Name - Yash Lakhtariya
Enrollment number - 21162101012
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Scenario : Your organization, XYZ Corp, is migrating its e-commerce platform to the IBM Cloud. As a part of this migration, the company needs to ensure that the new cloud environment complies with industry regulations such as PCI-DSS for handling payment information and GDPR for protecting customer data. The goal is to implement IBM Cloud Security and Compliance Center to continuously monitor and maintain the security and compliance posture of the e-commerce platform.

Go through the requirements and perform the following tasks :

1: Provision the Security and Compliance Center :

- Log in to XYZ Corp's IBM Cloud account.
- Navigate to the Security and Compliance Center and provision the service.

2: Configure the Service :

- Connect the e-commerce platform's cloud resources to the Security and Compliance Center.
- Enable data collection for security and compliance metrics.

3: Define and Apply Policies :

- Identify PCI-DSS and GDPR compliance requirements.
- Create and apply security and compliance policies within the Security and Compliance Center.

4: Run Initial Security Scans :

- Initiate security scans on the e-commerce platform.
- Analyze results to identify and prioritize issues.

5: Remediate Identified Issues :

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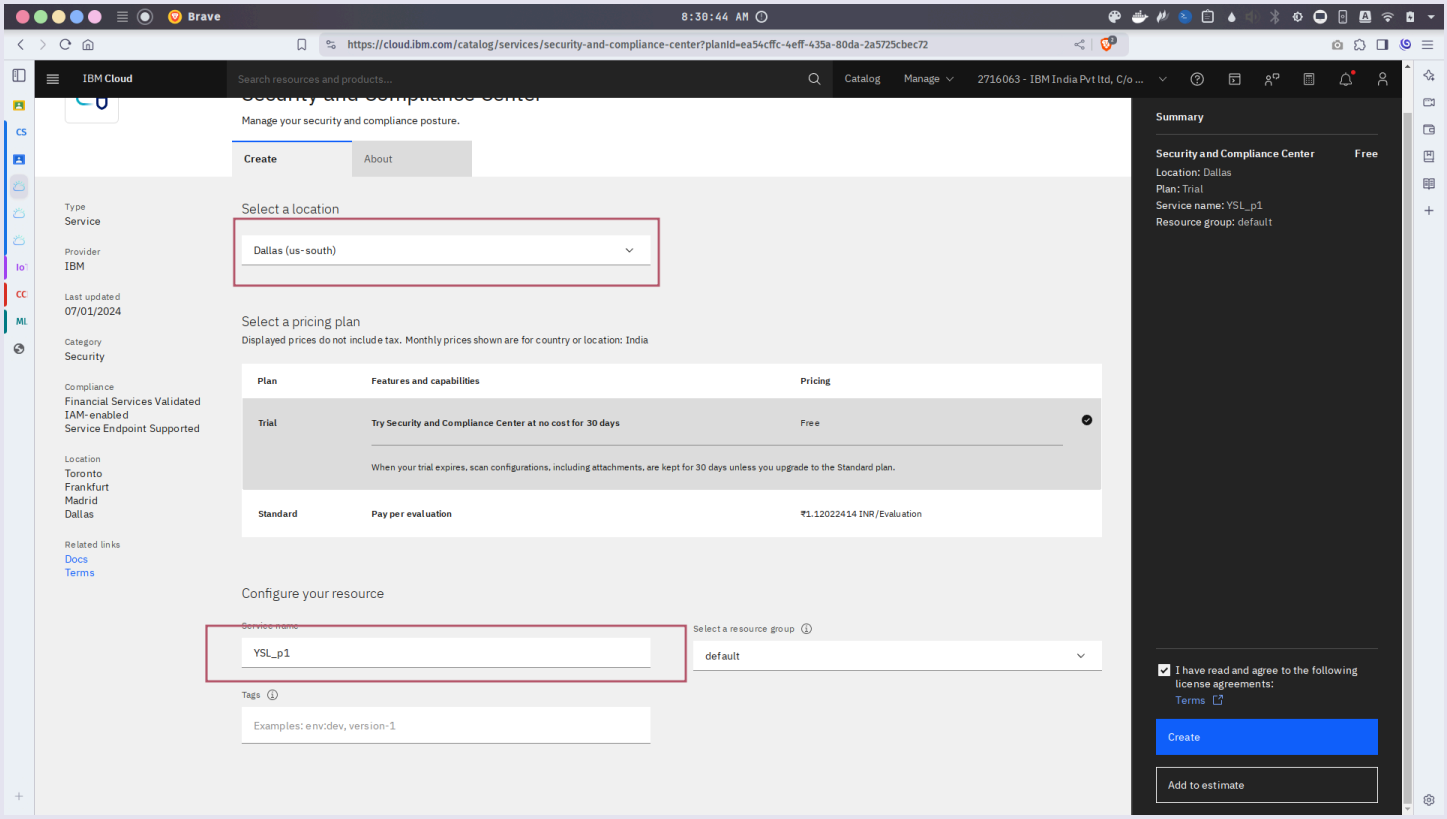
- Develop and implement remediation plans.
- Validate changes to ensure issues are resolved effectively.

6: Enable Continuous Monitoring, Review and Improve :

- Set up continuous monitoring and configure alerts.
- Generate and review compliance reports regularly.
- Conduct regular reviews and update policies and procedures.

Screenshots and steps :

1. Create Security and Compliance Centre service and enter region and name



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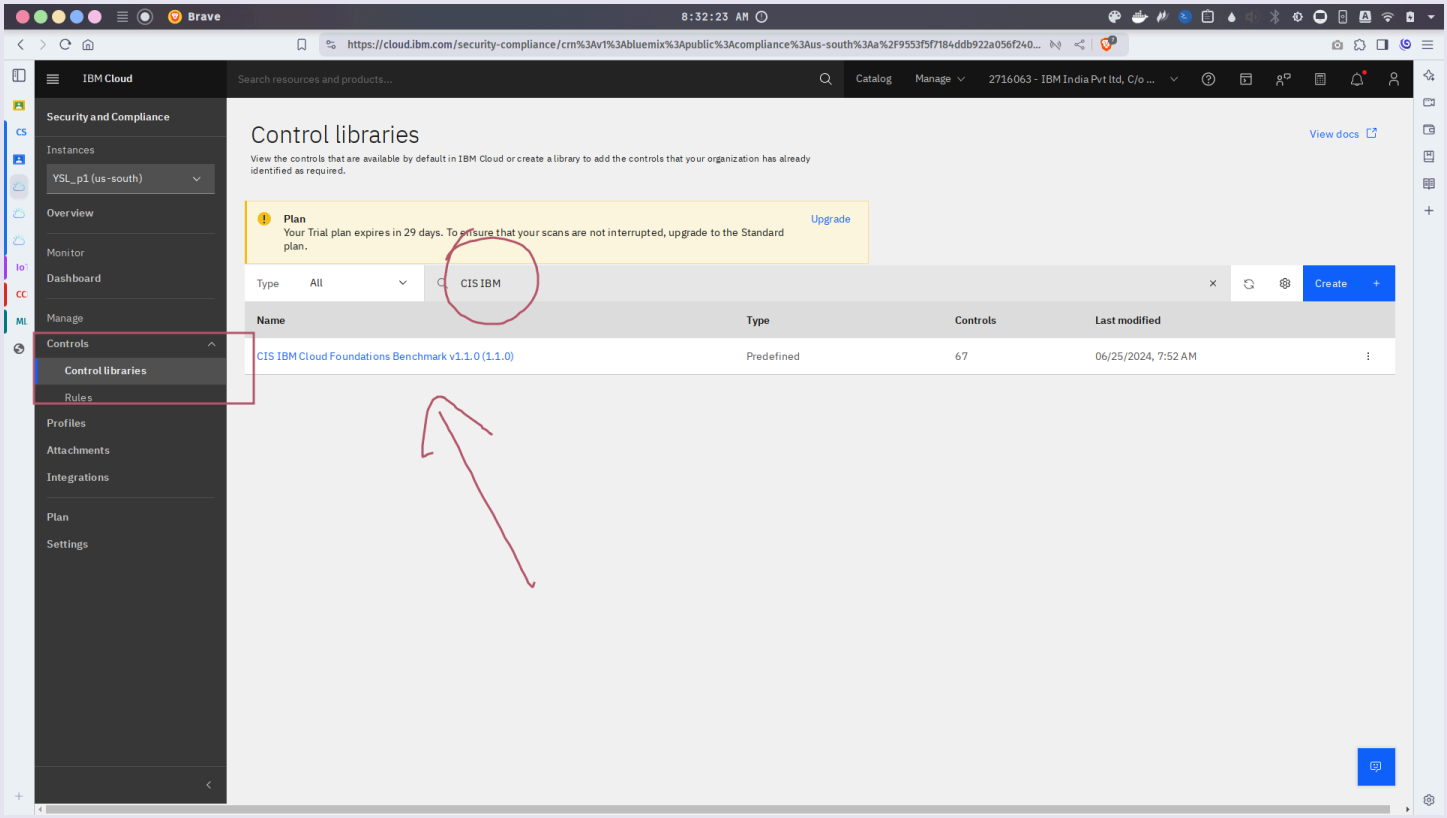
2. In Control Libraries, go to CIS IBM benchmark library



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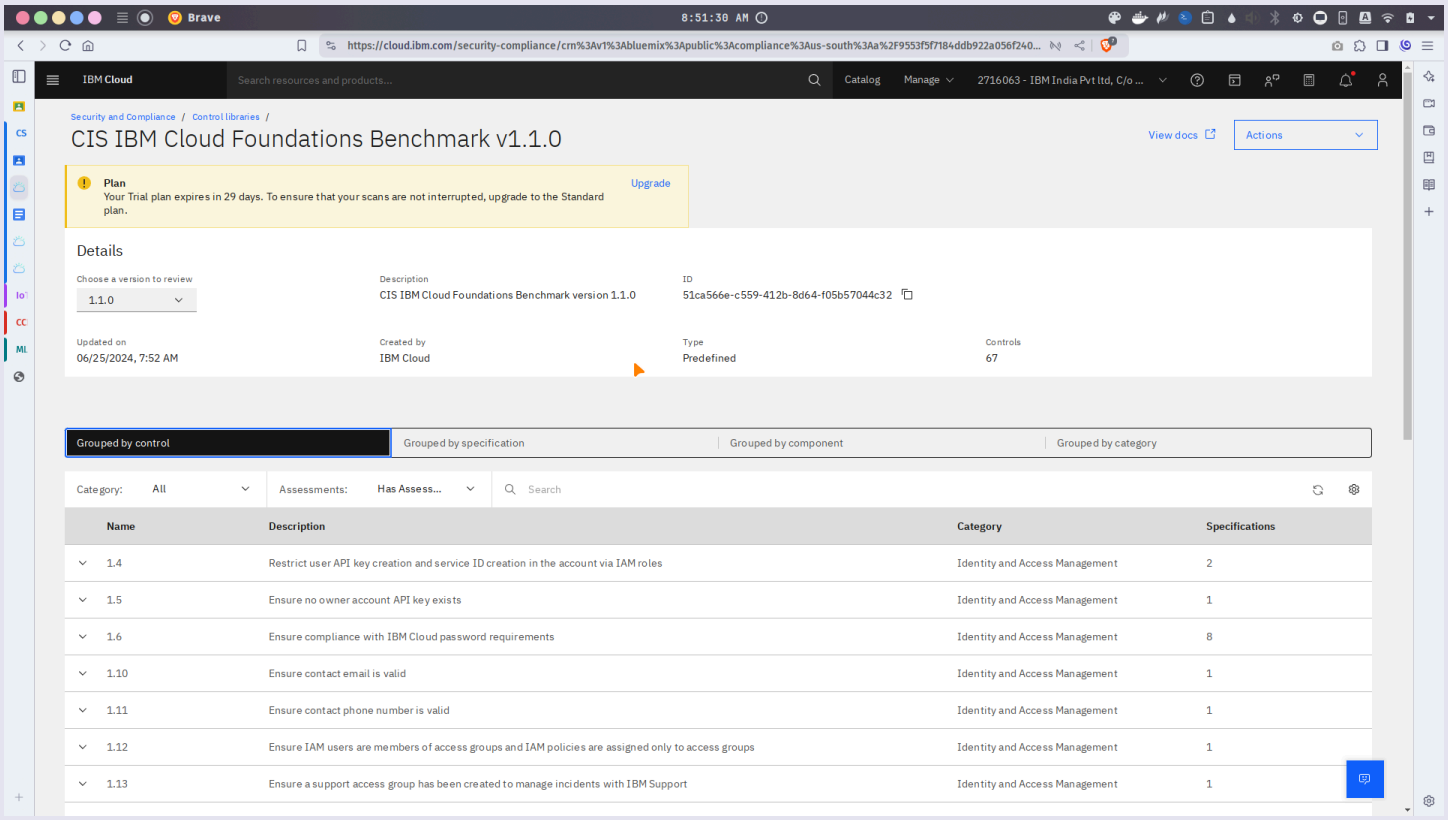
3. Here, all controls and benchmarks are visible as per categories, components, specs and controls



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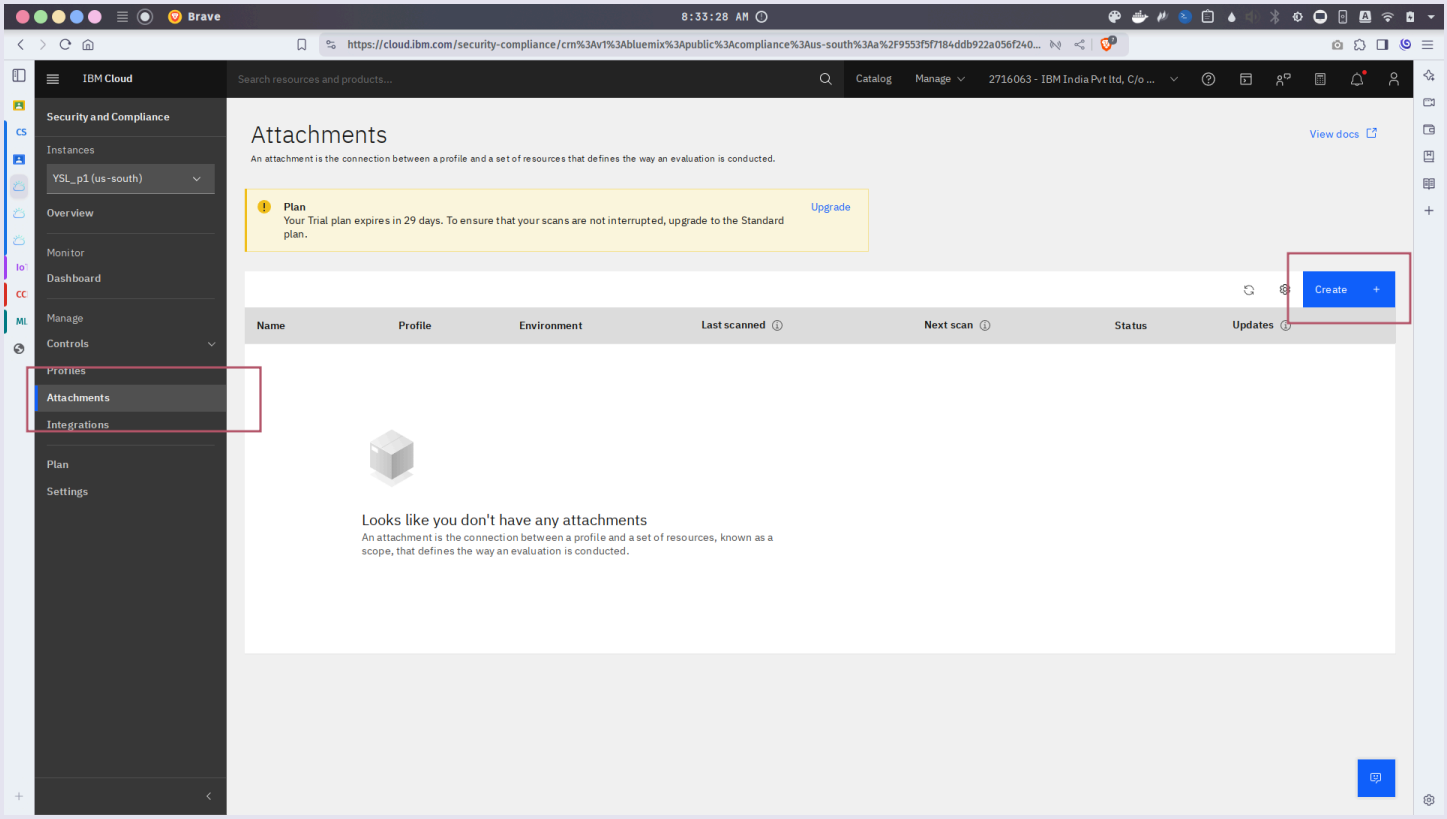
4. Now in service home, visit attachments and add one



