Guard <> Storyteller Integration

Discover Moderation™ eng

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What even is Guard?

Guard is THE one stop authorization solution for all systems at Snap
Why integrate?

More granular and robust role management

RBAC - role based access control
ACL SERVICE

- **Tier 2**
  - Authz API availability

- **500 ms**
  - Authz API latency

- **Hard-coded**
  - Rigid roles (mapping)
GUARD

Tier 0
Authz API availability

4 ms
Authz API latency

RBAC
Access control

Programmatic
Extend roles
Who? Our users! Other developers...

- Content ops team
- Content eng team (ranking)
- XFN teams
Stand alone docker container which runs in Storyteller service K8s CLUSTER

Storyteller backend service is a POD in that cluster

Each pod has three CONTAINERS
Service container, auth-sidecar container and envoy proxy container
How do we define roles & policies?

GUARD role -> resources

https://guard.sc-corp.net/service/storyteller-service-staging/roles
How did we migrate from ACL?

Snap Orca permissions tool

- Pull from ACL lease tool to populate guard roles

https://github.sc-corp.net/Snapchat/snap-orca/tree/data-oracle/workspaces/permissions
Improvements

- Update resource names to reflect actual resources not endpoints
- In future update Action. Extend from just one-Call- to View and Edit
Takeaways - challenges, learnings

● Challenge - K8s , service to service integration

● Learnings - K8s, service to service integration, cybersecurity
Thank you!
To my mentor @ZheChen, manager @YinanNa and team!
@YikangLi, @TaomingHuang, @AllenLai
Appendix

GLOSSARY
https://docs.google.com/document/d/1MhszdwCz4LvvSrbrgSOIcETXN736aLhsY4hT1owrhjs/edit#bookmark
k=id.9xwbniy306ae

DESIGN DOC
https://docs.google.com/document/d/1kK-sSxS12khtaV70phnoBCgrJLcAqWB9YWt2Y69lICY/edit#