

AWS Security Hub

Manage and improve your security posture

AWS Security Hub provides a consolidated view of your security status in AWS. Automate security checks, manage security findings, and identify the highest priority security issues across your AWS environment.

- Run automated security checks across your AWS environment
- Prioritize and remediate security issues
- Consolidate security findings from AWS and partner products in a standard format across all of your accounts
- Provides you with a comprehensive view of your security state in AWS and helps you check your environment against security industry standards and best practices
- Collects security data from across AWS accounts, services and supported third party partner products and helps you analyse security trends and identify the highest priority security issues

Benefits and features

Consolidated view of security issues

AWS Security Hub collects and consolidates findings from AWS security services enabled in your environment, such as intrusion detection findings from Amazon GuardDuty, vulnerability scans from Amazon Inspector, and S3 bucket policy findings from Amazon Macie. AWS Security Hub also consolidates findings from integrated AWS Partner Network (APN) security solutions. All findings are stored for at least 90 days within AWS Security Hub.

Automated, continuous security checks

Automate continuous, account and resource-level configuration and security checks using industry standards and best practices. For example, AWS Security Hub automates the Center for Internet Security (CIS) AWS Foundations Benchmark, a set of security configuration best practices for AWS. If any of your accounts or resources











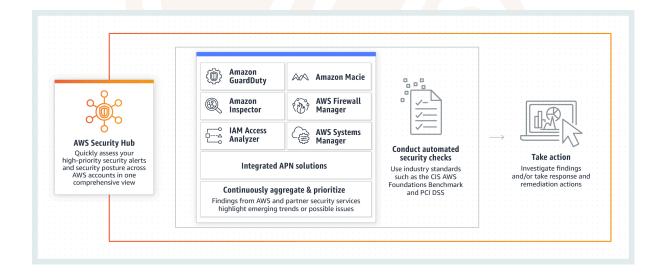
deviate from a best practice, AWS Security Hub flags the problem and recommends remediation steps.

Custom response and remediation actions

AWS Teacit Hub integrates with Amazon CloudWatch events, enabling you to create custom response and remediation workflows. You can easily send findings to SIEMs, chat tools, ticketing systems, Security Orchestration Automation and Response tools, and on-call management platforms. You can also use AWS System Manager Automation documents, AWS Step Functions, and AWS Lambda functions to build automated remediation workflows that can be initiated from Security Hub.

Multi-account support

With a few clicks in the AWS Security Hub console, you can connect multiple AWS accounts and consolidate findings across those accounts. By designating an administrator security account, you can enable your security team to see consolidated findings for all accounts, while individual account owners see only findings associated with their account.







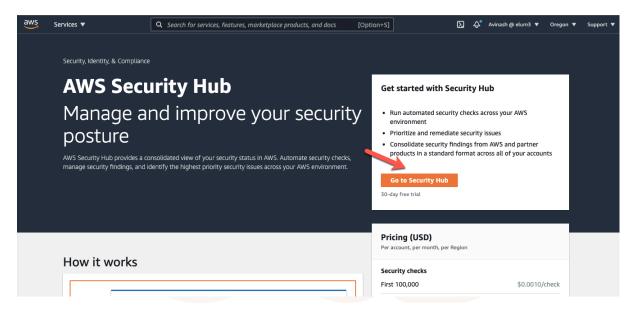






Demo

Navigate to AWS Security hub in AWS Console



- Security Hub requires the following 6 services to be enabled. Since Security hub get data from these services
- If any of the services are not enabled it will show us to enable them in the below screen
- You can enable/disable those services anytime
- In my account Security Hub suggests enabling AWS Config and It shows a download button of a Cloud Formation template. If we deploy that template it enables AWS Config.
- You can delegate access to the Administrator account as well if you have multiple accounts. You can ignore that option if you have only one account to monitor











Enable AWS Security Hub

Enable AWS Config

Before you can enable Security Hub standards and controls, you must first enable resource recording in AWS Config. You must enable resource recording for all of the accounts and in all of the Regions where you plan to enable Security Hub standards and controls. If you do not first enable resource recording, you might experience problems when you enable Security Hub standards and controls. AWS Config bills separately for resource recording. For details, see the AWS Config pricing page.