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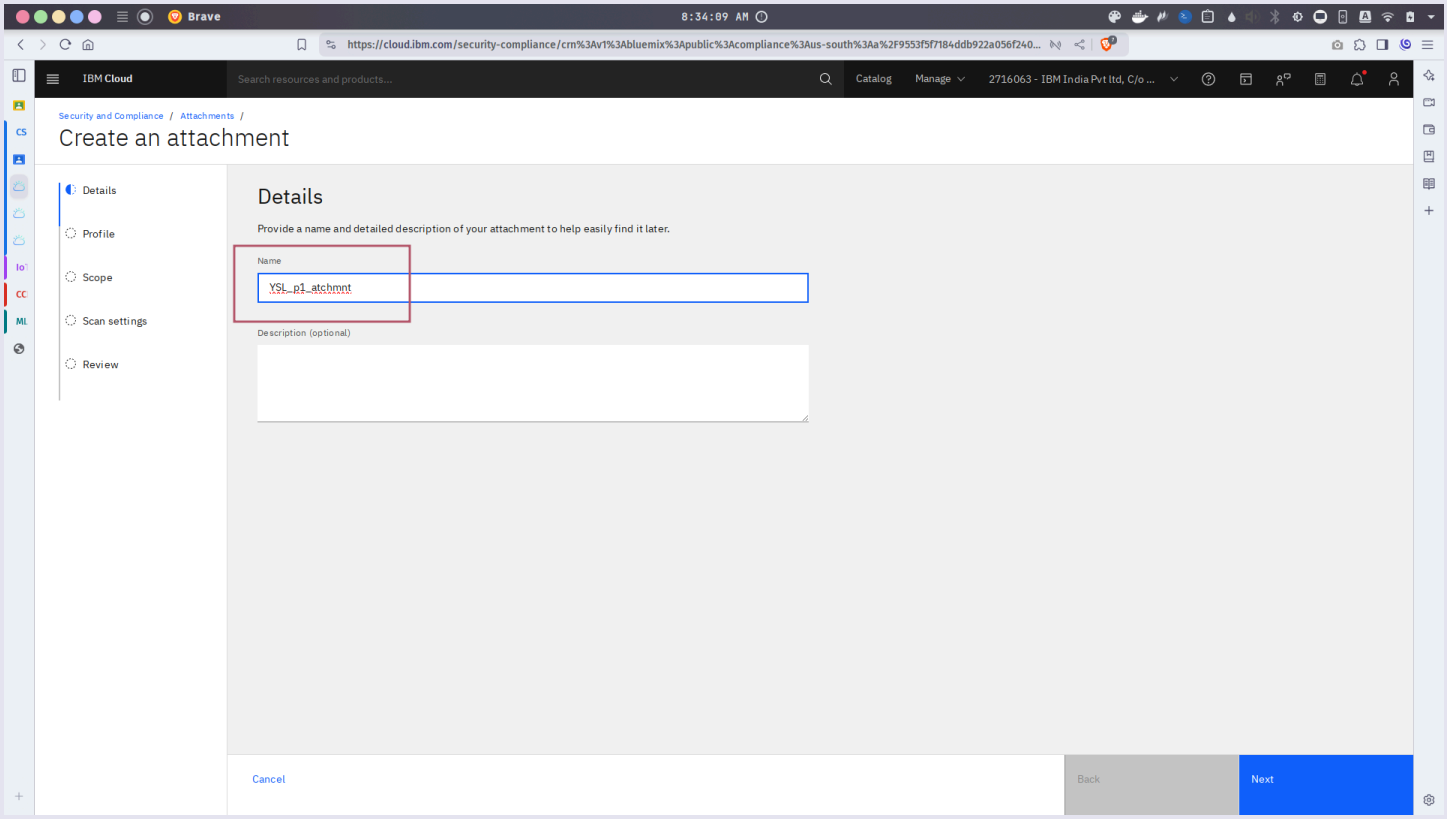
5. Enter name and proceed further



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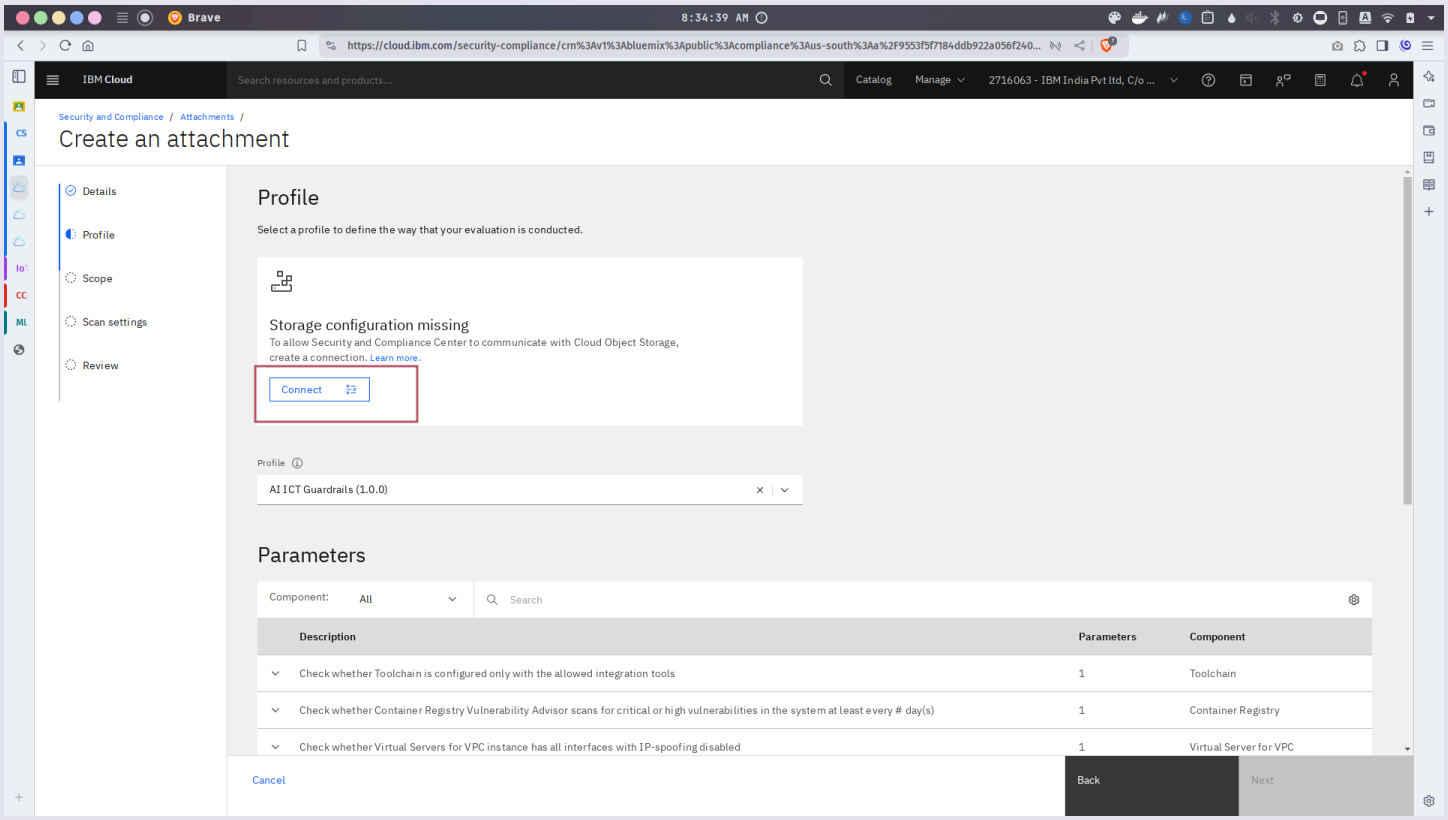
6. Now, the storage is needed to proceed, Cloud Object Bucket can be used also here



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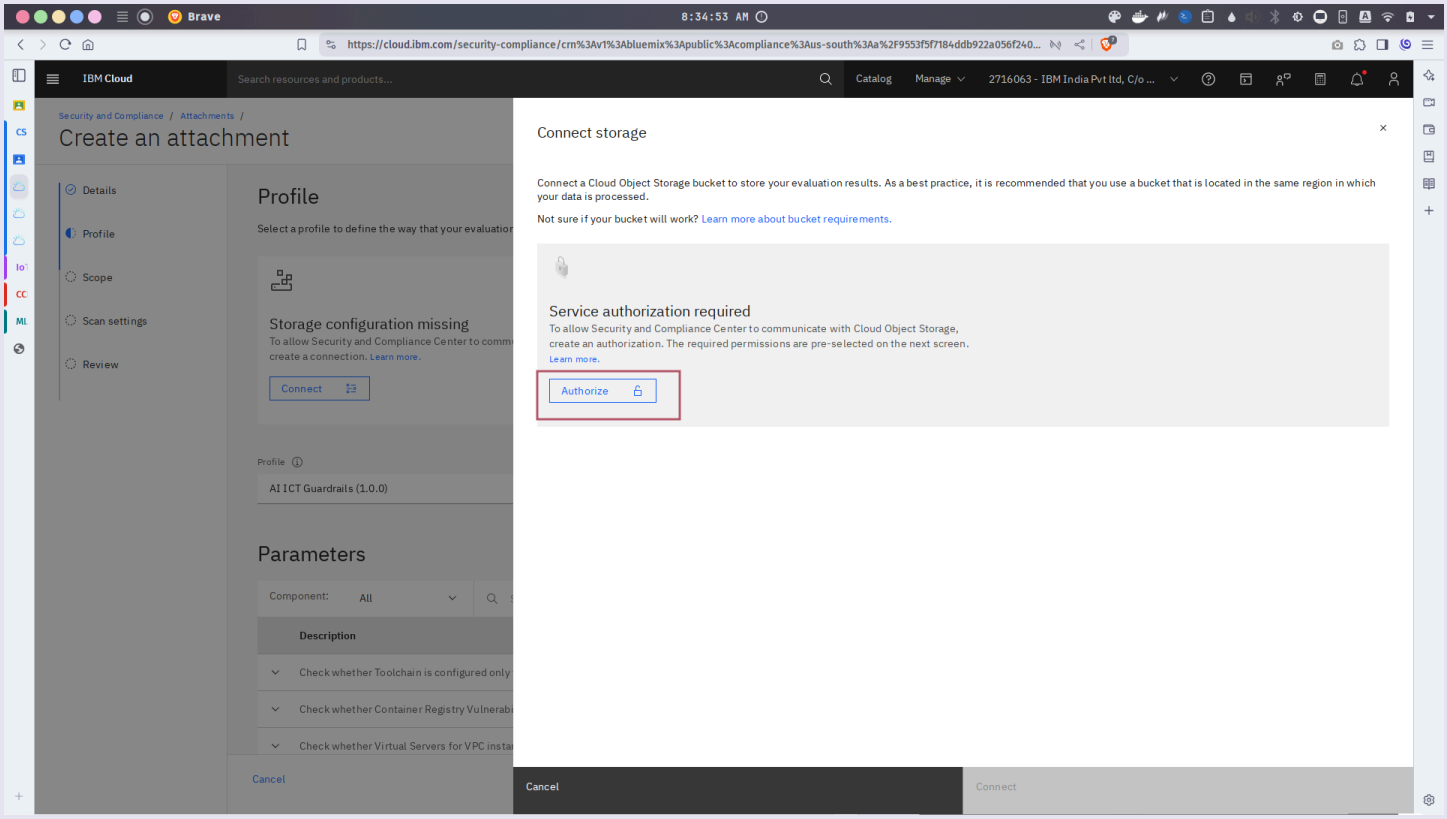
7. Authorize the service instance



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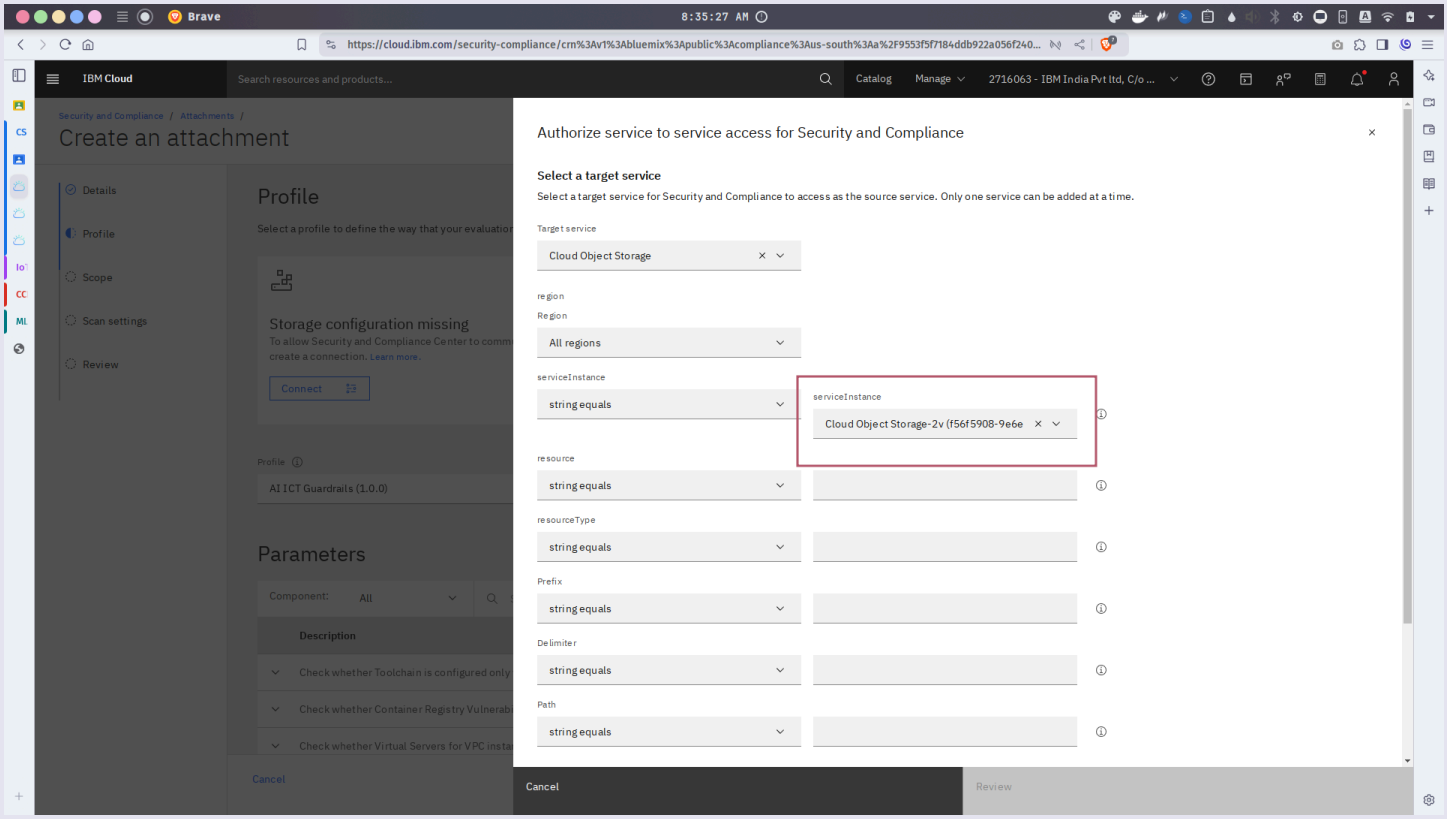
8. Select the object storage instance



