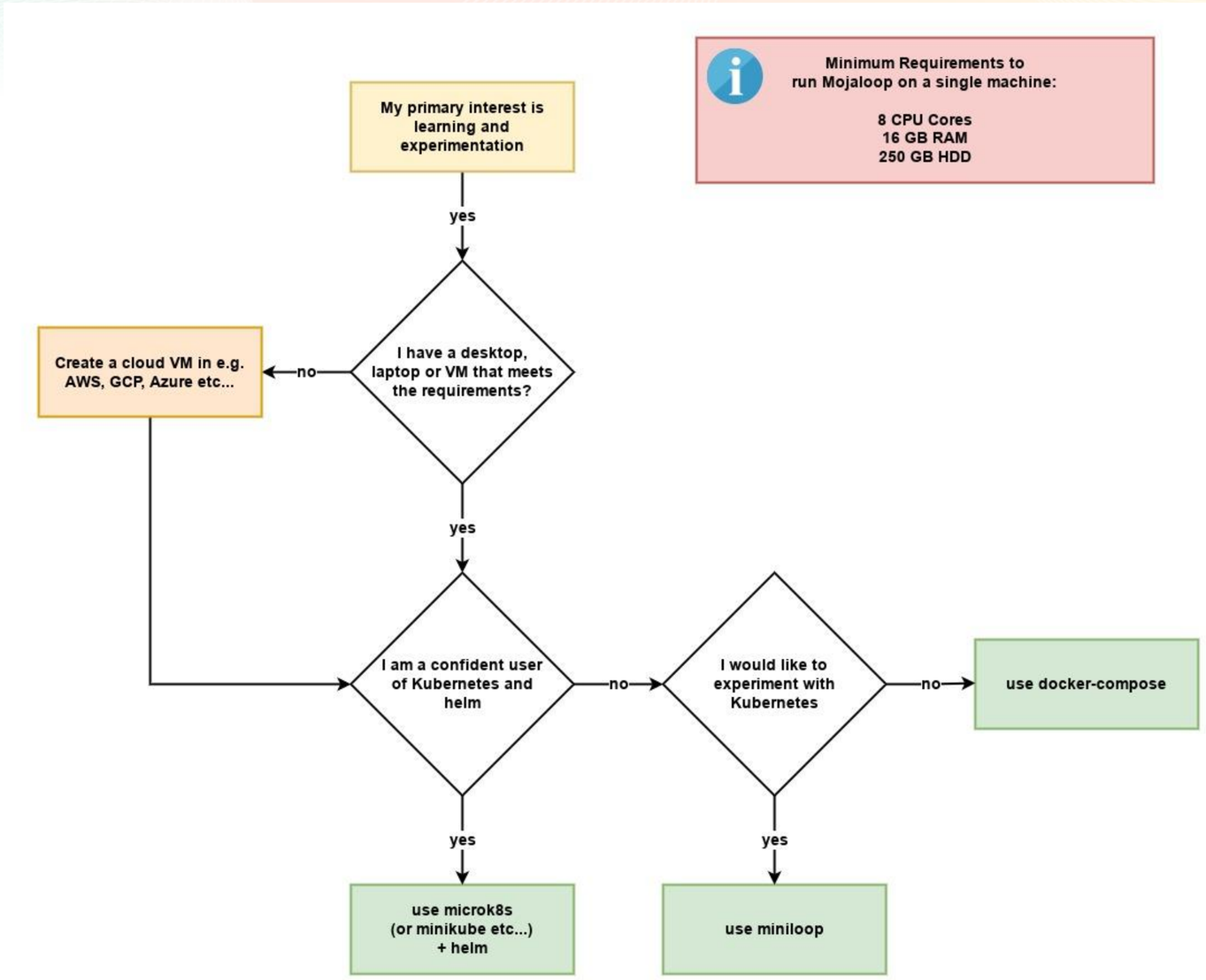
1. Providing a high level “map” of Mojaloop deployment options.
2. Providing additional deployment focused documentation for each scenario, as necessary, to enable self-service style deployments, including for production quality situations.*

* Commercial support arrangements may be appropriate for business critical deployments

How do I install Mojaloop?

Work in progress:

1. Deployment options flowcharts
2. On-premises hardware recommendations (production quality)
3. On-premises Kubernetes deployment guide (production quality)



Q&A

Questions?

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find me on mojaloop slack

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