Support for On-Premises Deployments

Workstream Status
June 2024

Workstream Update

Workstream Name:	Support for On-Premises Deployments
Roadmap Pillar:	Pillar 1: Make adoption easier
Lead:	James Bush
Workstream Objectives:	To make the process of deploying and maintaining Mojaloop software in private data centres reliable, quick, easy and cheap
Progress Against Objectives:	● On-Premises deployment enabled and self-serve documentation produced ● IaC control centre migration in progress
Anticipated Progress by PI End:	No significant progress expected due to committed resource limitations
Roadblocks:	Resource limitations: Committed resources from community and adopters
Support Needed:	Engineers with infrastructure and IaC experience (specifically open-source DNS solutions and terraform)

Workstream History

- For reasons of efficiency, cost minimisation and convenience, much of the early Mojaloop software development and testing process was performed in public cloud infrastructure.

- Current and upcoming Mojaloop operating environments require private data centre infrastructure.

- Efforts have successfully added capability to the Mojaloop deployment and maintenance tools (IaC) for private data centre scenarios.

- Work continues to streamline and enhance this capability further

Workstream Objectives

To make the process of deploying and maintaining Mojaloop software in private data centres reliable, quick, easy and cheap.

- Enable starting small to minimise initial capex but with cheap unit cost to add capacity as traffic grows
- No license fee technology in the tool set
- Facilitate "carrier grade" security, reliability and resilience
- Support well known, tried and tested components and infrastructure patterns

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On Premises Workstream Highlights

- Self-serve IaC install documentation being iterated
- Work in progress eliminating last few remaining control centre cloud dependencies (DNS Route53 - in progress)
    - Enables fully air-gapped on-premise Mojaloop deployment

On Premises Workstream Next-Steps

- Complete removal of last remaining cloud dependencies from IaC control centre

- Continue to iterate installation and maintenance documentation

- Continue to support existing on-premises deployments

- Continue to support upcoming on-premises deployments

Grateful thanks to all contributors!

Reach out to participate

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- Mojaloop Slack: #on-premises-deployment