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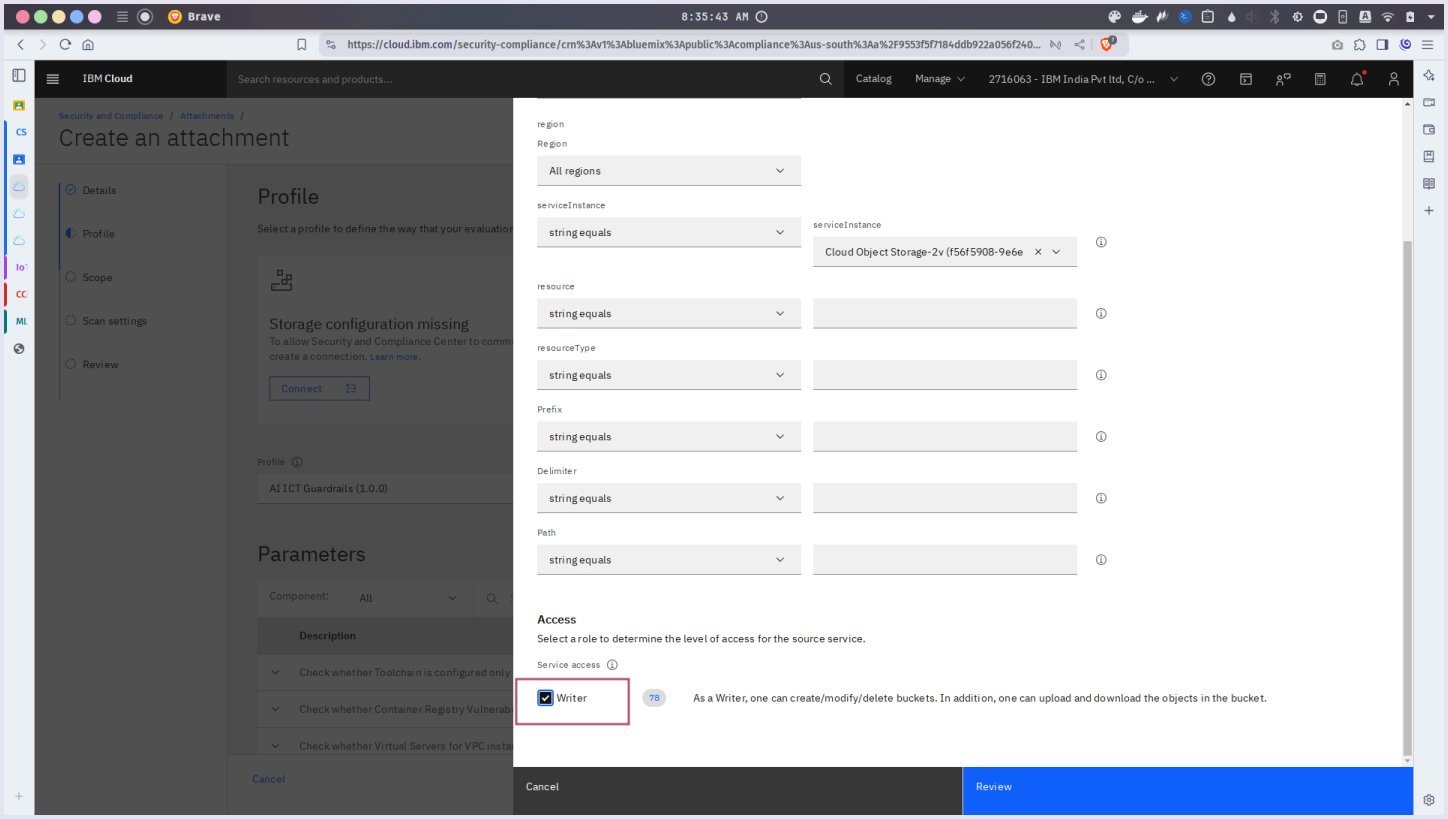
9. Allow write access to the security service instance



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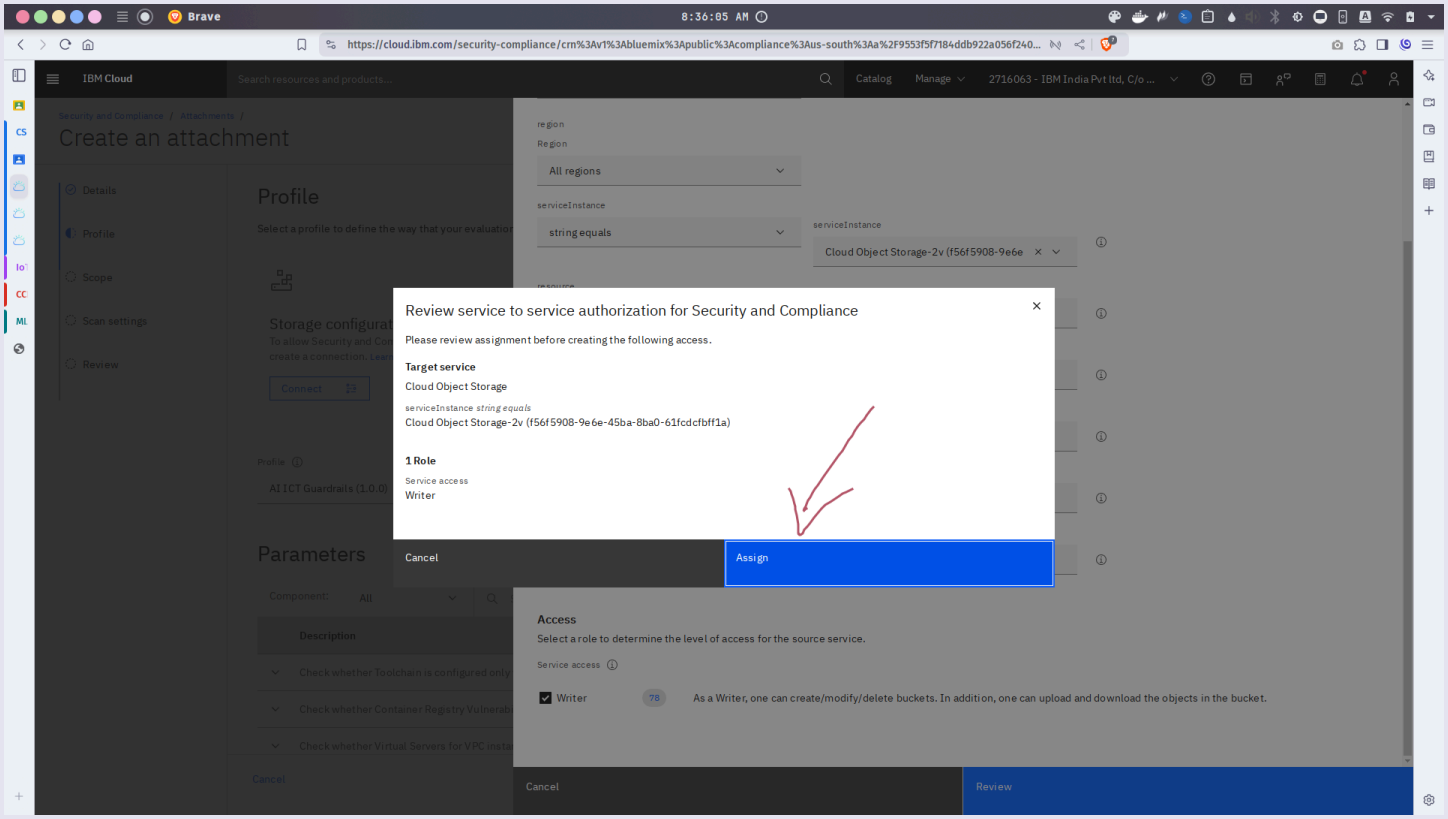

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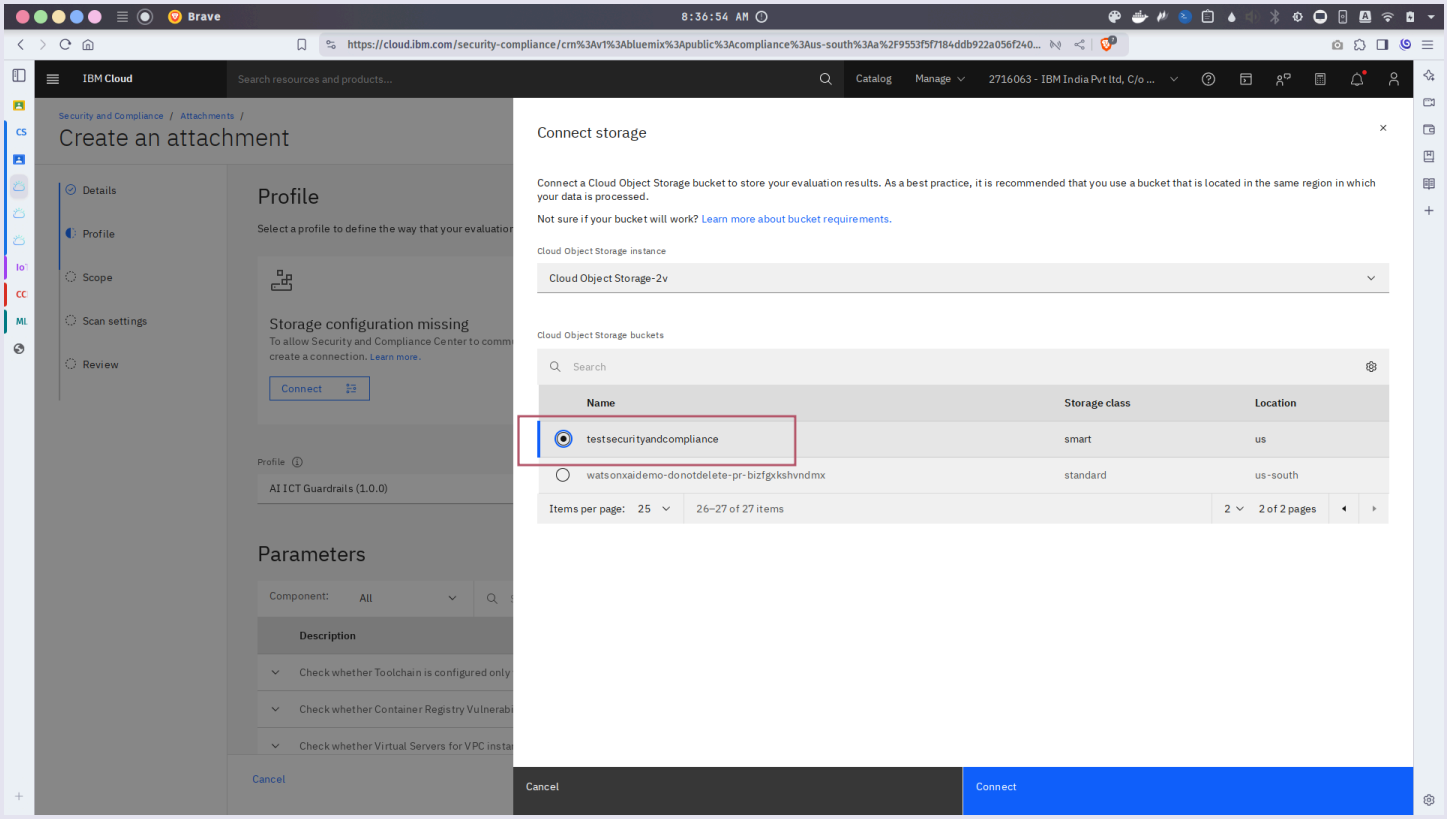
10. After assigning the role, now select the bucket to be used here



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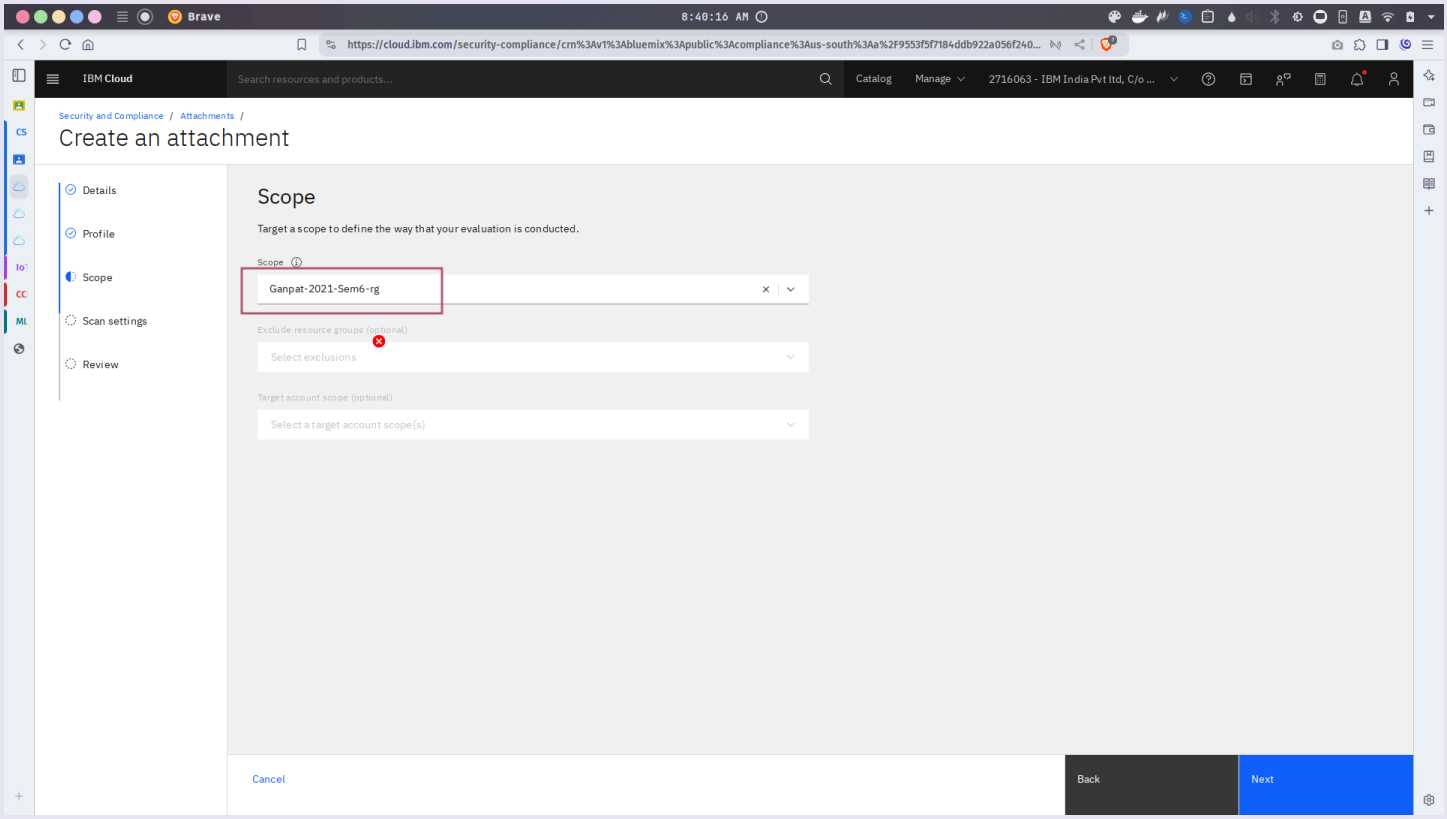
11. Select the scope of this service instance



