



**MARINE CORPS TACTICAL SYSTEMS SUPPORT ACTIVITY**

*Make Marines More Capable*



# MCTSSA GPT

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## The Bottom Line...

MCTSSA GPT quickly identifies trends that threaten mission success.

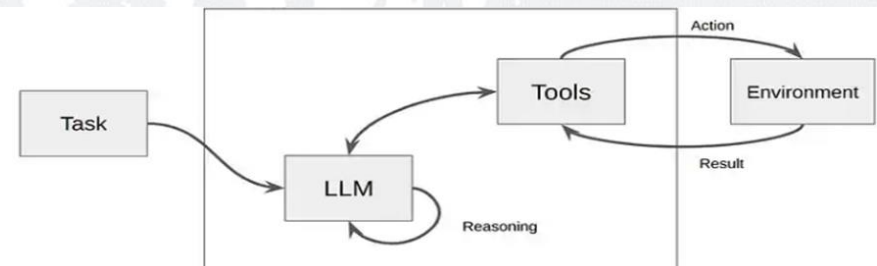


- Background:
  - In January 2024, USMC Service Data Office (SDO) reached out to MCTSSA regarding a high-priority use-case for the Marine Corps Center for Lessons Learned (MCCLL).
  - MCCLL collects and analyses After Action Reports (AAR) from Marine Corps units to apply the lessons learned in the past to the future force.
  - MCCLL publishes bi-annual Trend Reports based upon yearly AAR data and answers Requests for Information (RFIs) from USMC units.
  - MCCLL AAR data are contained in structured and unstructured formats.
- Problem Statement:

AAR Trend Reports and RFI Responses are resource intensive. SDO requests a system that can assist MCCLL in Trend Report and RFI Response production.



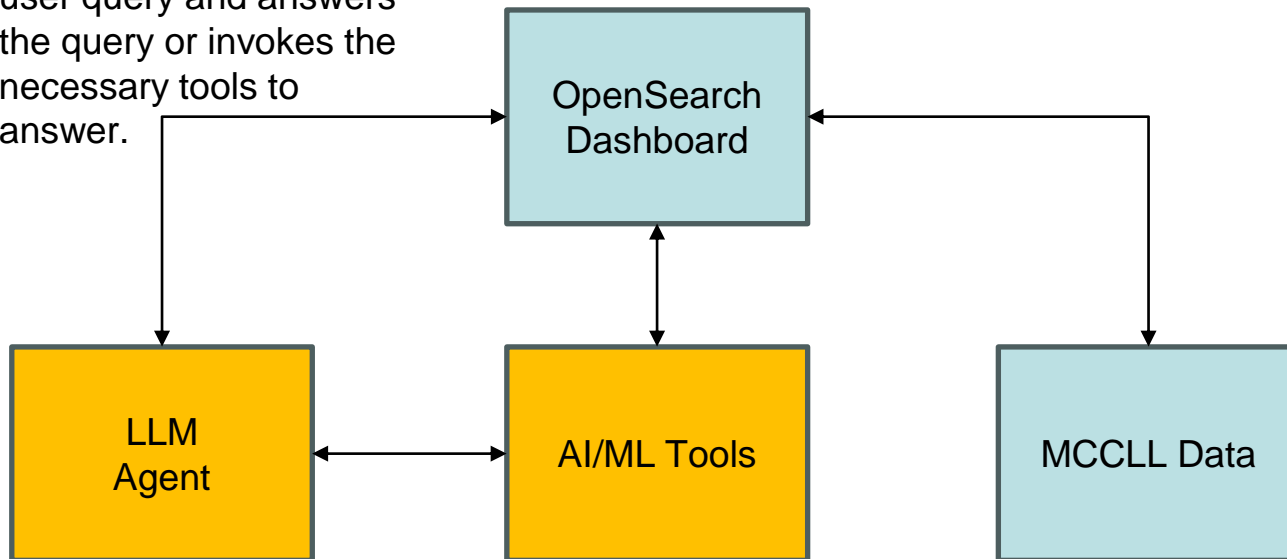
- MCTSSA Solution:
  - Use a combination of open-source software and LLMs to provide MCCLL a cost-effective solution to rapidly identify trends in AARs.
  - MCTSSA GPT, based upon OpenSearch and open-source LLMs, will enable MCCLL analysts to rapidly create trend reports and answer RFIs.
  - MCTSSA GPT enables the end user to communicate with structured and unstructured databases while leveraging OpenSearch data analysis tools.
  - IATT approved April 2024.
  - Currently building system infrastructure on the MCEN via Microsoft Azure Government Cloud.





