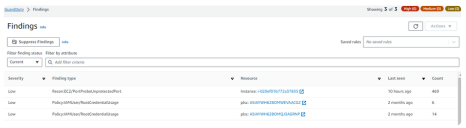
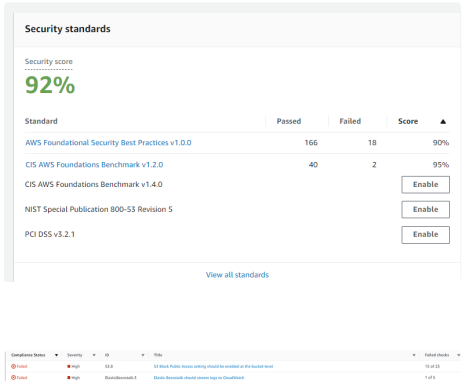
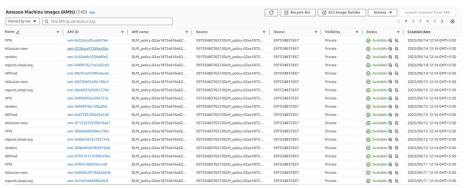
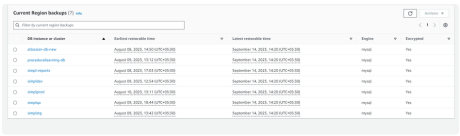
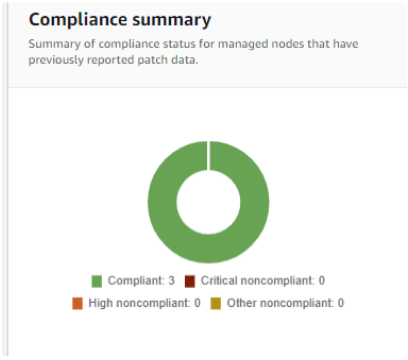
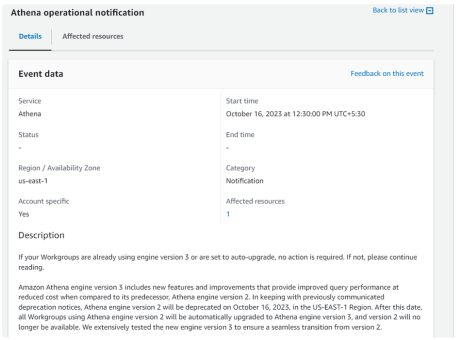
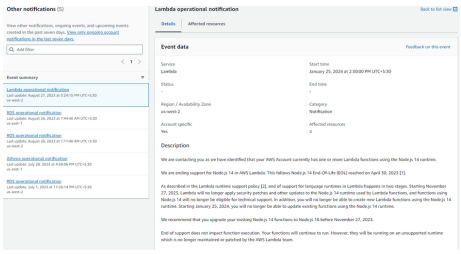
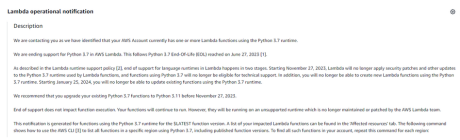
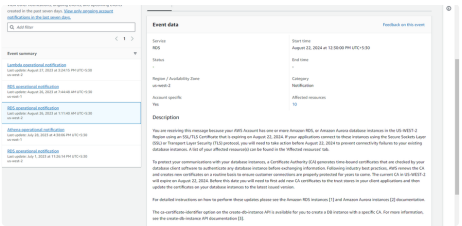
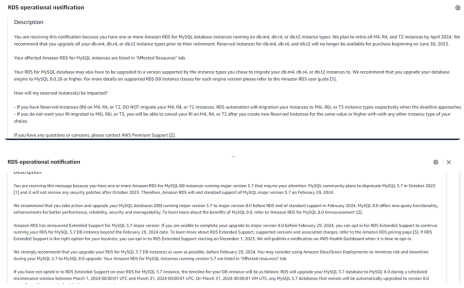
2.1.1.6.42 PLSC - Security Review for August-2023

- AWS Guard duty
- AWS Security Hub
- Patching and Version Updates
- Least privileges on all IAM Users / Groups / Keys and Services(Service roles)
- IAM Access analyzer
- Data Backup
- Health Events

Area	Status	Notes	Key Screen Shots
AWS Guard Duty	GOOD	No high or medium findings	
AWS Security Hub	IN-PROGRESS	AWS Foundational Security Best Practices compliance is 90% CIS AWS Foundations Benchmark compliance is 95%	
Least privileges on all IAM Users / Groups / Keys and Services(Service roles)	GOOD	• Given least privileges to all the required policy for IAM Users. • We rotated IAM keys which needs to be rotated from our end.	PLSC-IAM User Keys Needs to be Rotated
IAM Access analyzer	GOOD	**Access Analyzer:** Enabled	2.1.1.4 IAM Access Analyzer Findings-August 2023
Data Backup	YELLOW	EQIP instance doesnot have any backups.	We are using DLM for AMI backup.  Automated backups for RDS.

			
Patching and Version Updates	MEDIUM	Enable patching for EQIP servers	
Health Events	GOOD	We got few PHD Notifications. 1. Athena operational Notification workgroups is auto upgraded to engine version3. 2. Lamba Operational Notification its about AWS is ending support for Node.js 14 in Lambda ,AWS recommend to upgrade existing Node.js 14 functions to Node.js 18 before November 27, 2023. from Starting January 25, 2024, we will no longer be able to update existing functions using the Node.js 14 runtime so we need to upgrade to stable version. 3. Lamba Operational Notification its about AWS is ending support for Python 3.7 in Lambda ,AWS recommend to upgrade existing Python3.7 functions to Python 3.11 . from Starting January 25, 2024, we will no longer be able to update existing functions using the Python 3.7 runtime so we need to upgrade to stable version. 4. RDS: AWS renews the CA and creates new certificates on a routine basis to ensure customer connections are properly protected for years to come. The current CA in US-EAST-1 ,us-west-2 will expire on August 22, 2024. Before this date we will need to first add new CA certificates to the trust stores in client applications and then update the certificates on database instances to the latest issued version, we will review and work on it. 5. We got RDS operational Notification for Procedural DB, its about RDS for MySQL	   

		database Instance types db.m4, db.r4, or db.t2 are retiring and also need upgrade database engine to MySQL 8.0.28 or higher. Currently our db is running with MySQL 5.7.38 engine version with db.t2.small Instance type. 6. We got RDS operational Notification its about MySQL community plans to deprecate MySQL 5.7 in October 2023, AWS recommend us to upgrade MySQL databases (DB) running major version 5.7 to major version 8.0 before RDS end of standard support in February 2024.