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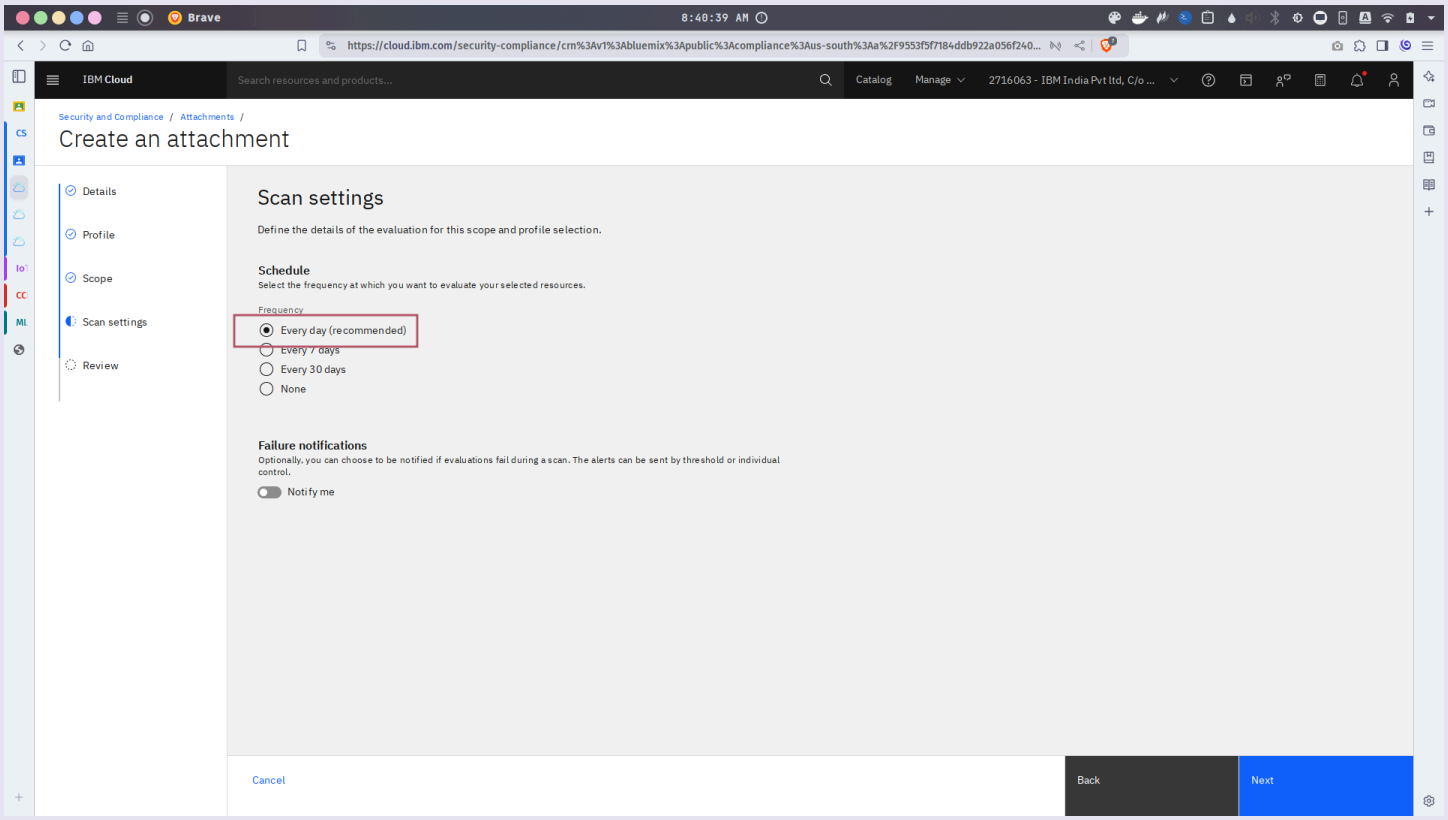
12. Scan settings should be everyday as recommended here to avoid intrusion and threats or any failure due to weak security



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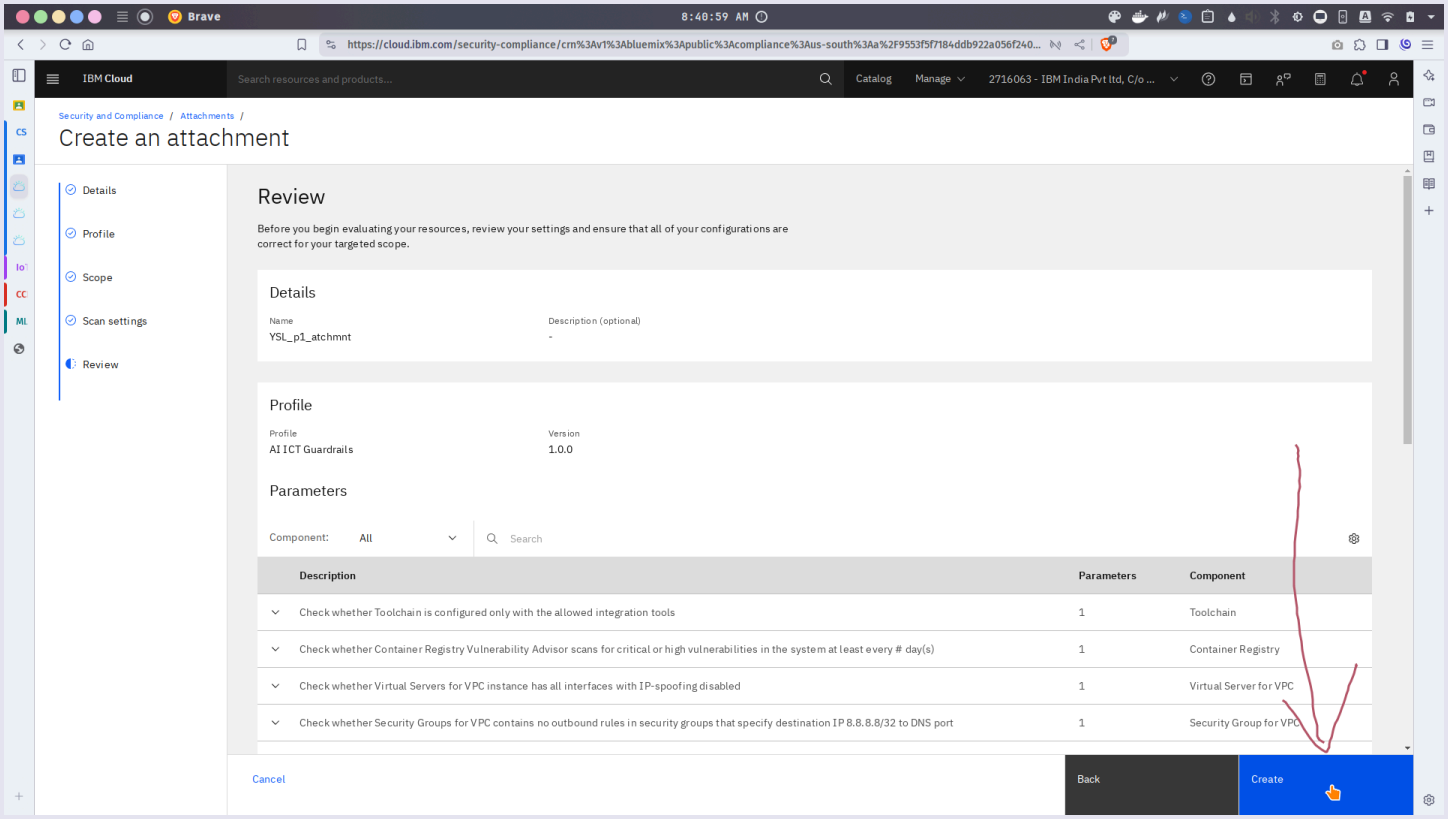
13. Review settings and create attachment



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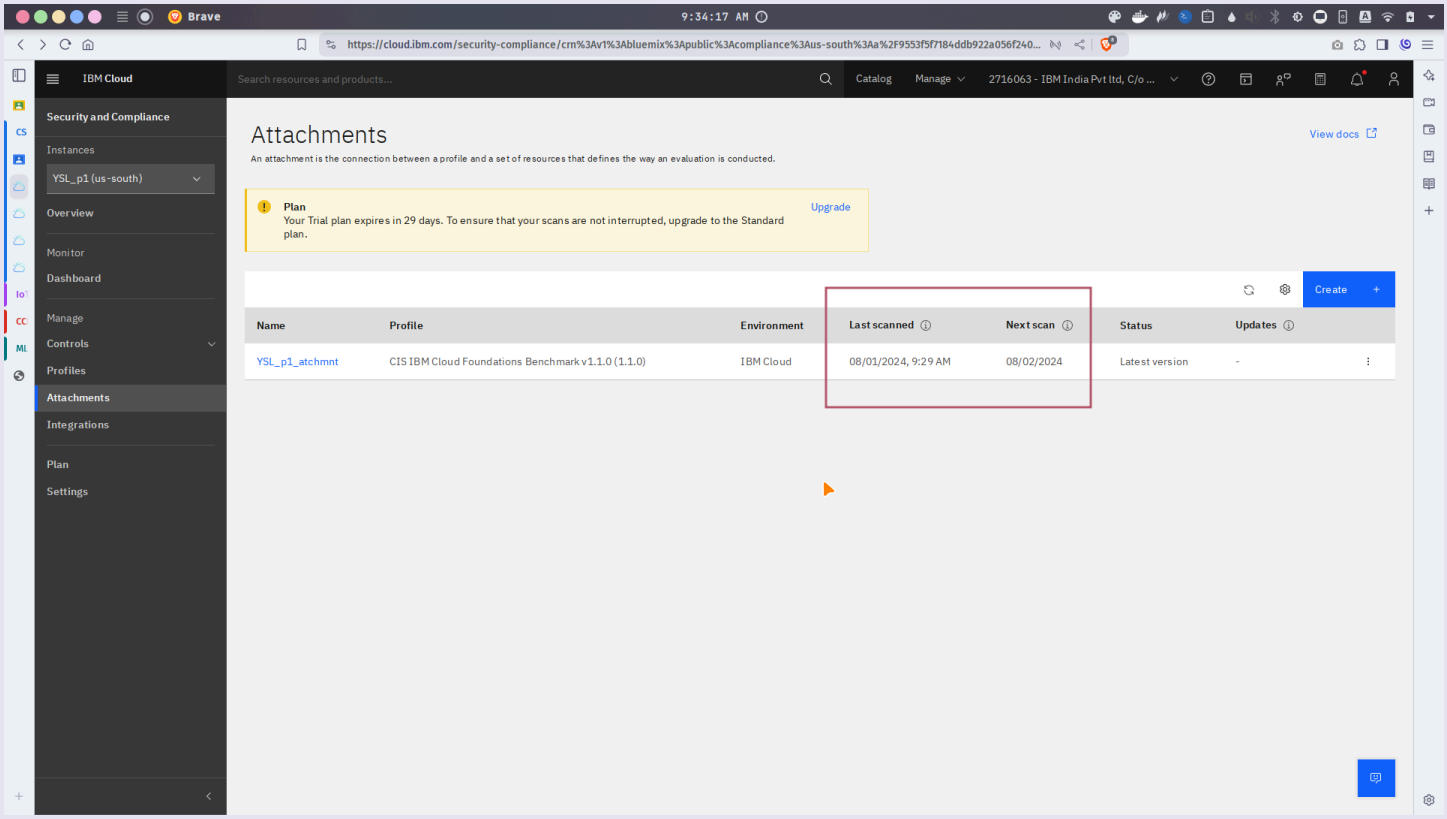
14. After scan is completed the next scan will be after 24 hours



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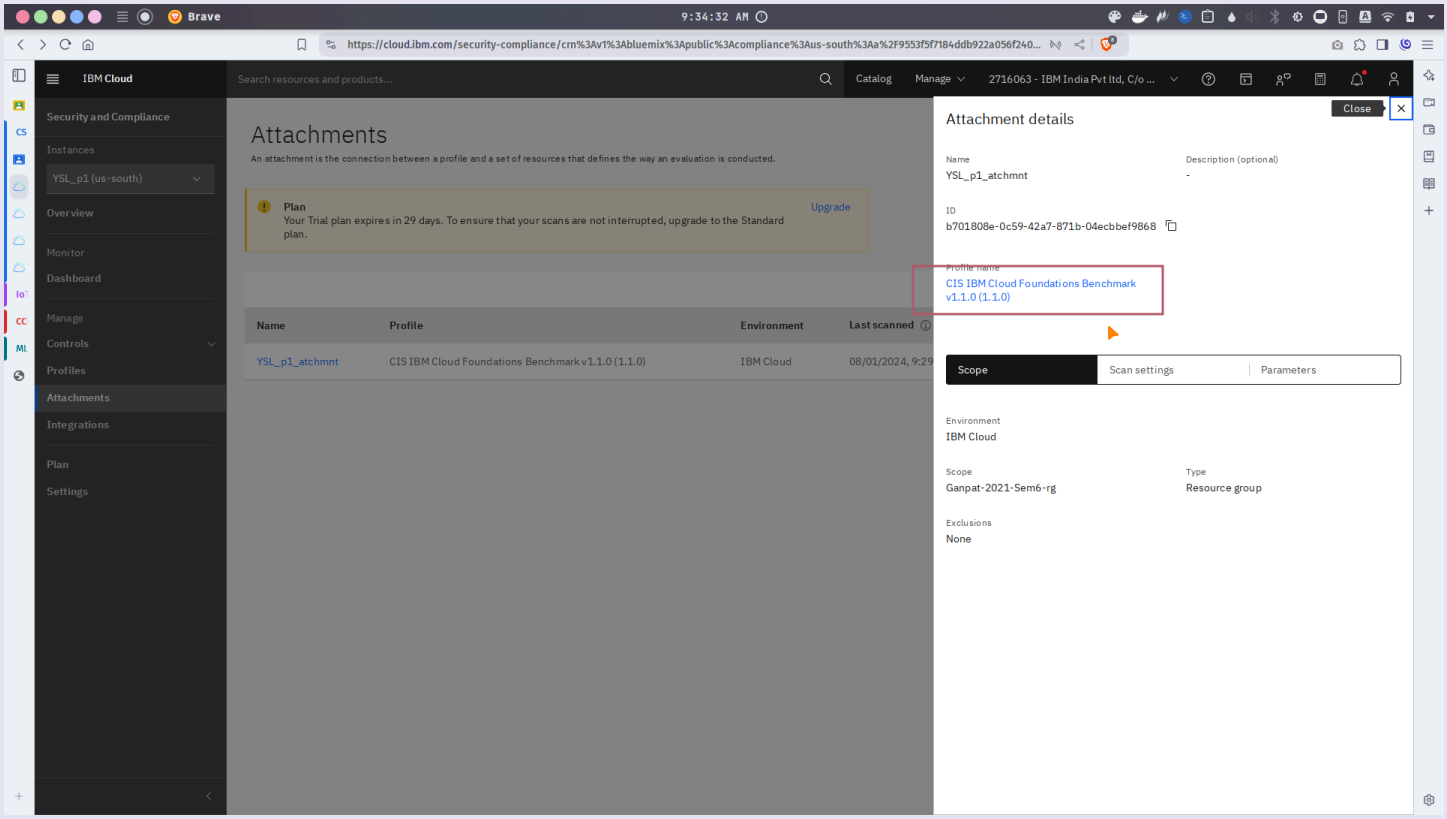
15. Click on the attachment and click the profile details



