

Confidential Al inference in practice: What's required and how to implement it

2024-03-17

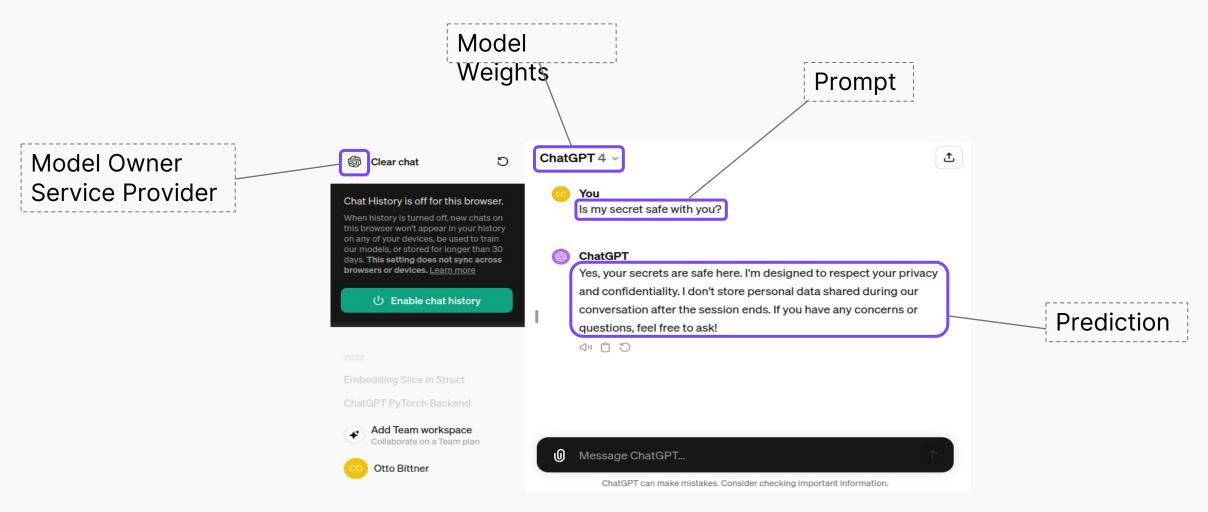
Otto Bittner

Open Confidential Computing Conference