You can enable resource recording manually from the AWS Config console, or you can choose Download to download and then deploy an AWS CloudFormation template as a StackSet. See our documentation for more details.



Download

Security standards

Enabling AWS Security Hub grants it permissions to conduct security checks. Service Linked Roles (SLRs) with the following services are used to conduct security checks: Amazon CloudWatch, Amazon SNS, AWS Config, and AWS CloudTrail.

- Enable AWS Foundational Security Best Practices v1.0.0
- Enable CIS AWS Foundations Benchmark v1.2.0
- ✓ Enable PCI DSS v3.2.1

AWS Integrations

Enabling Security Hub grants it permissions to import findings from AWS services that you have enabled. Learn more [2]



Cancel

Enable Security Hub

Delegated Administrator Info

Delegate permission to manage Security Hub for this organization.

Delegated administrator account ID

464599248654

Security Hub will be enabled on this account and will be assigned a service-linked role that is required to administer Security Hub for you organization. Learn more

Delegate



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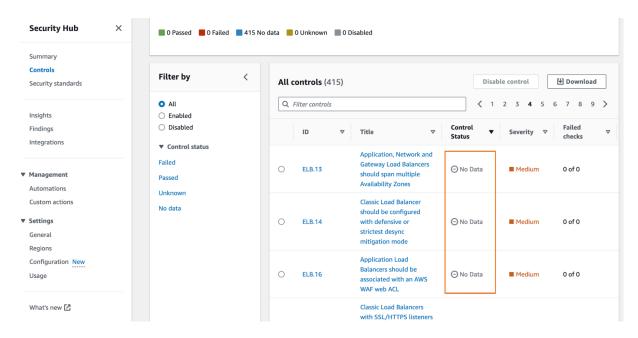
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Note:

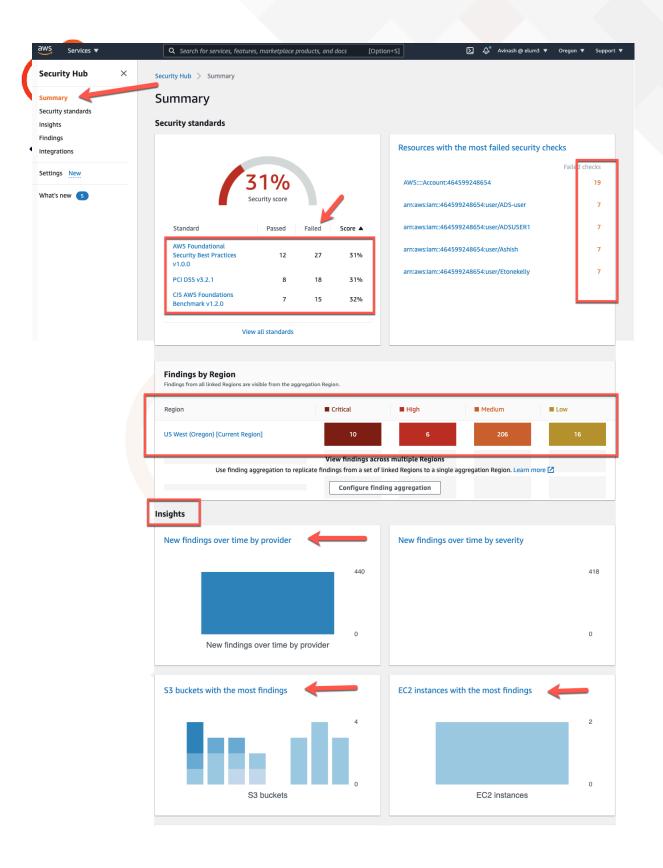
After you enable Security Hub, it can take up to 2 hours to see the results from security checks for the newly enabled standards. Until then, the controls have a status of "No data".