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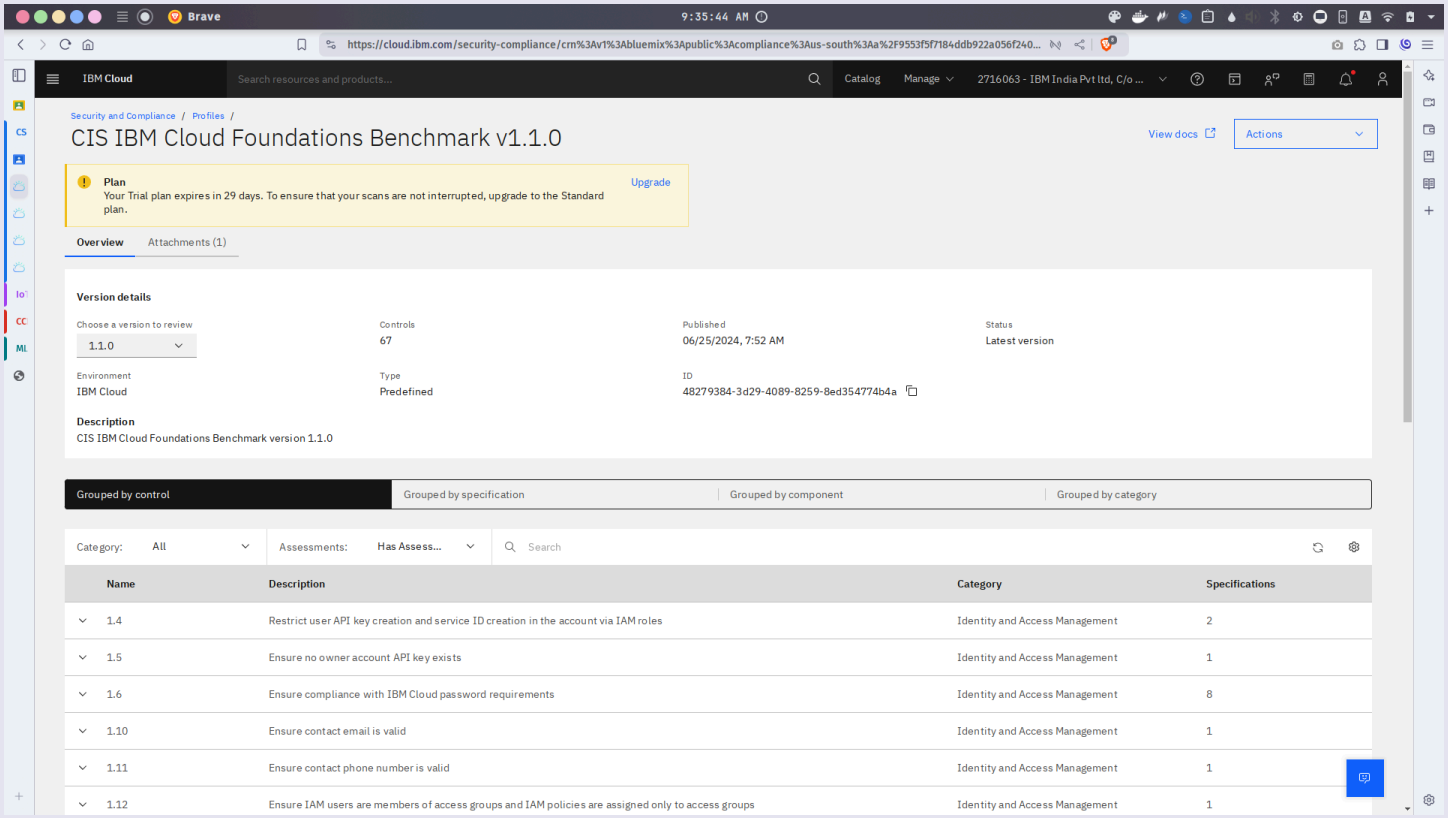
16. All controls are visible here



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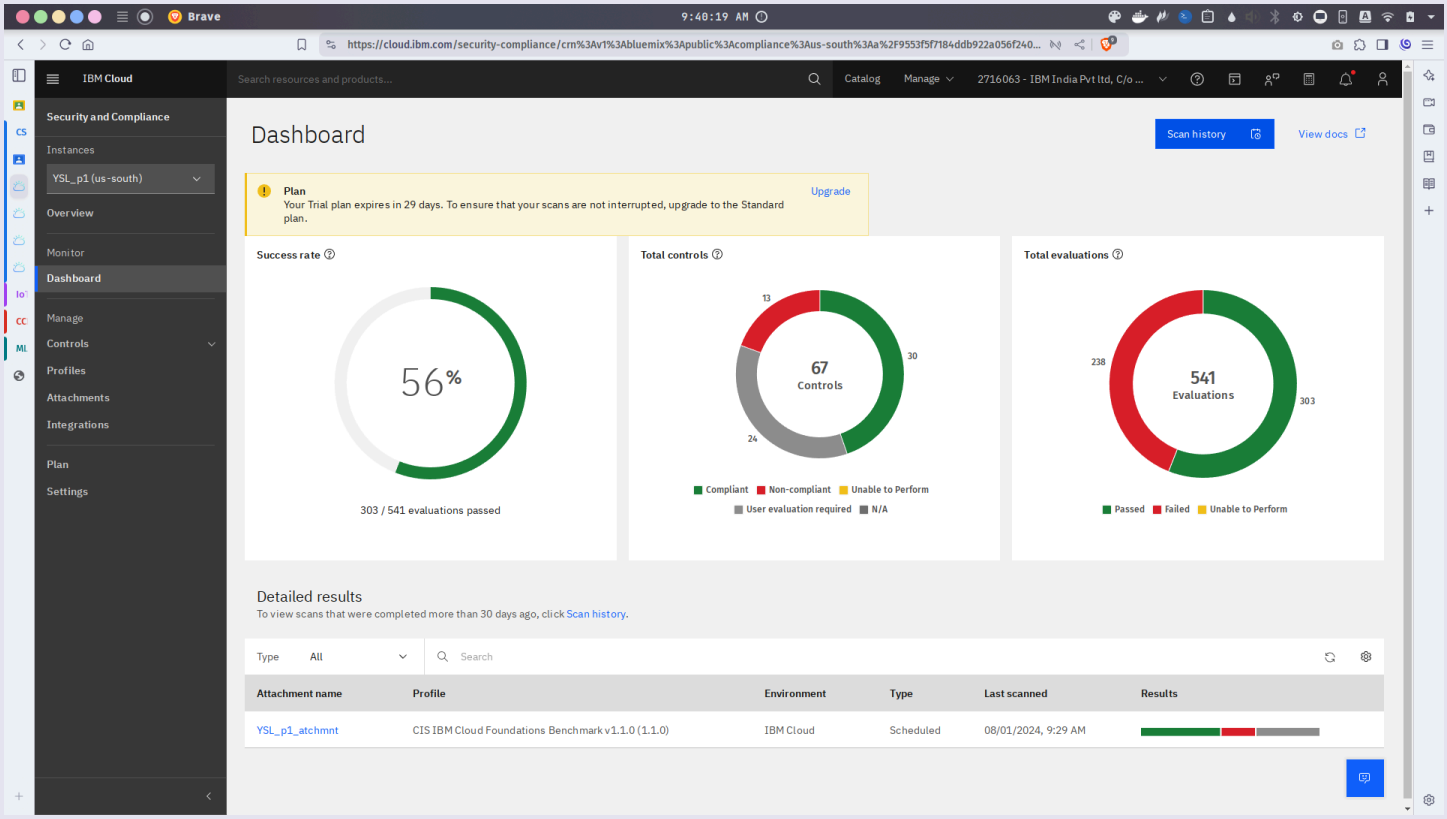
17. In dashboard on service home, the results are mentioned



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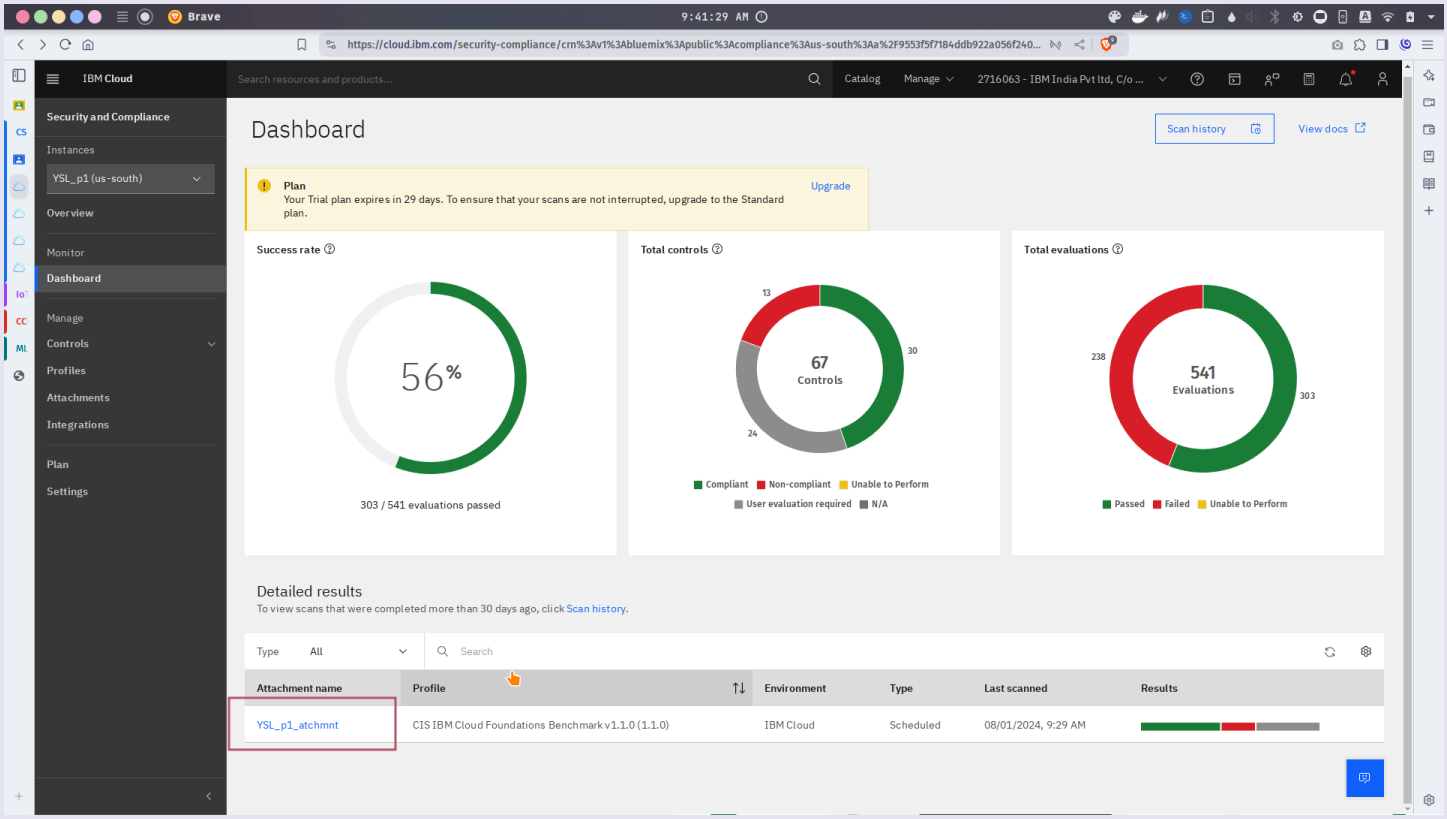
18. Click on the attachment to check its detailed results



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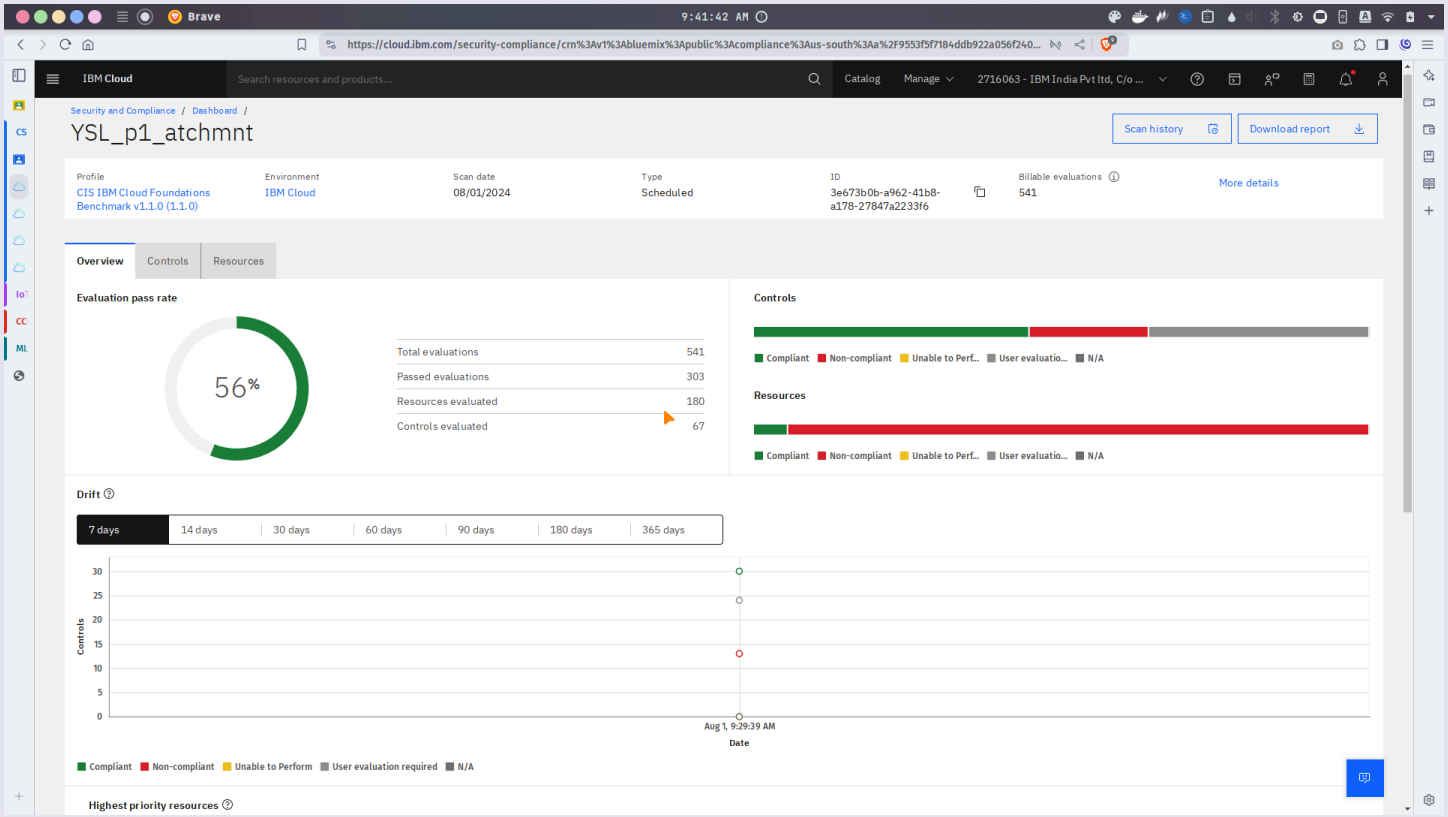

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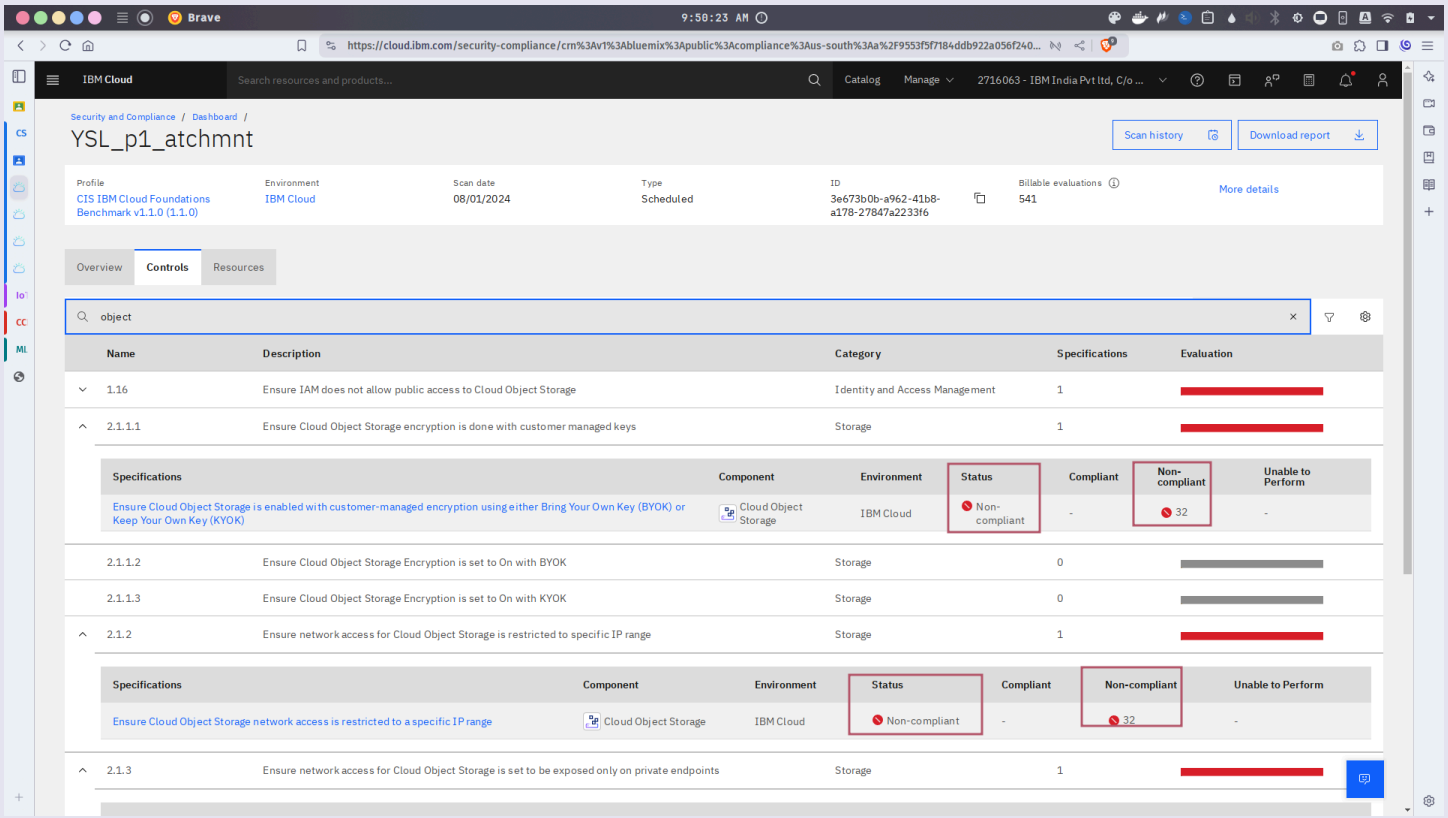
19. In controls, it shows the security problems like here in case of object storage public access and managed keys



