

OCI Cloud Guard Function Deployment - Progress Summary

Summary of Steps Completed Today:

1. Fn CLI Context Configuration

- Installed/Updated Fn CLI to latest version (0.6.43).
- Created OCI context 'oci-context'.
- Manually set 'api-url' in context:
`https://functions.us-ashburn-1.oci.oraclecloud.com`
- Manually added 'oracle.region' = us-ashburn-1 and 'oracle.compartment-id' via YAML editing.
- Verified 'fn inspect context oci-context' showed correct API URL, region, and compartment.

2. OCI Console Preparations

- Confirmed Function Application 'cloud-guard-processing-app' exists.
- Created Object Storage bucket: 'cloud-guard-findings-bucket'.
- Created Notifications Topic: 'cloud-guard-findings'.
- Created Event Rule for 'com.oraclecloud.cloudguard.finding' -> Notifications Topic.

3. Function Code

- Wrote Python function 'cloud_guard_processor' to:
 - * Receive Cloud Guard finding from Notifications.
 - * Save JSON to Object Storage bucket.

4. Deployment Attempts

- Initialized function project using Fn CLI ('fn init --runtime python3.9 cloud_guard_processor').
- Replaced default func.py with custom Cloud Guard -> Object Storage code.
- Docker build succeeded locally.
- Deployment failed at Docker push stage due to OCIR authentication.

5. Next Blocker Identified

- Need to authenticate 'docker' with OCI Container Registry (OCIR) using:
 - * Username format: <tenancy-namespace>/<oci-username>

- * Password: OCI Auth Token
- * Registry endpoint: iad.ocir.io for Ashburn region.

Where to Resume Tomorrow:

- Generate an OCI Auth Token in your user profile.
- Log in to OCIR using:

```
echo "<AUTH_TOKEN>" | docker login iad.ocir.io --username  
"<TENANCY_NAMESPACE>/<OCI_USERNAME>" --password-stdin
```

- Set FN_REGISTRY:

```
export FN_REGISTRY=iad.ocir.io/<tenancy-namespace>/<repo-name>
```

- Redeploy function:

```
fn -v deploy --app cloud-guard-processing-app
```

- Link function to Notifications topic in OCI Console.