1. User queries the Agent and awaits response

2. Agent reasons through user query and answers the query or invokes the necessary tools to answer.

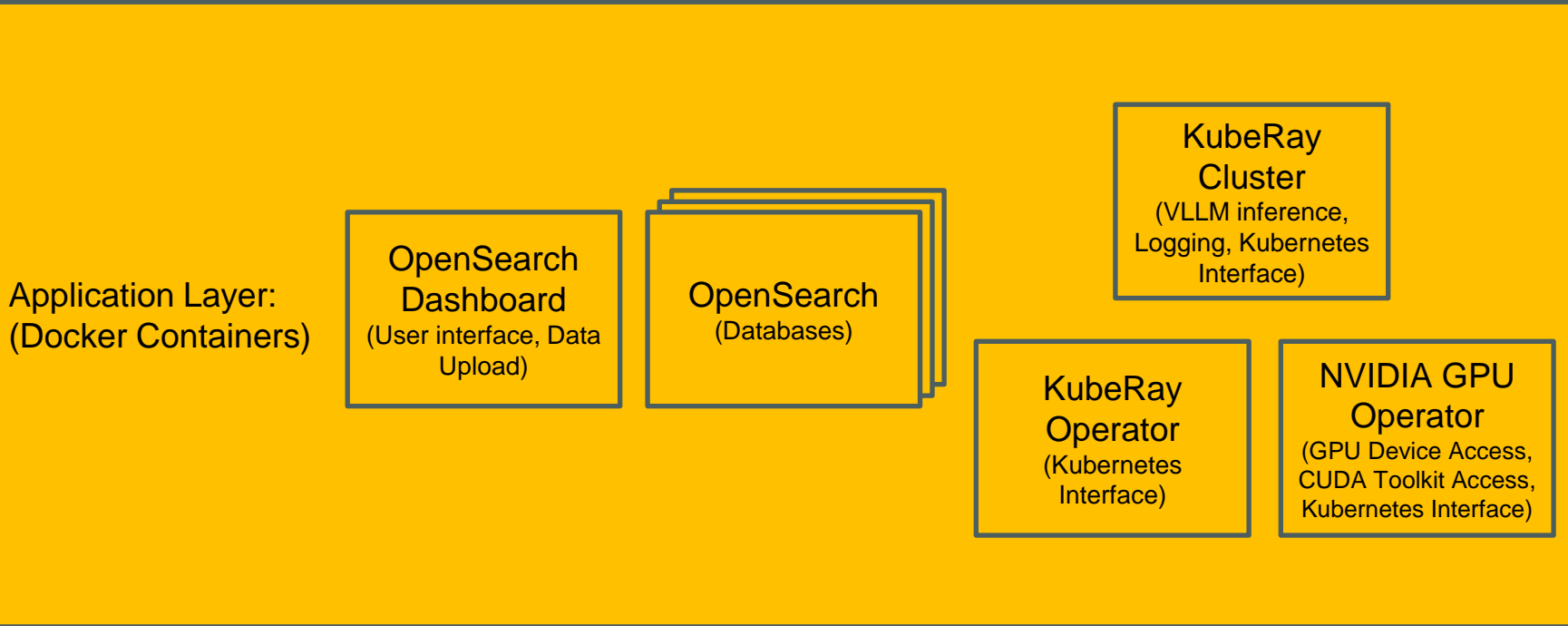


3. Tools perform their specific tasks and return the results to the Agent.

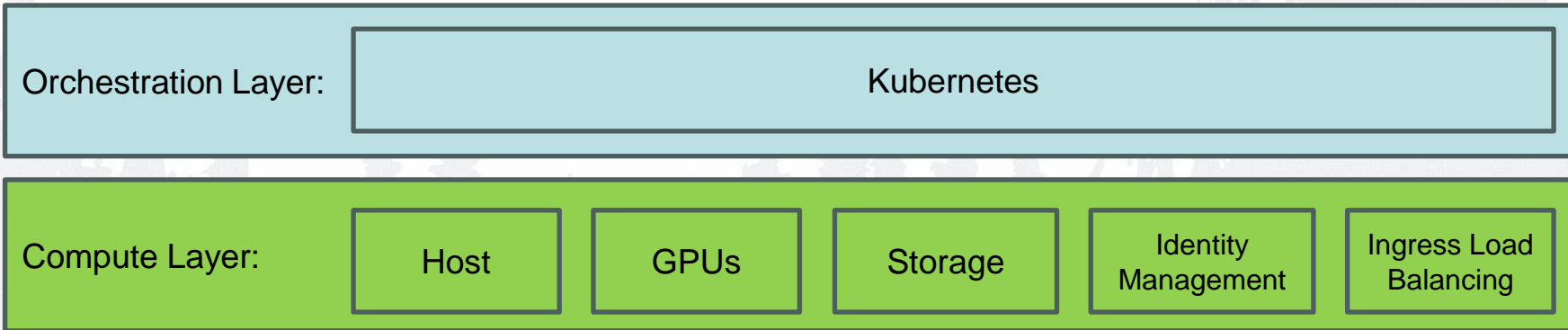