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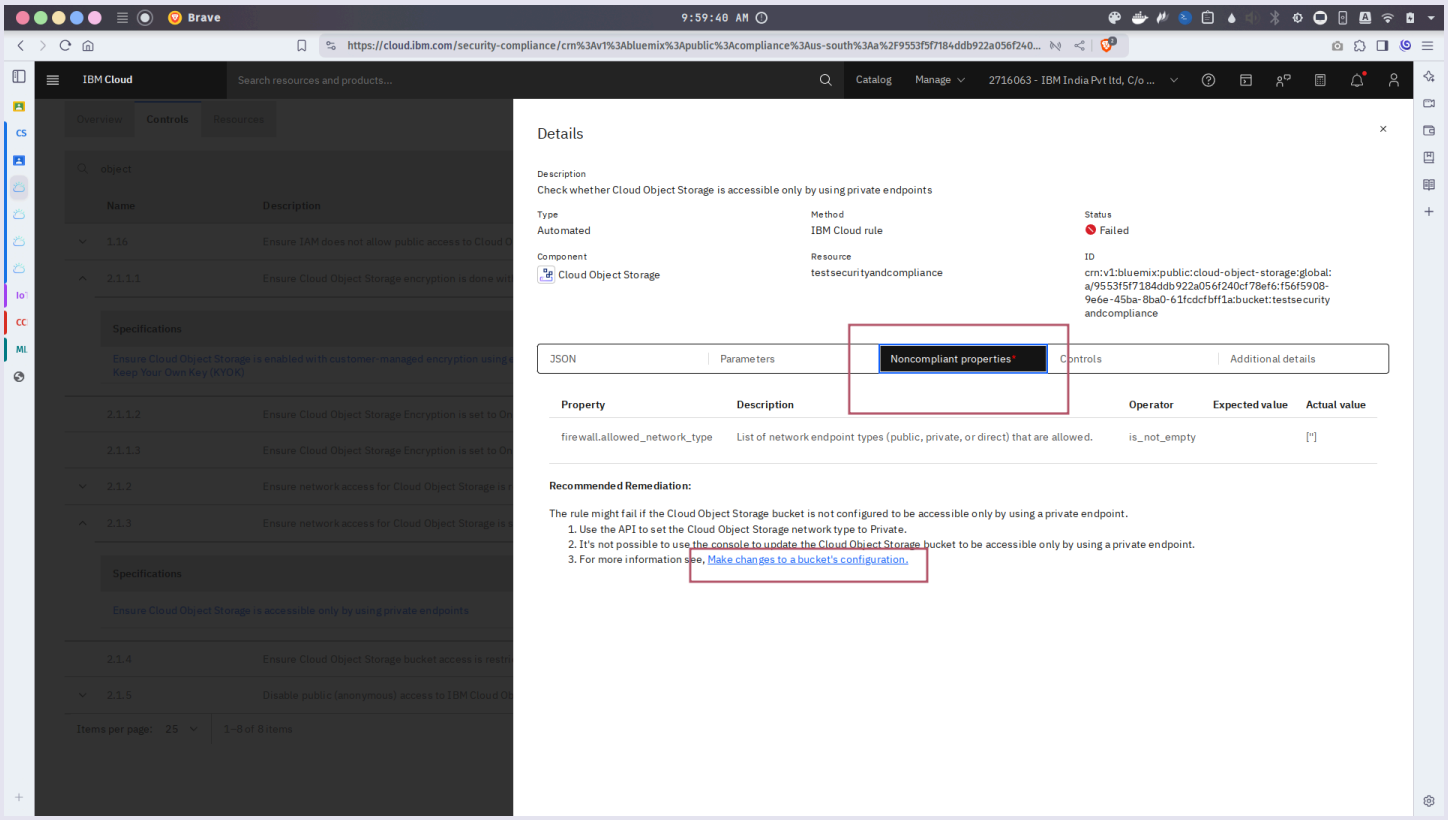
20. In dashboard of security service, click on the details of control and check the recommended remediation to solve the issue



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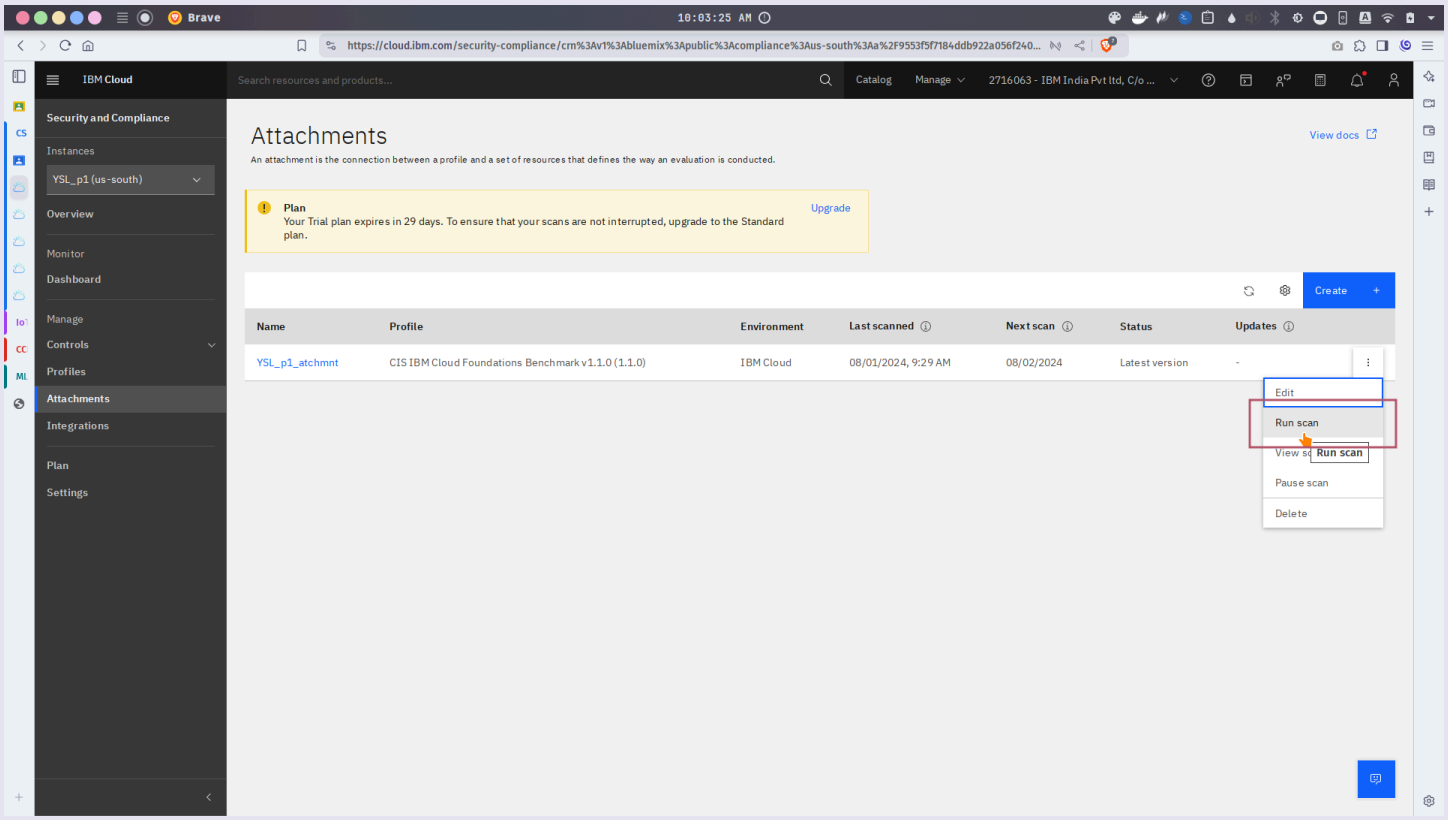
21. Also the scan can be run at custom time by option visible in attachments tab on service home



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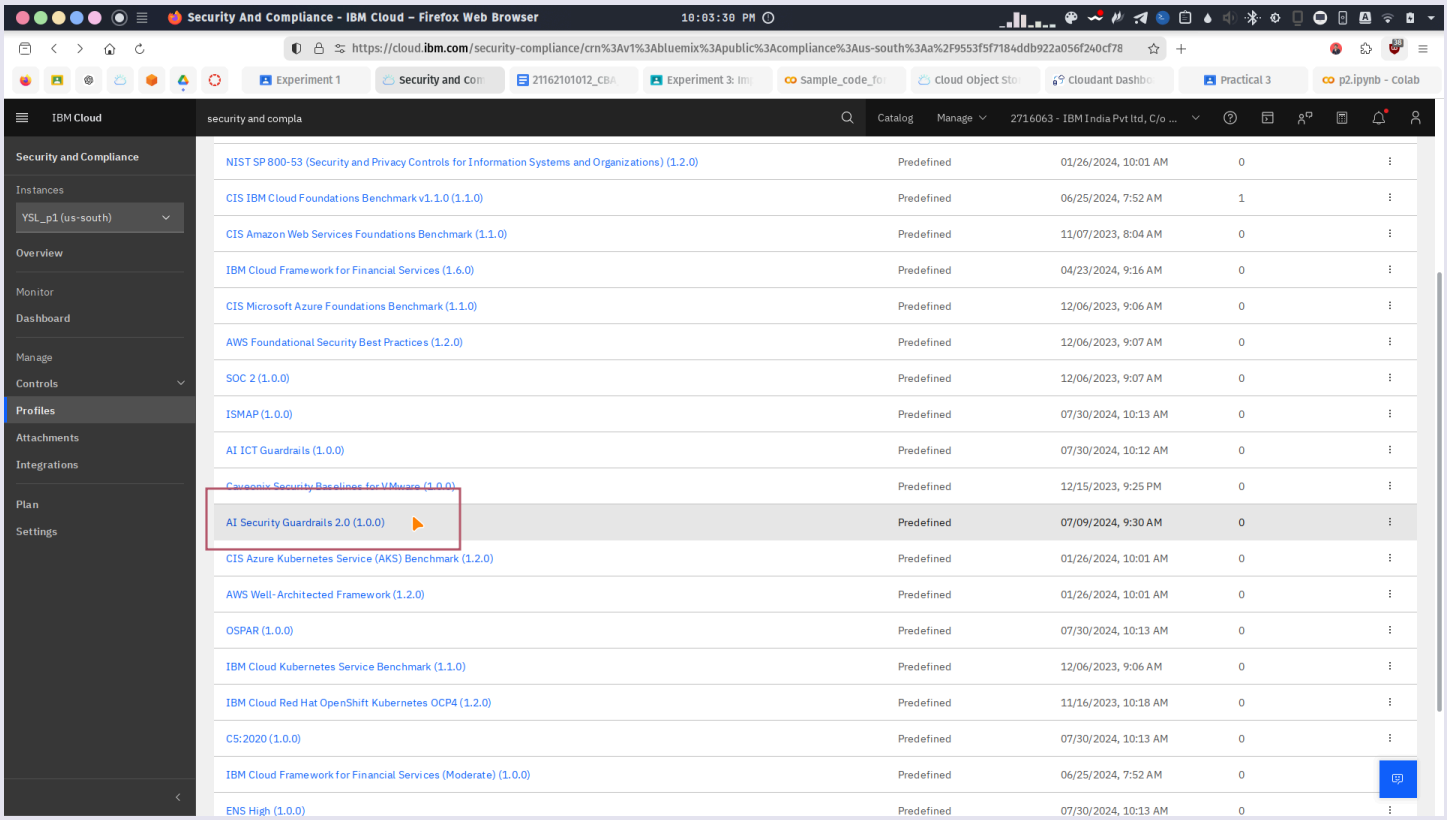
TASK : Identify AI Security Guardrails 2.0 (1.0.0) compliance requirements. Create an Attachment using the predefined AI Security Guardrails profile and initiate security scans.

Analyze results to identify issues and Validate any 3 changes to ensure issues are resolved effectively. Example: Toolchain issues, key protect issues, IBM cloud object storage issues, and Watson Machine learning issues can be rectified.

22. Visit AI Security Guardrails profile



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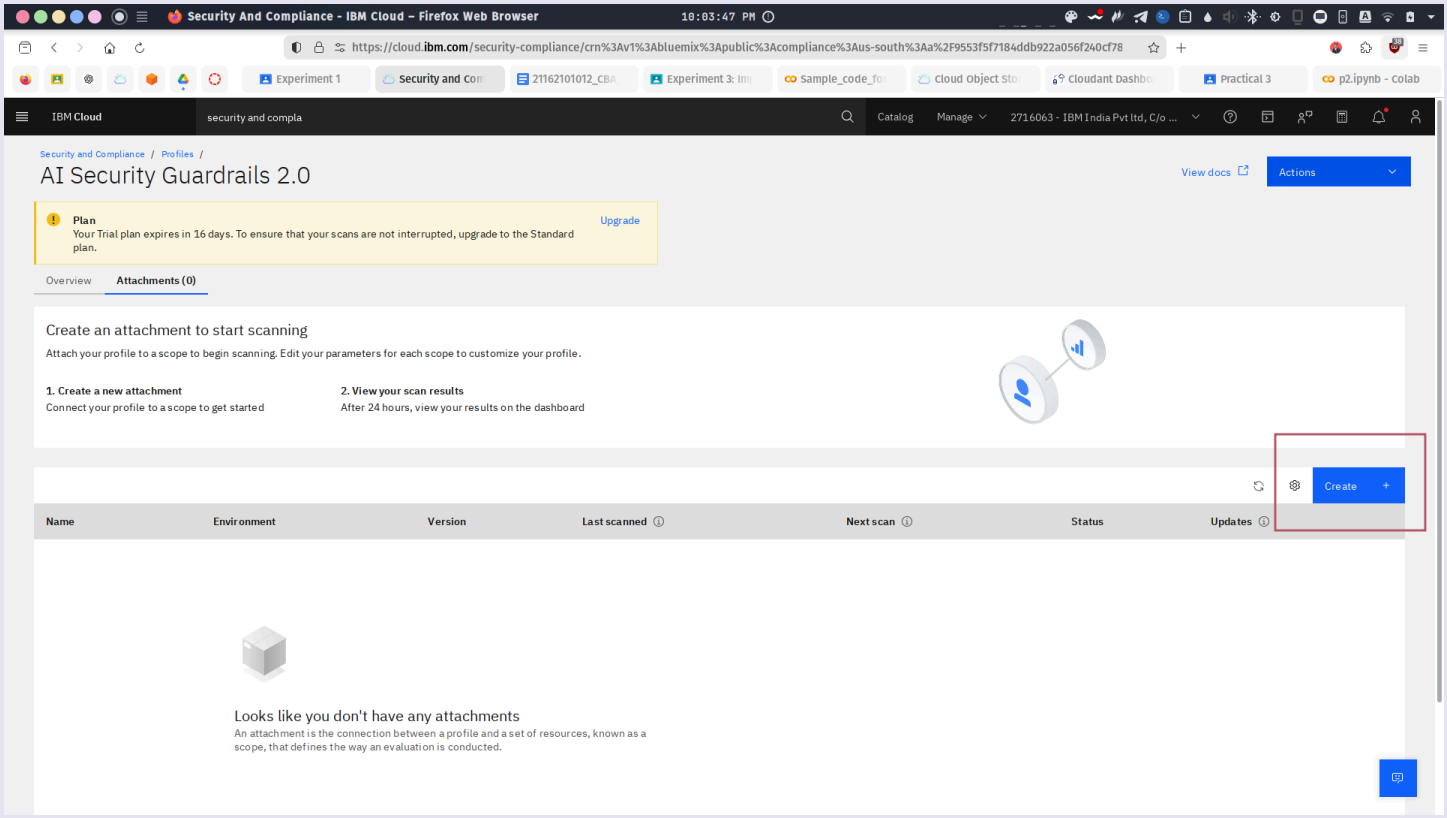
23. Create new attachment



