



Mojaloop Fintech sandbox

Mojaloop PI-21 community event

Rwanda, March 2023

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PI-20 Contributors

- David Fry
- Miguel de Barros
- Miller Abel
- *Orion Systems*
- Paul Baker
- Paul Makin
- Paula Hunter
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- Vijay Guthi
- Warren Carew
- *WiredIn*

PI-21 Workstream Readout

Summary



Workstream Name:	Fintech Sandbox
Roadmap Pillar:	Make adoption easier (Pillar # 1)
Lead:	
Workstream Objectives:	<ol style="list-style-type: none"> 1. Deploy a Mojaloop sandbox v14.1.0 (or greater) using IaC (access approved by MLF) 2. Strategy for connectivity to fintechs, MLF product users and hackathon participants 3. Onboard at least one fintech for a PoC demonstration 4. Maintenance of the sandbox for refreshing versions, upgrades
Progress Against Objectives:	<ol style="list-style-type: none"> 1. Mojaloop sandbox with v14.1.0 deployed using IaC 2. Access approved / requested to two SI/s fintechs by ML Foundation and provided 3. Onboarded fintech(s) to the Fintech Sandbox 4. Maintenance of the sandbox for refreshing versions, upgrades
Issues:	
<i>(If not completed)</i> Plans for Next PI:	Goals for next PI: <ol style="list-style-type: none"> 1. Accessibility of sandbox (self-service portals if feasible or another scalable model) 2. Refresh sandbox with latest Mojaloop release (v15.0.0) 3. Cost optimizations (scripts to spin-up, shut-down as needed and narrow down footprint; define scenarios to have smaller footprint for low usage scenarios) 4. Document capabilities of tools in the Mojaloop ecosystem (IaC, Miniloop, ML Toolkit).

Mojaloop Fintech sandbox PI-20

Goals for PI-20

1. Deploy a Mojaloop sandbox **v14.1.0** (or greater) using IaC (with access approved by ML Foundation).
2. Strategy for **connectivity** to fintechs, MLF product users and hackathon participants
3. Onboard at least one **fintech** for a PoC **demonstration**
4. Maintenance of the sandbox for refreshing versions, upgrades

Description:
Deploy Mojaloop into a sandbox environment.
Develop processes for onboarding fintechs.

Owner:
JoPACC (Moayadd)
Sam Kummy

Resource Commitments:
Sam (deployment etc)
Miguel
David
Tom

Simeon to reach out to: DFS Lab, ccHub, Uganda (HiPipo)

Definition of Done:

