

[WiP] Design Proposal for Evolution - NMR

Status	WIP
Stakeholders	
Outcome	
Due Date	
Owner	
Solution/Domain/Data Architect	OLIVEIRA, Tiago

- Background
 - Laboratory Architecture - Building Blocks
 - NMR workflow & application context
- Questions/Concerns
- Scenarios/Use Case
- Technical and Functional Assumptions
- Sensitivity Points
- Risks
- Non Risks
- Architectural Approaches
 - Target Architecture
- Trade-offs (alternatives)
- Conclusion
- References
- Meeting Notes

Background

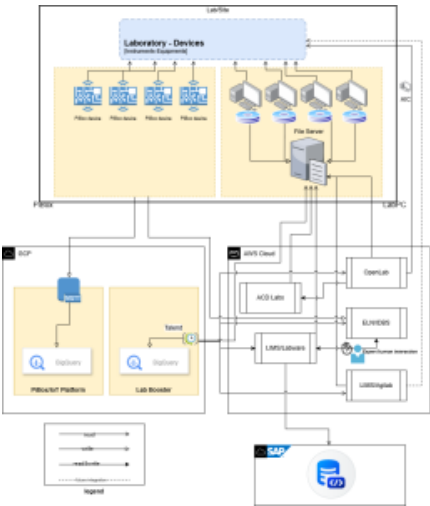
In the new ACD Labs Harmonization strategy, *tbd*

ACD Labs offers an opportunity to assess a license for deploying the solution in the cloud, where new features capabilities would be also available.

Today there are several deployments across sites globally in the company.

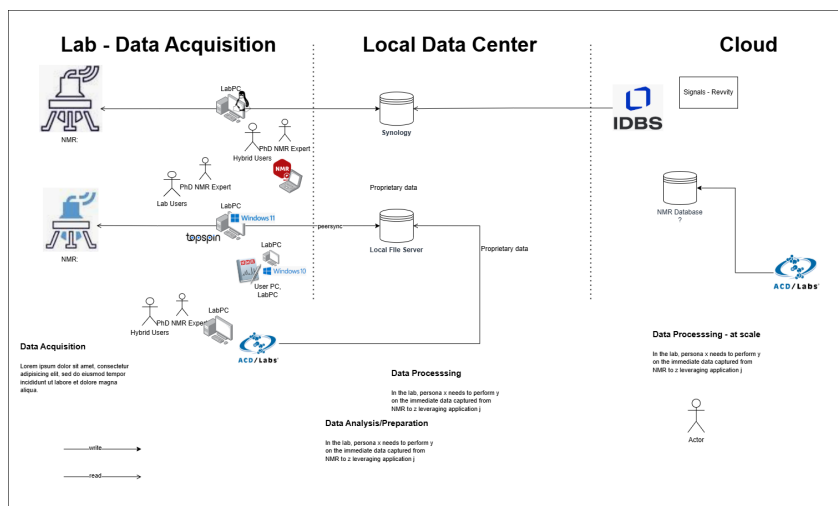
Goals: Rationalization of apps, centralize ACD Lab deployments...

Laboratory Architecture - Building Blocks



NMR workflow & application context

WiP



Questions/Concerns

1. Cloud provider strategy:
2. China/Shanghai: In case of Azure being the best fit as cloud provider for this deployment, Shanghai site can be also covered by leveraging Azure [21Vianet](#) local partner.

Scenarios/Use Case

1. Instrument-application dependency on Windows 10 OS
2. Instrument-application dependency on Linux OS and Synology storage (instead Local File Server)
3. Large file generation to manage for specific purposes: immediate usage, long term storage, complex analytics at scale, global NMR database

Technical and Functional Assumptions

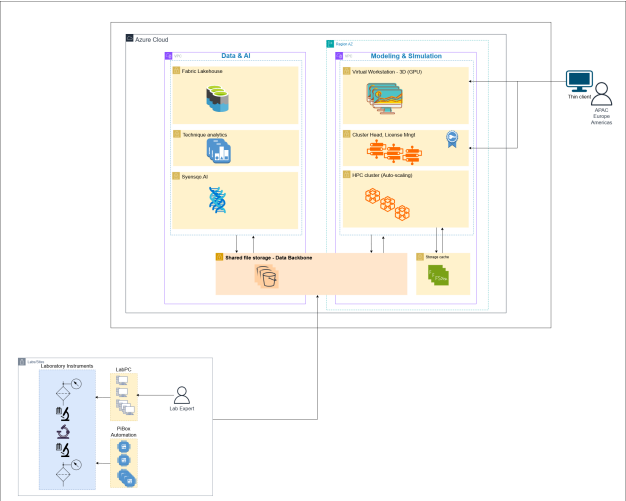
Sensitivity Points

Risks

Non Risks

Architectural Approaches

Target Architecture



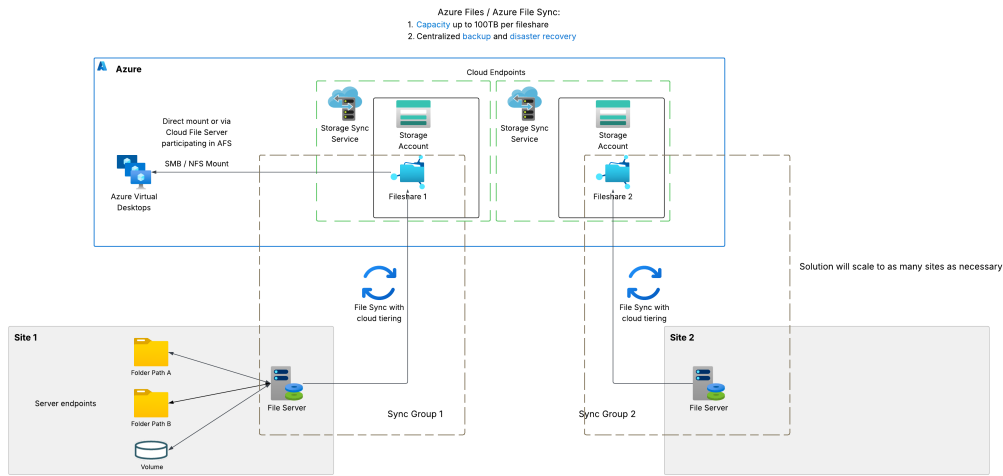
Trade-offs (alternatives)

Alternative 1 - ACD Lab

Alternative 2 -

Alternative 3 -

TBD



Data Synchronizer Architecture - LabPC to the Cloud

Evaluation Matrix

	Architectural Approach			
1	Alternative/Evaluation Vector		Alternative 1 -	Alternative 2 -
2	Technical Debts	Paid		
		Added		

3	Major Work Block				
4	Performance				
5	Scalability				
6	Consistency				
7	Deployability				
8	Interoperability				
9	Resource - Cost Efficiency				

Conclusion

References

Meeting Notes