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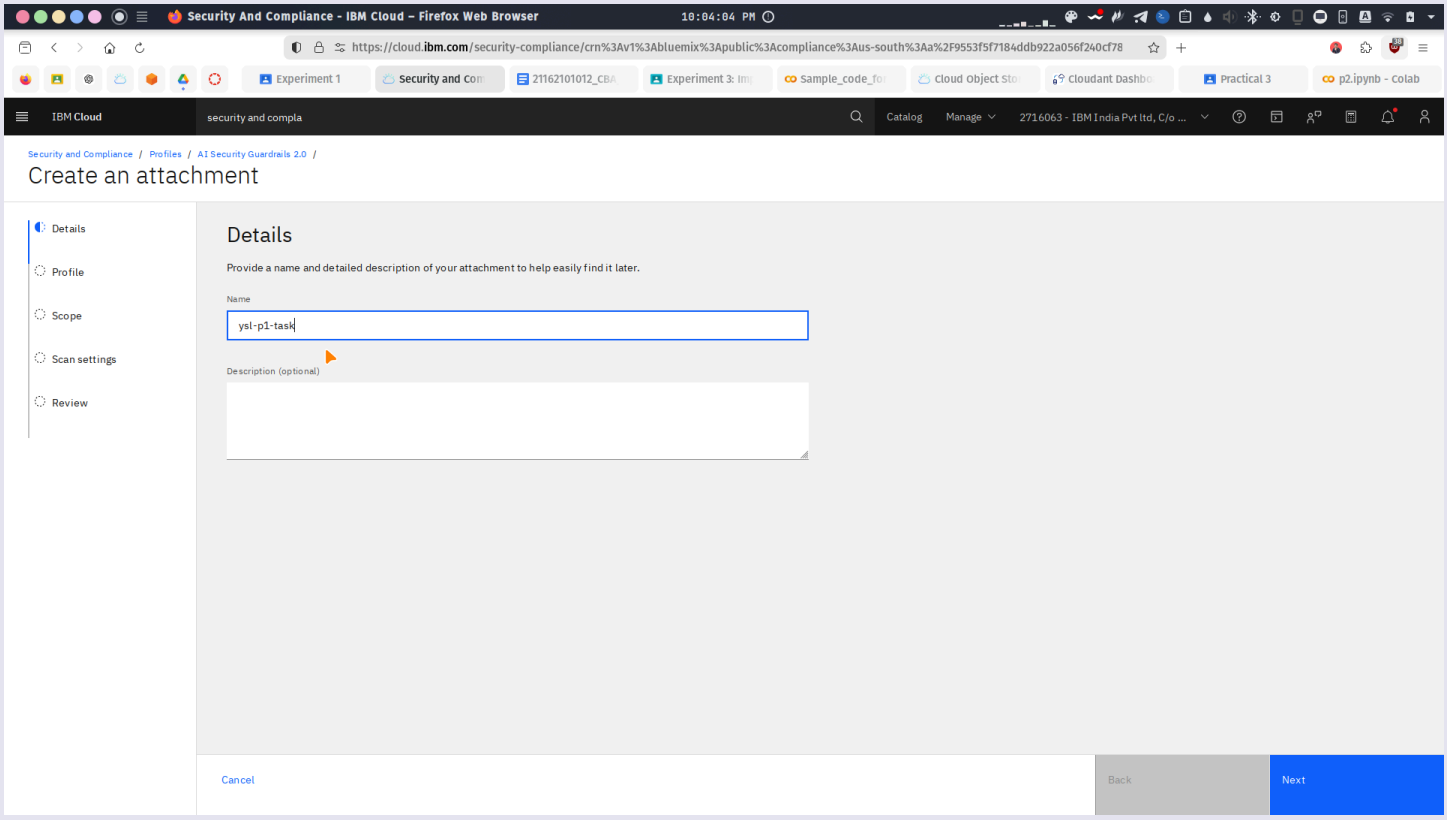

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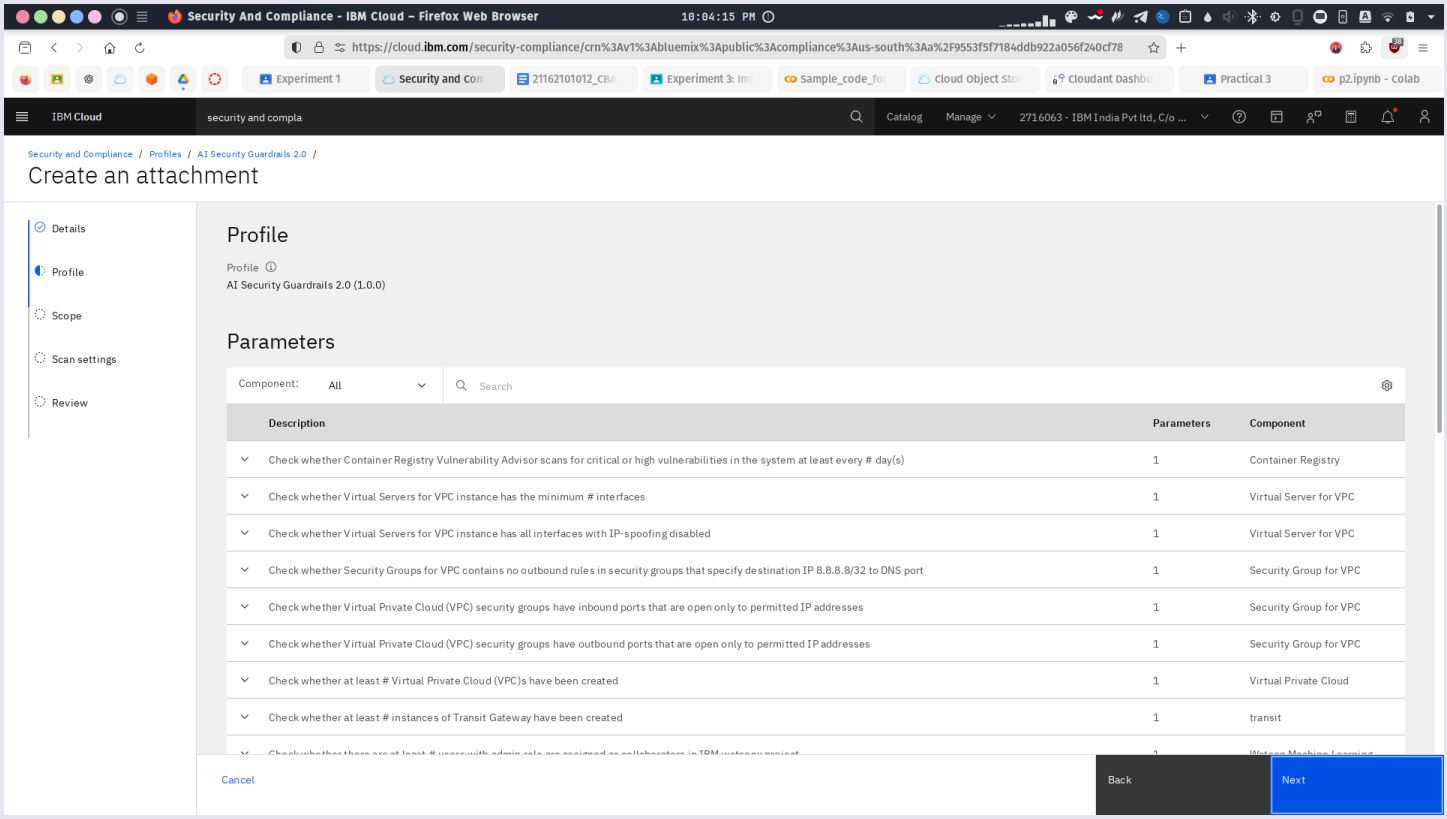
24. Select all parameters and set scan scope and frequency



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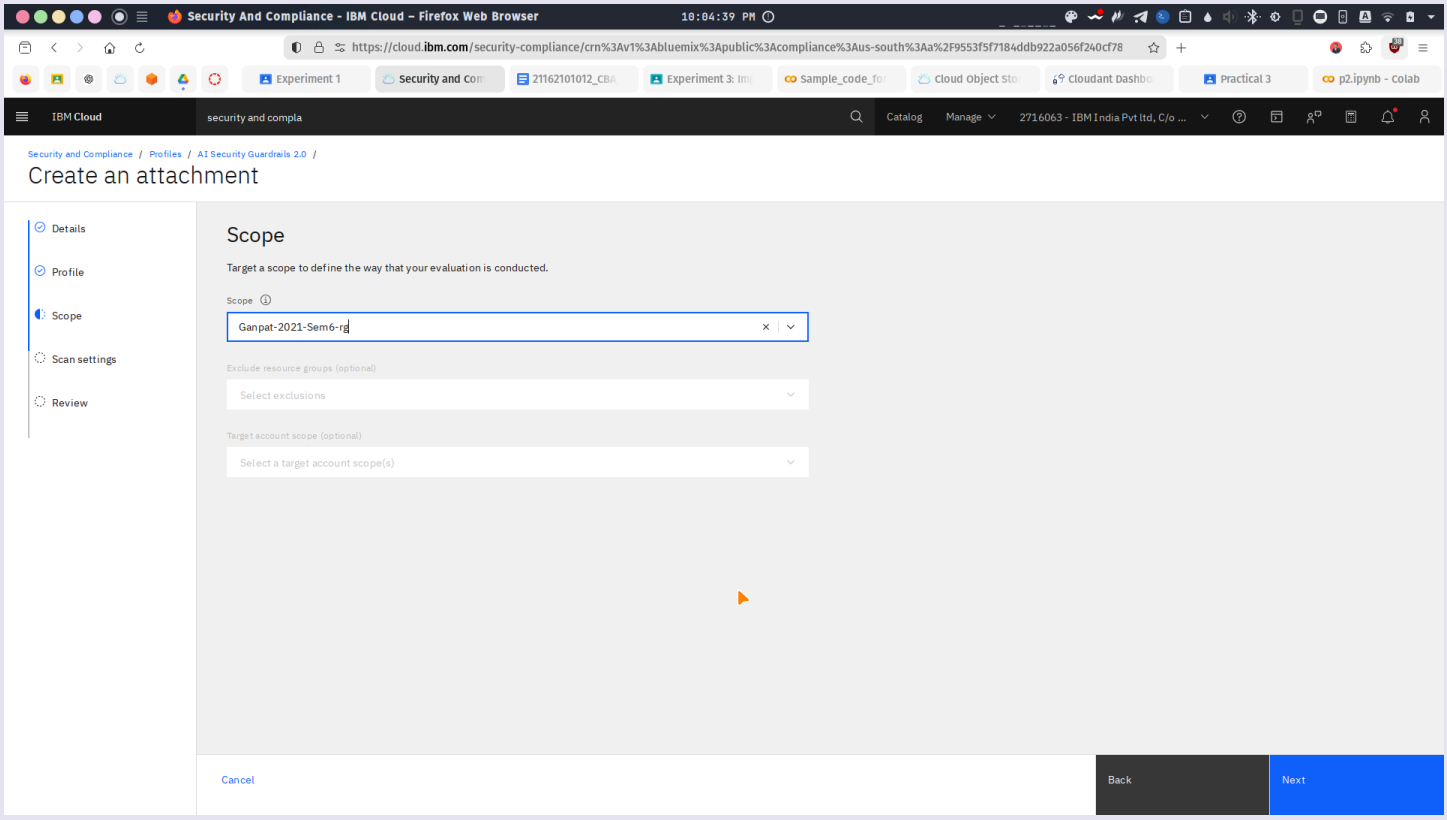