- The main security hub page gives us the summary of all the resources if any security vulnerabilities are detected
- You can click on each section to view more details





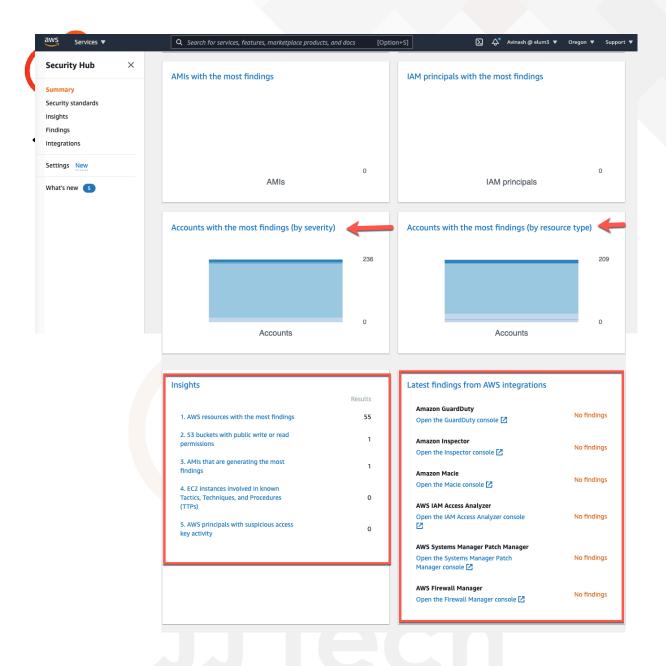








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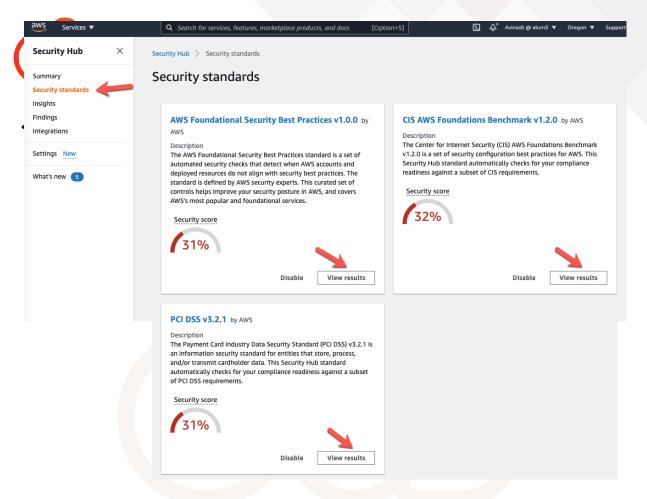








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- We have checked 3 security standards while we enable Security Hub
- You can view results on each Security Standards
- You can Enable/Disable them
- In the below picture you can see the results from "AWS Foundational Security best Practices v1.0.0"
- You can see 27 failed compliances
- You can view remediation instructions on each and every failed compliance