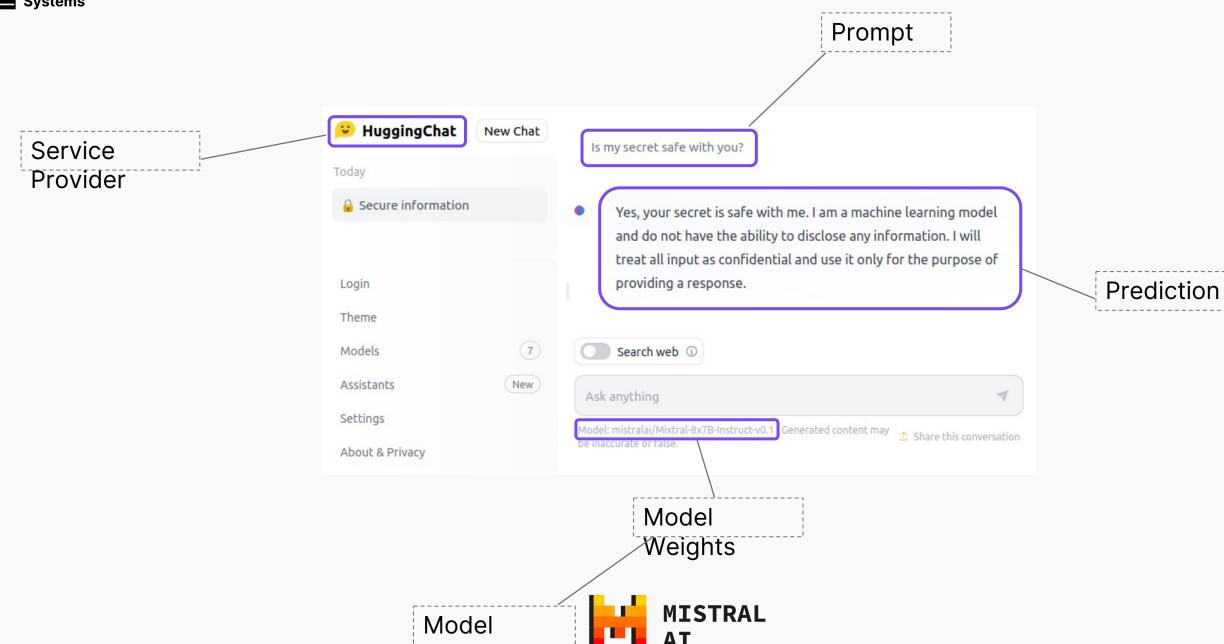


Challenge







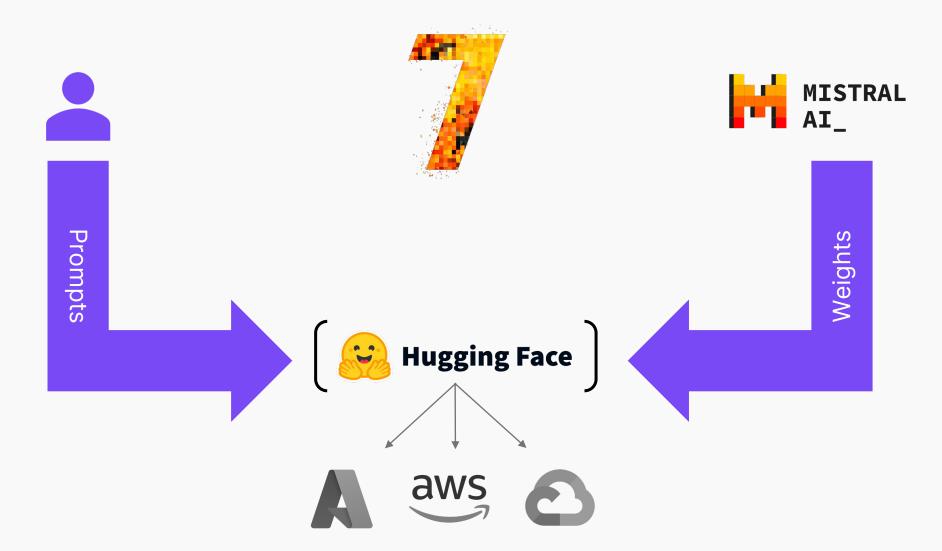


Owner

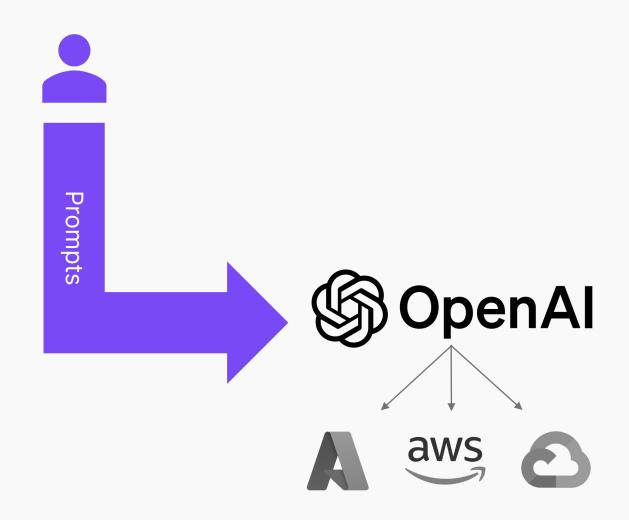
Company logos are used for illustrative purposes only.

Challenge?