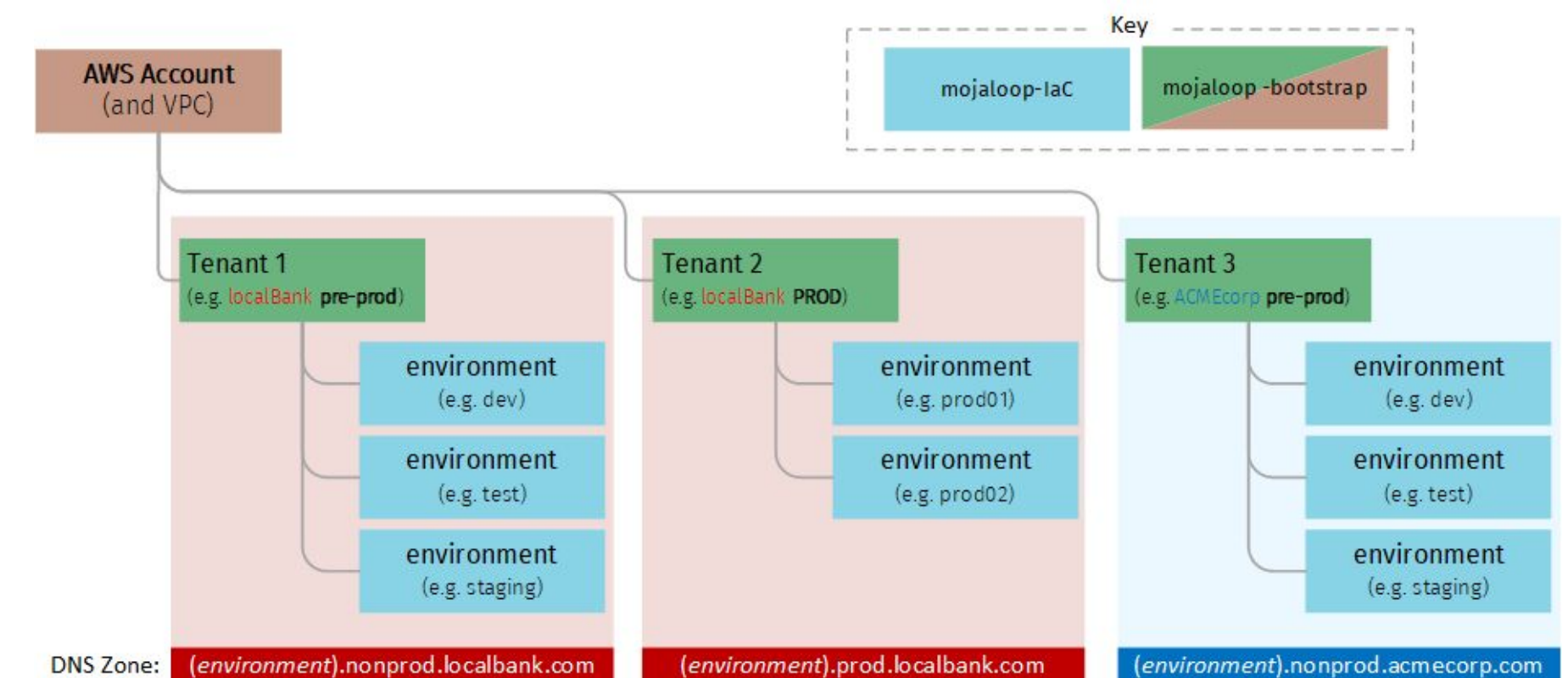
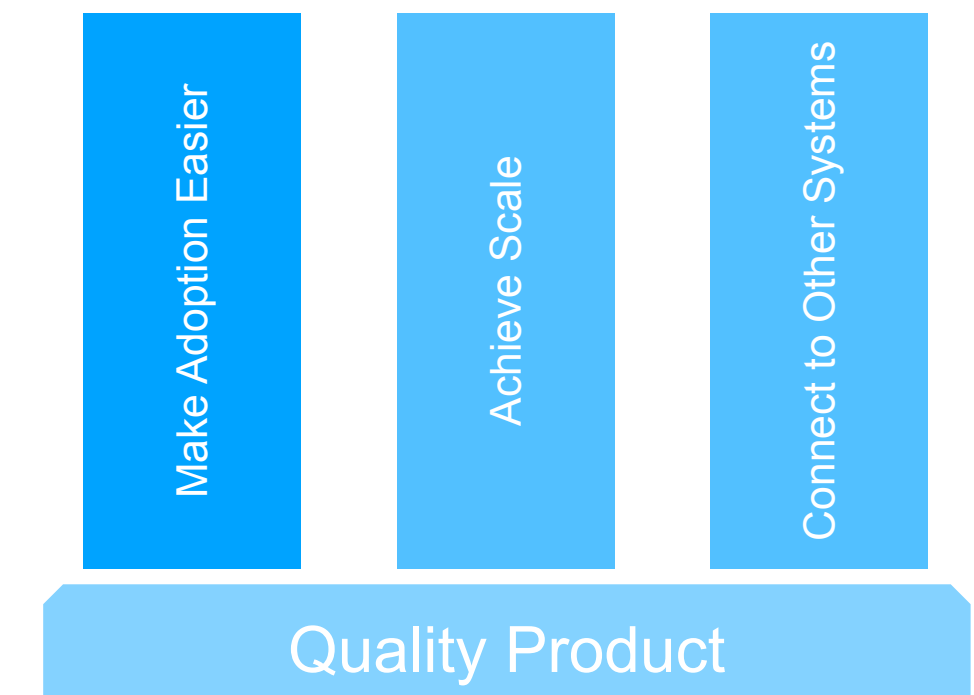
- 1) Deploy a Mojaloop v14.1.0+ (v14.1 or greater release) on MLF AWS account using IaC with access to core team members, ML Product (and potentially select group of users on a need basis for Mojaloop hackathons, workshops).
- 2) Work on strategy for connectivity to fintechs, MLF Product users for using and demonstrating P2P, Bulk and Third-party use cases
- 3) **Get at least one fintech onboard; support them in building a service PoC. Demonstrable.**
- 4) Maintenance of the Fintech Sandbox for patches, upgrades or new releases

Fintech sandbox Status

Updates

1. Sandox deployed using IaC on MLF AWS (initial deployment on v13.1.1)
2. Deployed a **fintech-sandbox** with latest stable release **v14.1.0** (using IaC v3.0.2)
3. Refreshed to support Mojaloop Testing for helm charts (such as for SDK) to support adoption
4. Access approved for two Rwanda SIs / Fintechs - **Orion systems** and **WiredIn**

mojaloop



Fintech sandbox features

1. Use-cases: P2P, Bulk, 3PPI, Settlement, RTP
2. Deployed using **laC** (Tech support dashboard, pipelines, traceability, history)
3. **VPN** for hub access
4. **FSP Simulators** for specific scenarios (pm4mls)
5. Gateway: WSO2
6. Finance **Portal** with **RBAC**
7. **Reporting** Engine
8. **Security**: support for mTLS, JWS, ILP (vault, key/secret management)
9. Support for **onboarding**
10. **UIs**: Finance Portal, ML Toolkit, UI of simulated FSPs (pm4ml UIs)



Fintech sandbox

Overview / Demo by Alain (WiredIn)

Mojaloop Fintech sandbox - roadmap

Goals for PI-21

1. Provide (scalable method) **access** for onboarding fintechs
2. Test, validate latest Mojaloop releases (for this PI - **v15.0.0**)
3. Cost optimization methods (scripts, narrow down services needed)
4. Document capabilities of tools in the Mojaloop ecosystem (IaC, Miniloop, ML Toolkit).



Thank you!