Application Development

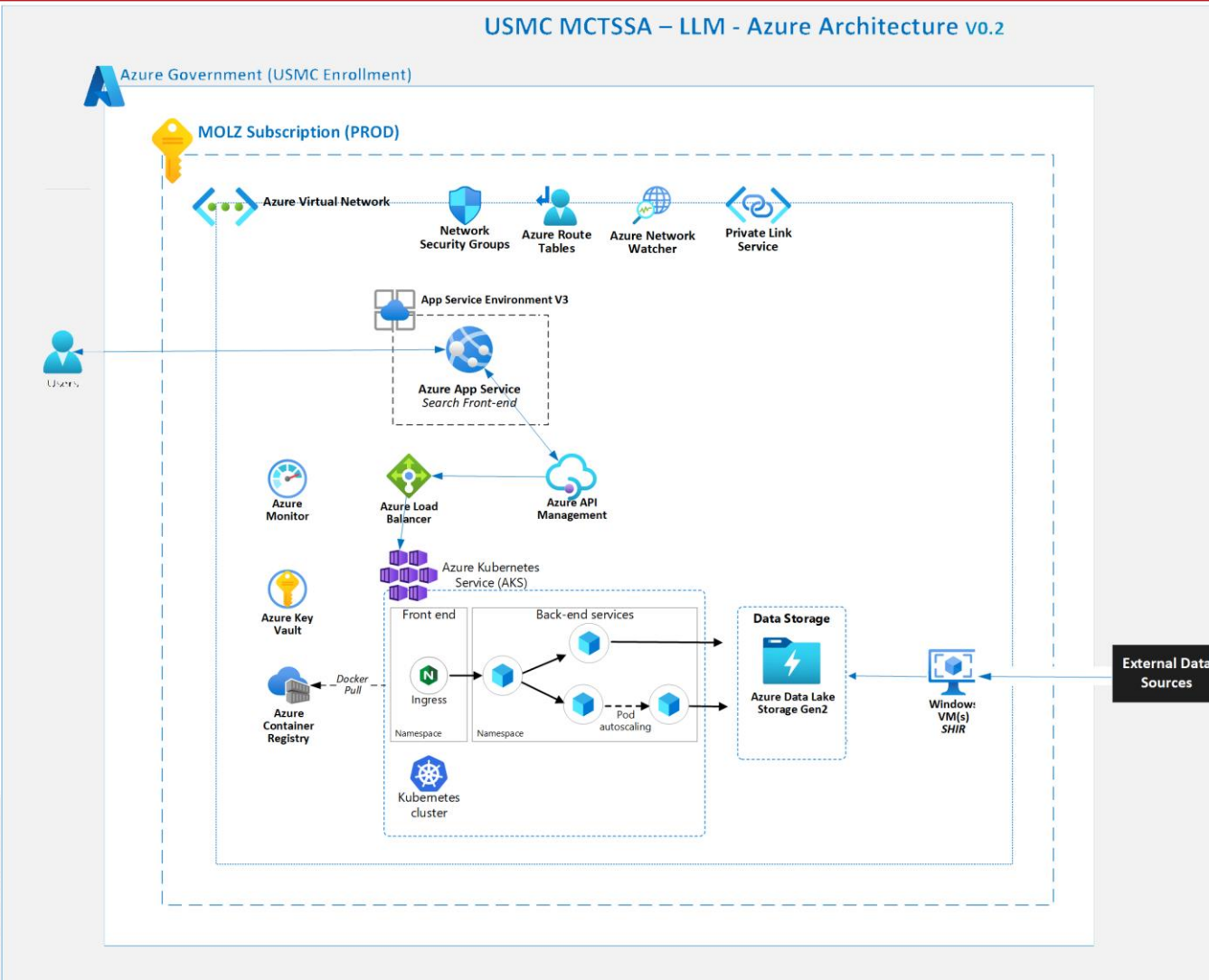


Infrastructure





USMC MCTSSA – LLM - Azure Architecture v0.2





## In Summary...

MCTSSA GPT enables trend identification and analysis in minutes instead of months.





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# Questions?