Challenge



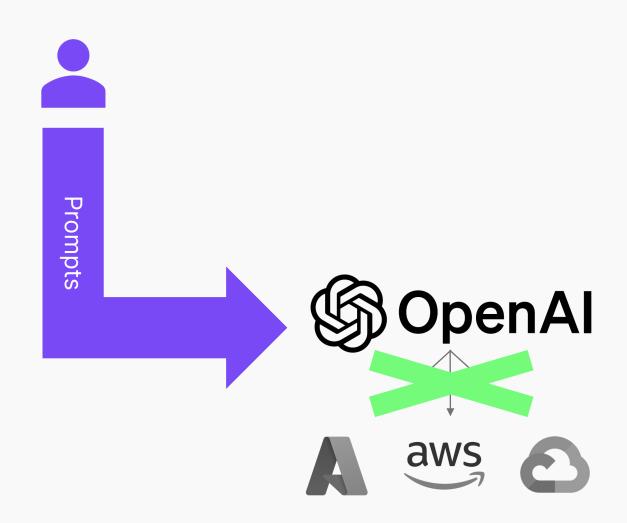
Challenge



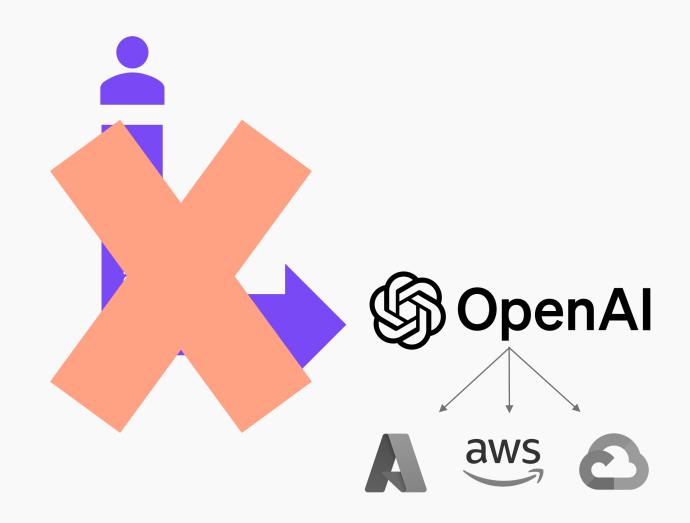


Goals

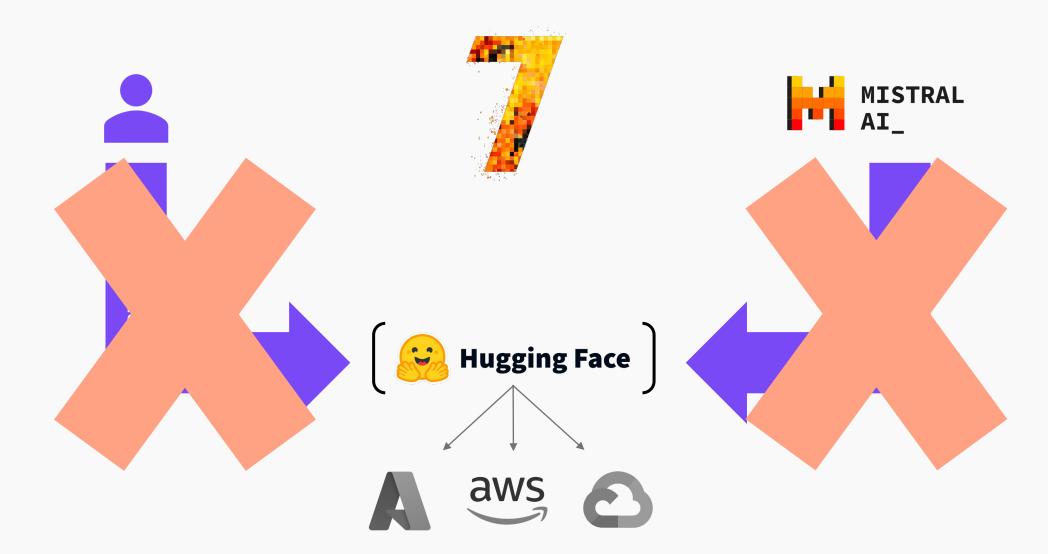
Goal #1



Goal #2



Goal #3



Goals - specific

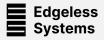
 A service provider should have neither access to prompts nor weights