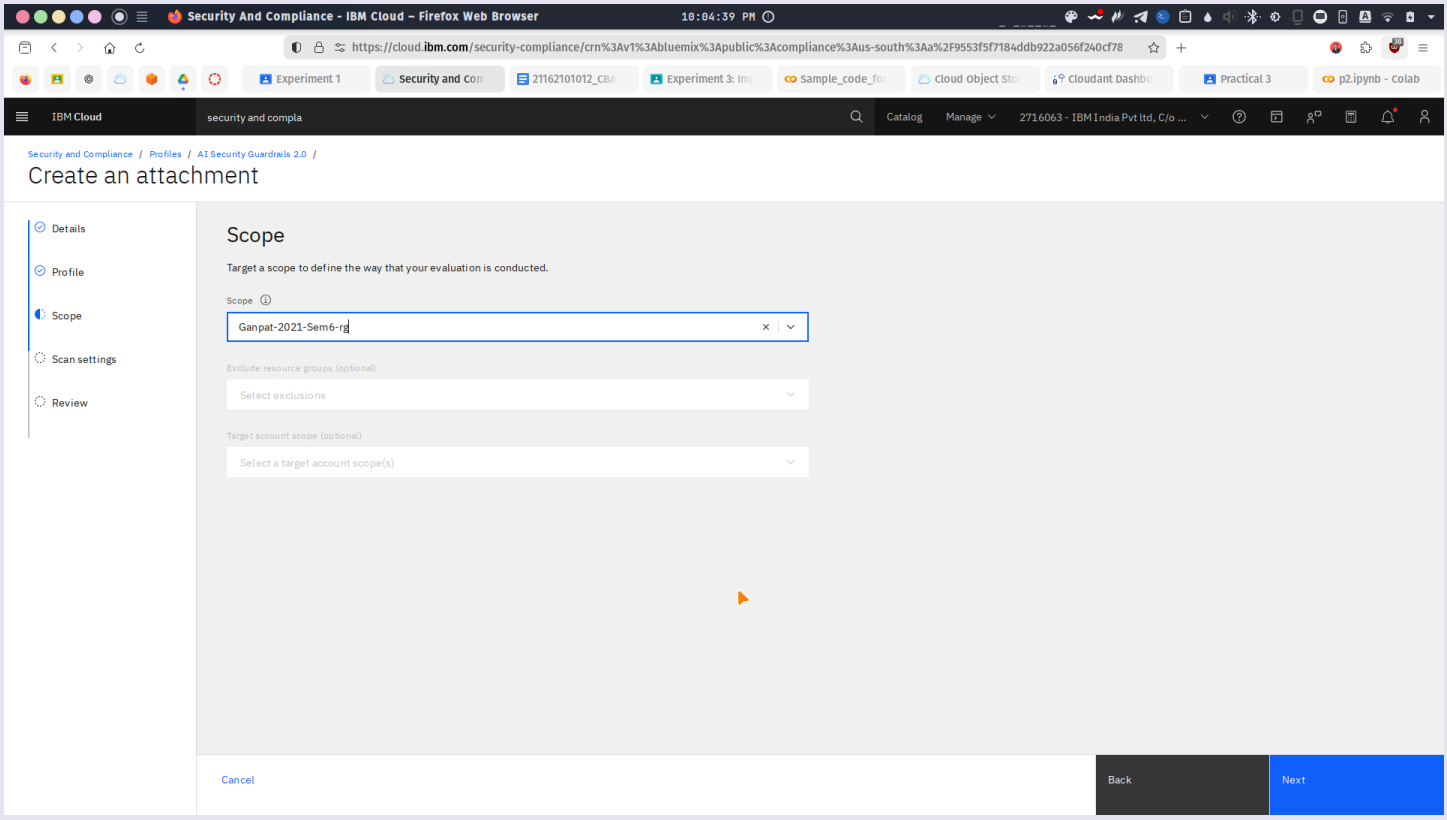

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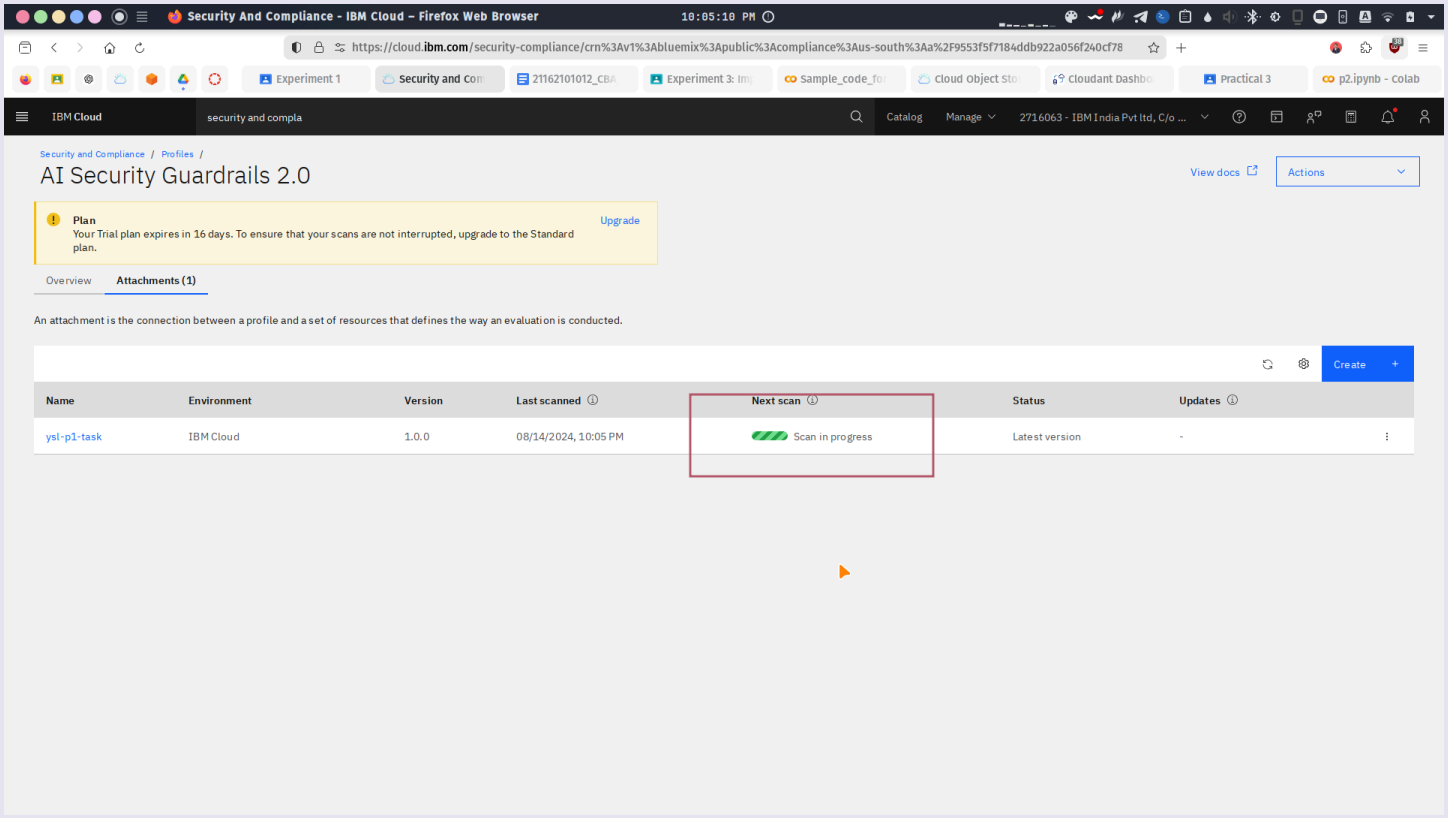
25. It will take time and let the scan finish



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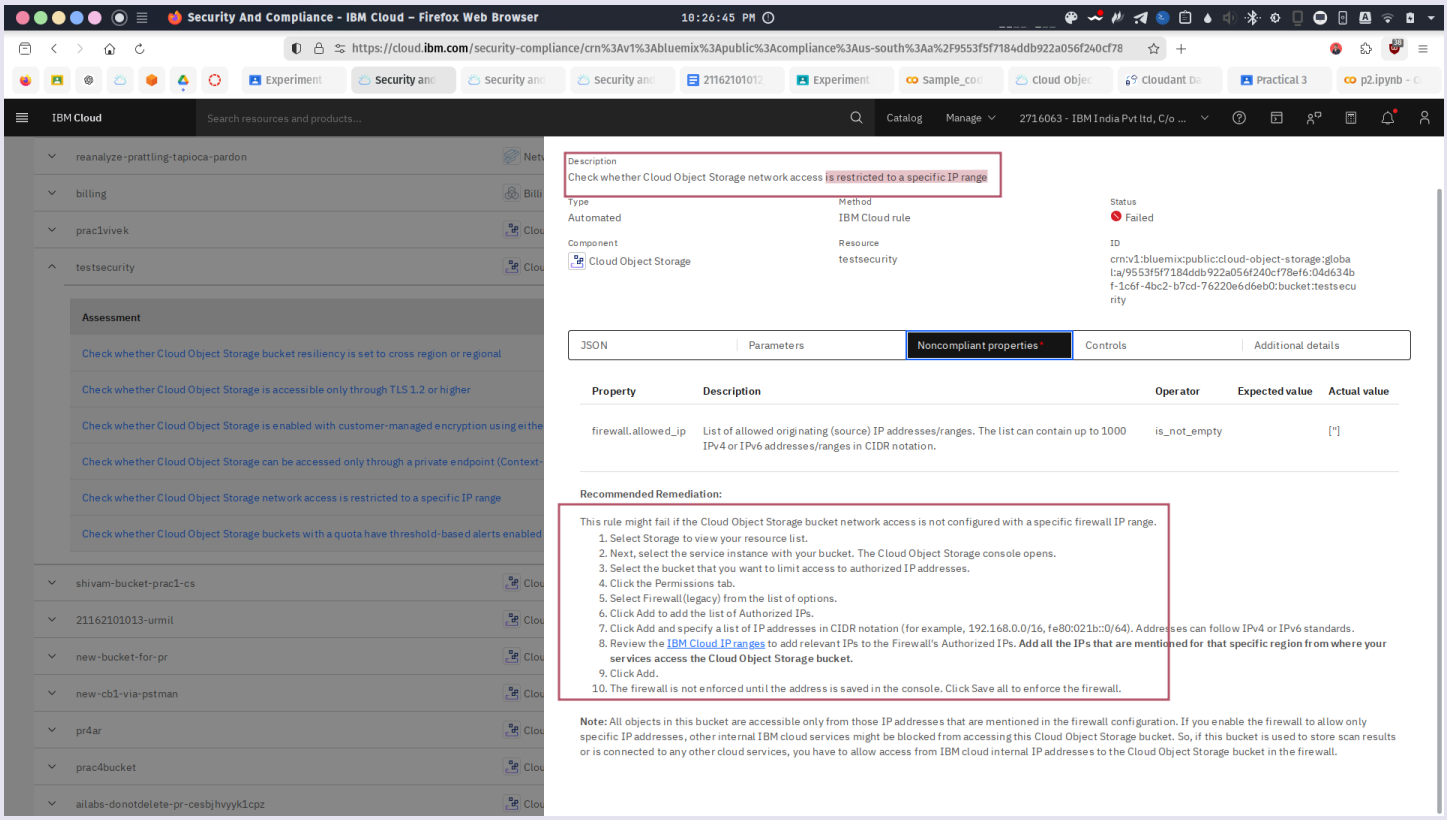
26. After scan completion, check services and security compliances, like here cloud storage bucket should contain firewall for additional security as mentioned in results



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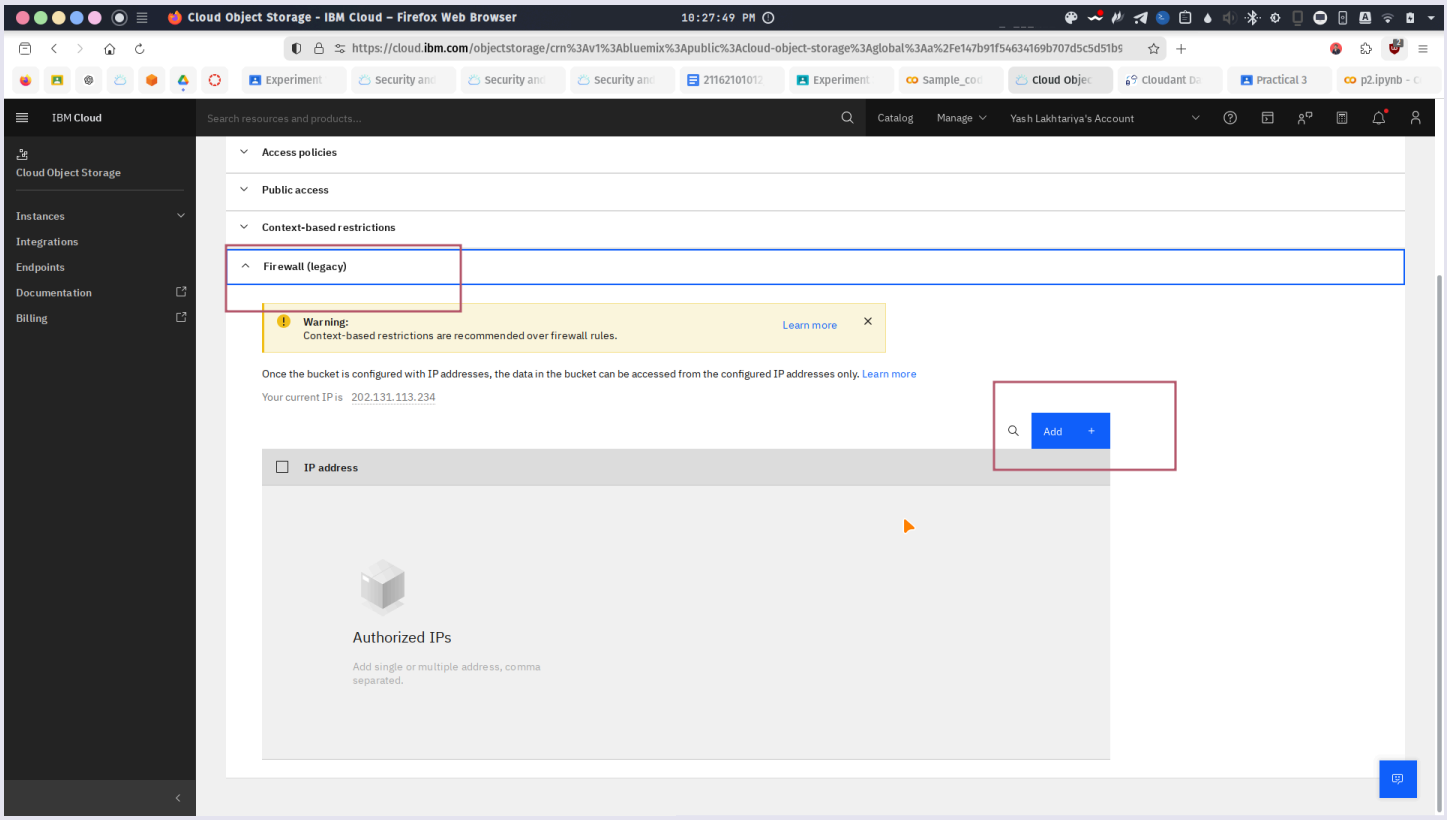
27. Now, it can be solved as mentioned, adding legacy firewall to bucket allowing specific IP addresses or the ranges respectively



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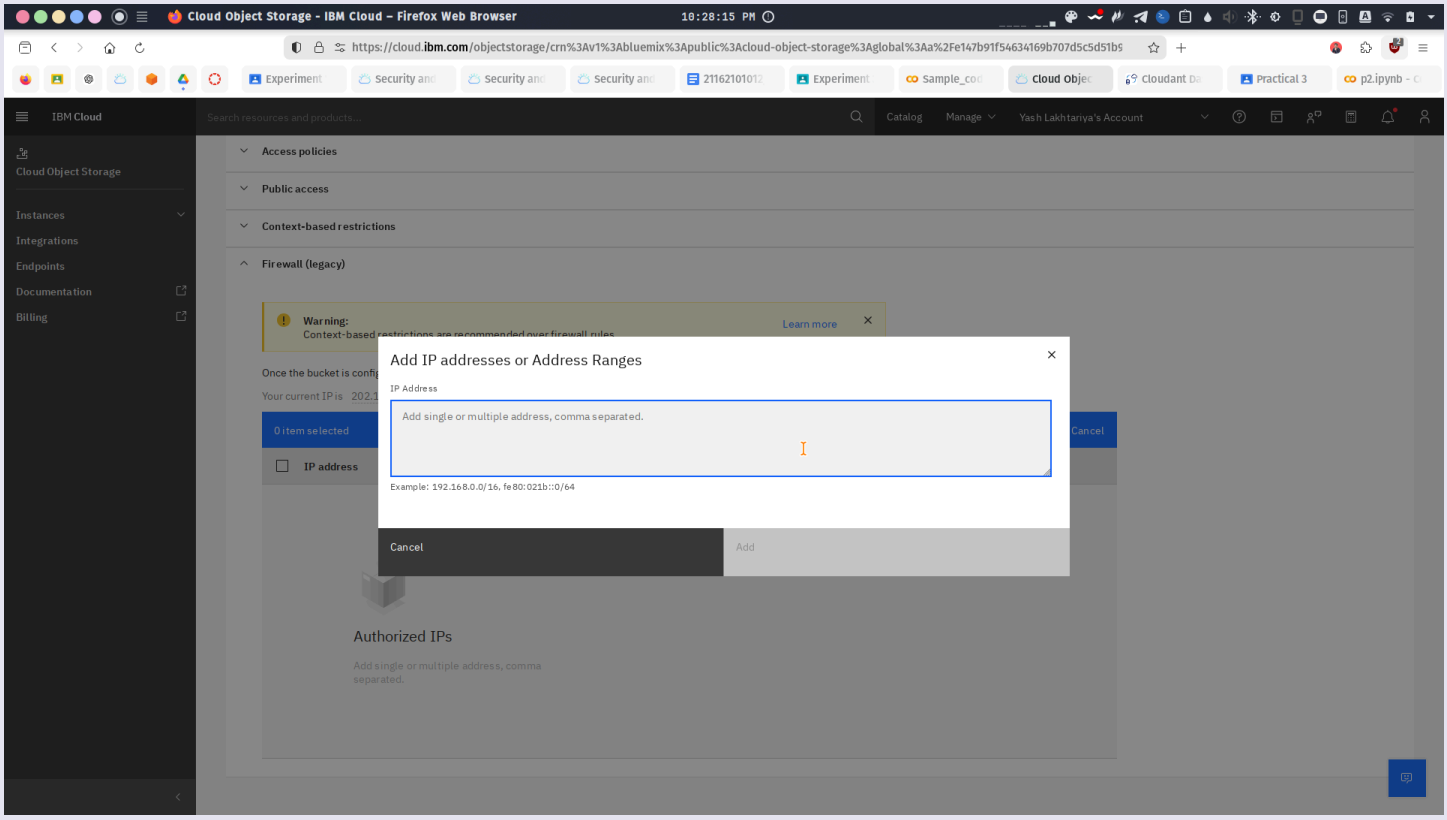

Further solutions can be made as per provided steps and sufficient access to resource groups and respective resources