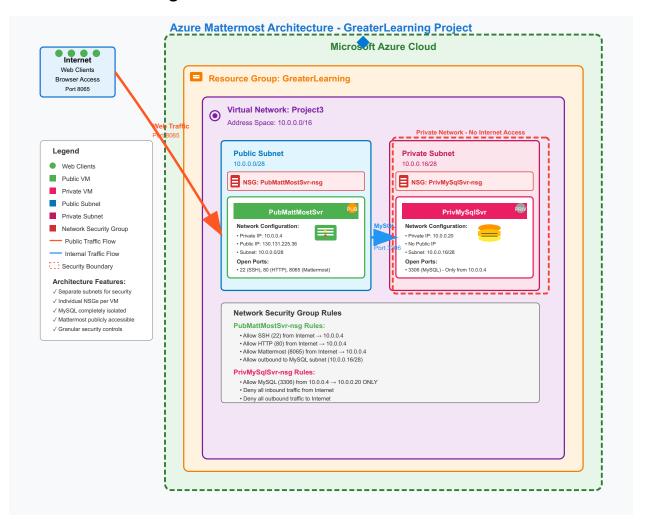
Patrick Jones 9/8/2025

MatterMost Project

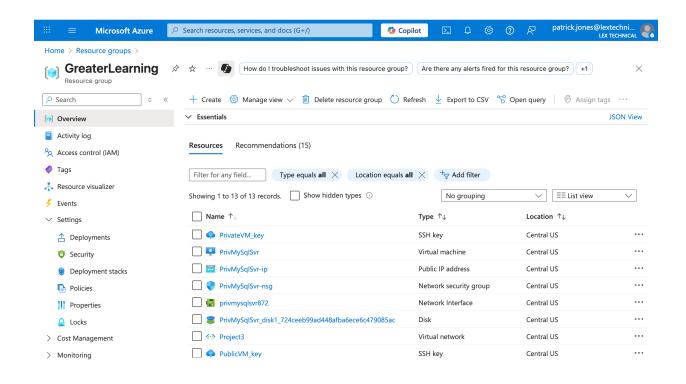
- deploying a team communication platform using Azure services

- architecture diagram



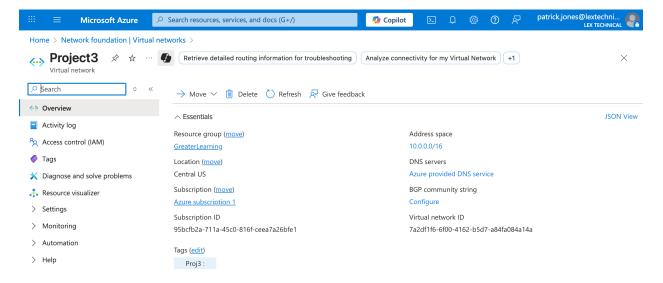
Resource Group (Greater Learning)

- Greater Learning resource group organizes azure resources for the MatterMost Project.



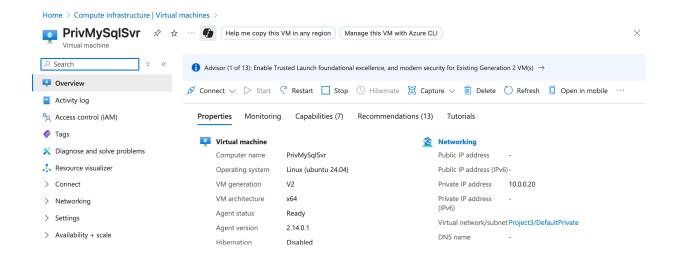
Virtual Network (Project3)

- created for isolated network segment 10.0.0.0/16



Create VM (PrivMySqlSvr)

- mysql host for mattermost database
- network security group: PrivMySqlSvr-nsg
- subnet 10.0.0.16/28
- listening on ports 3306, only from 10.0.0.4
- lan: 10.0.0.20



- install mysql server on PrivMySqlSvr
- create mattermost db

- create user: mmuser

Create VM (PubMattMostSvr)

- mattermost public web host

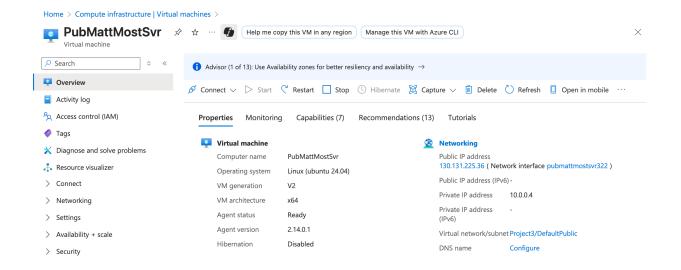
- network security group: PubMattMostSvr-nsg

- subnet: 10.0.0.0/28

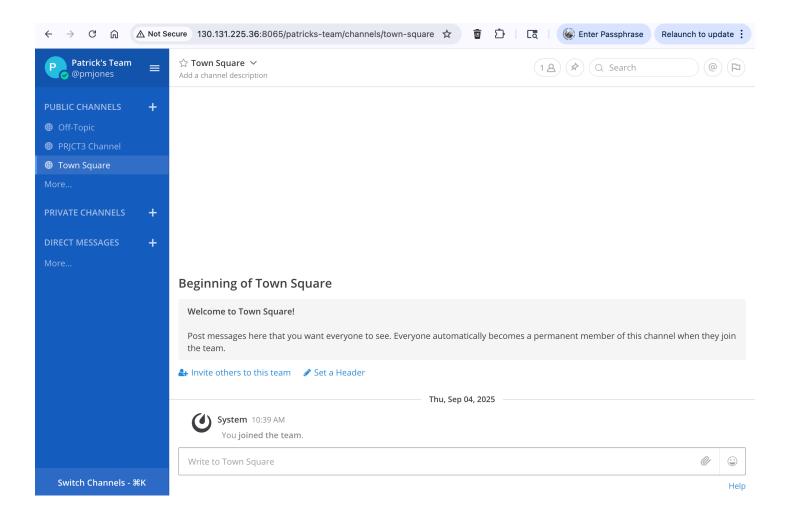
- listening on ports 80, 8065

- public: 130.131.225.36:8065

- lan: 10.0.0.4



Install mattermost on PubMattMostSvr



Lessons and Observations

- NSG rules must match actual subnet ranges, this was an issue I was able to resolve by modifying nsg rules.
- MySQL's default security (bind to localhost only) created a connectivity issue, resolved by modifying binding to allow traffic from 10.0.0.4 (PubMattMostSvr)
- Network security group subnet mismatch cause communication issues.
- Mattermost wasn't reachable because the server process wasn't running, started process website was accessible.

Overall I learned a lot by completing the Mattermost project. The initial cloud setup was rather straight forward. The issues I ran into were mostly communication issues. I was able to resolve by pinging resources, adjusting nsg rules, modifying mysql host bindings and making sure all services were up and running.

Project Cleanup

- deleted GreaterLearning resource group and all its dependencies