 An infrastructure provider should have neither access to prompts nor weights

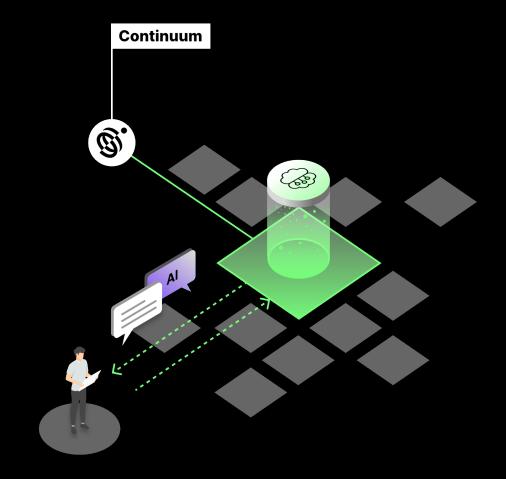


Solution



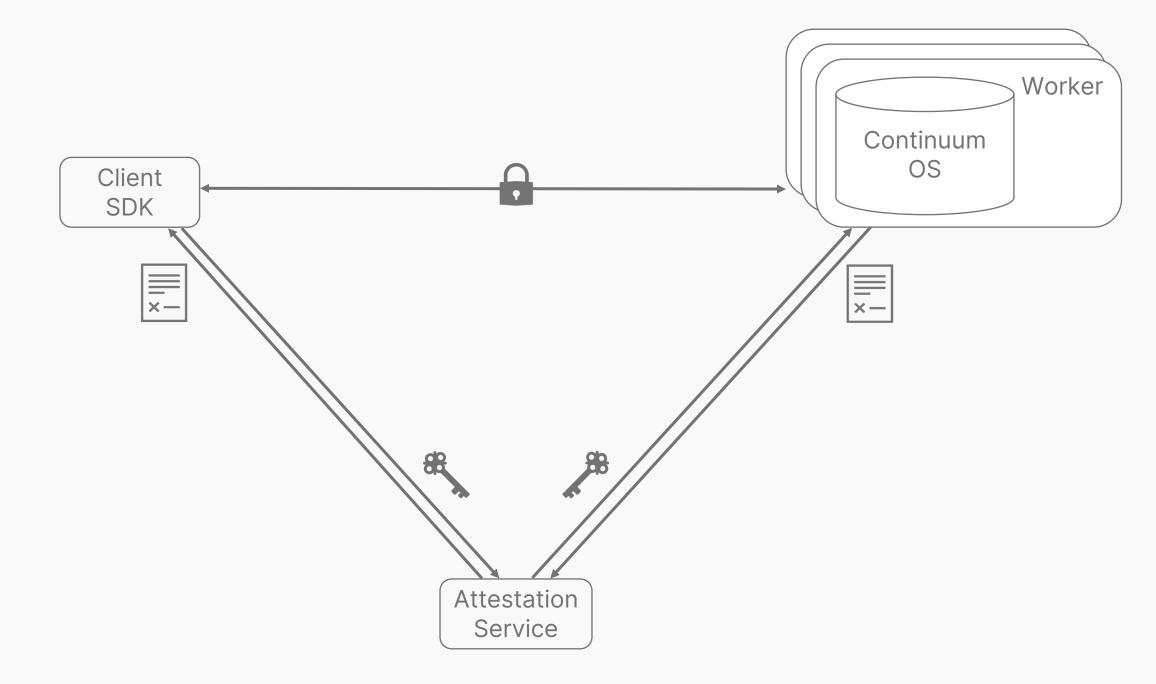


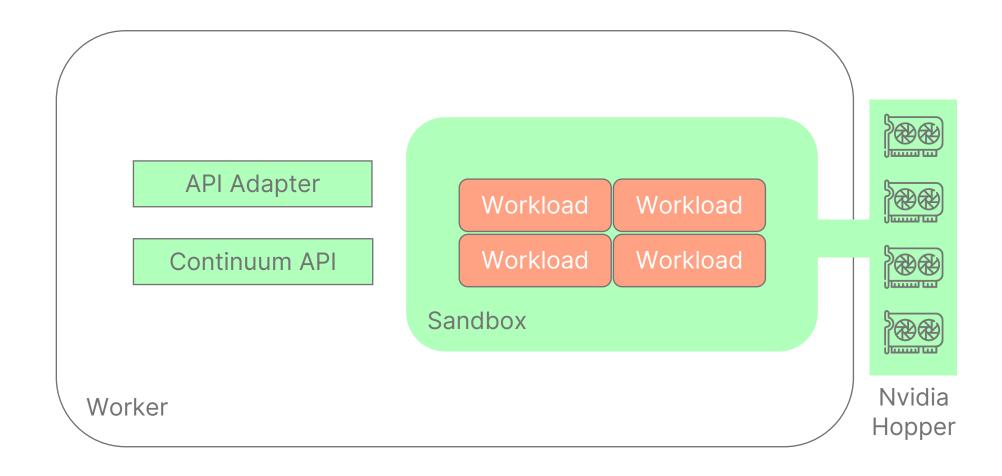
Continuum

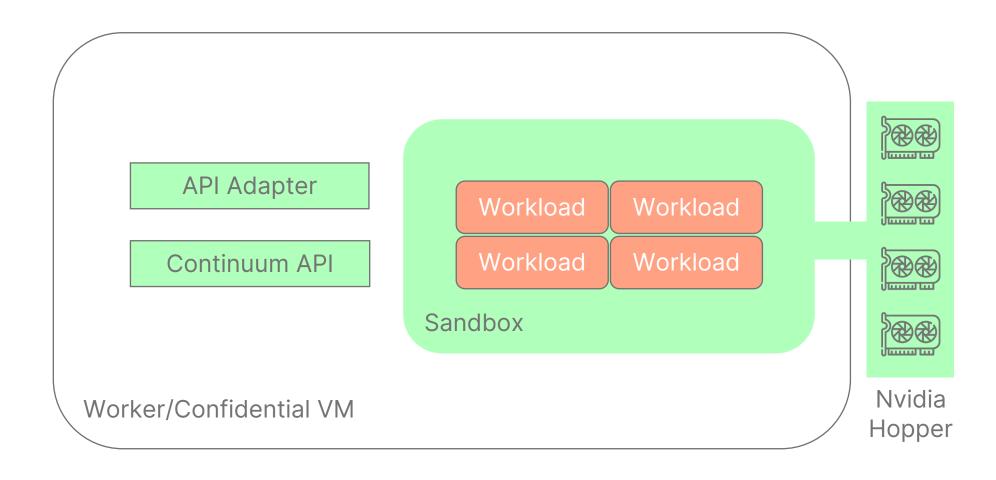


Implementation



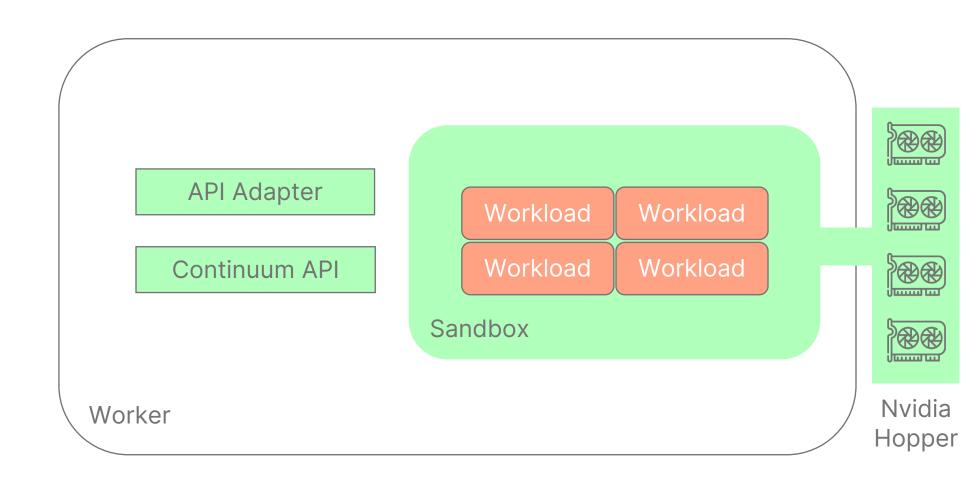






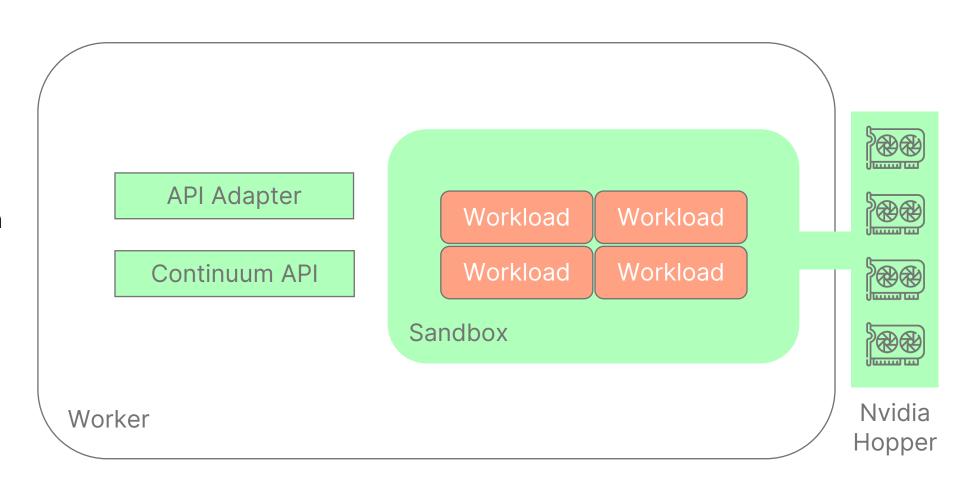
Sandbox prevents:

- Network access
- Persistent storage access



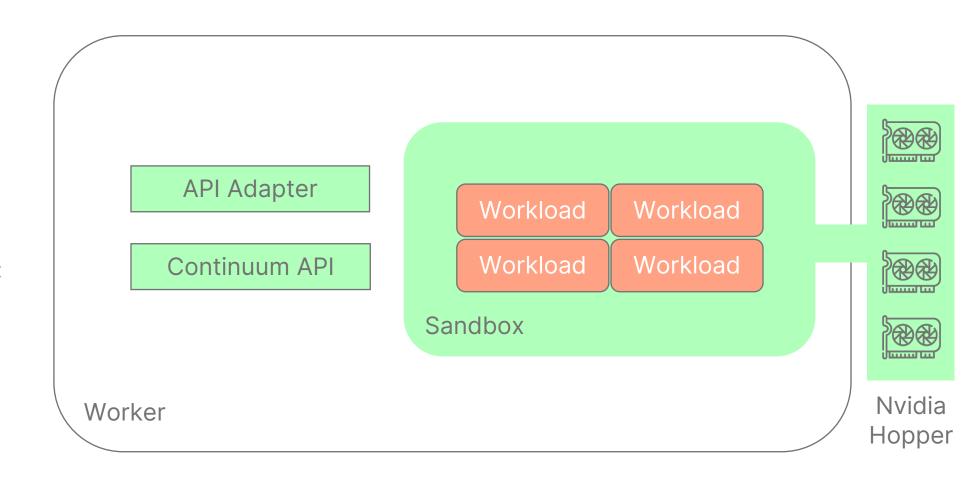
API Adapter provides:

- Transparent encryption



Continuum API provides:

- Deployment API
- Secret management
- Remote attestation





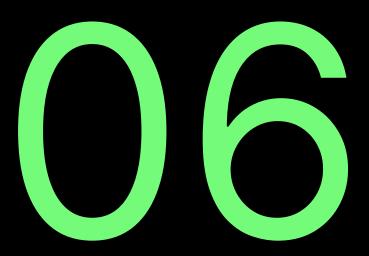
Demo



Encryption Secrets

Choose File no file selected





Outlook

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- Working with early partners for evaluation
- More Client SDKs
- Open source release in Q2/24.



Thank you!