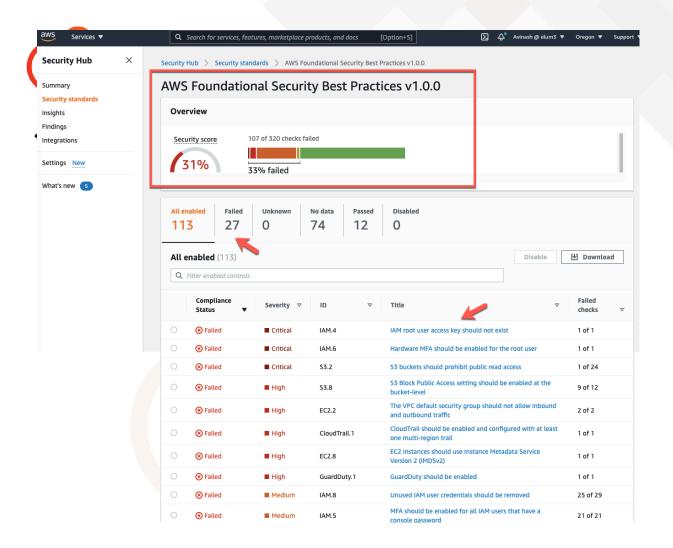












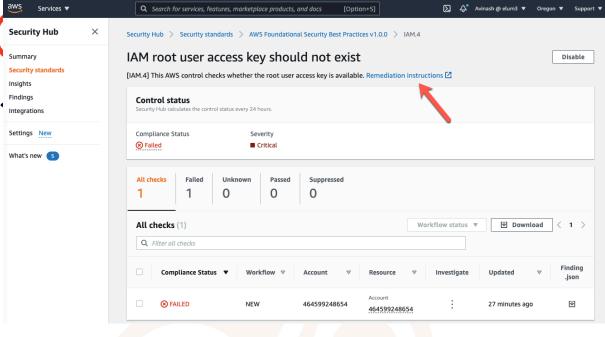


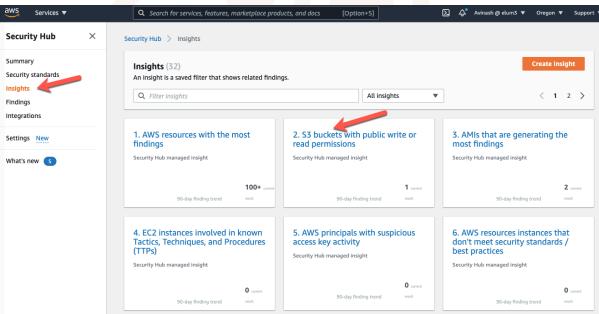




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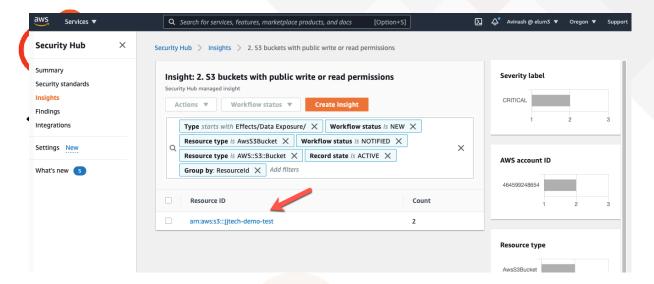




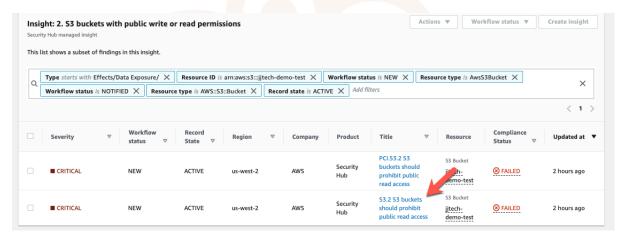


- We can see findings based on resources in insights
- For example we select "S3 buckets with public write or read permissions"





There is a security finding with the bucket name "jjtech-demo-test"

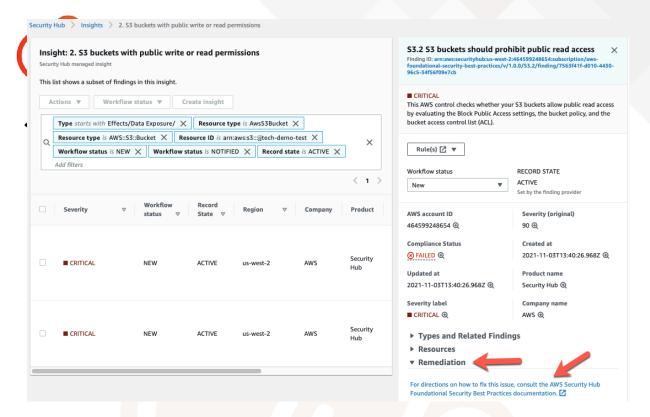




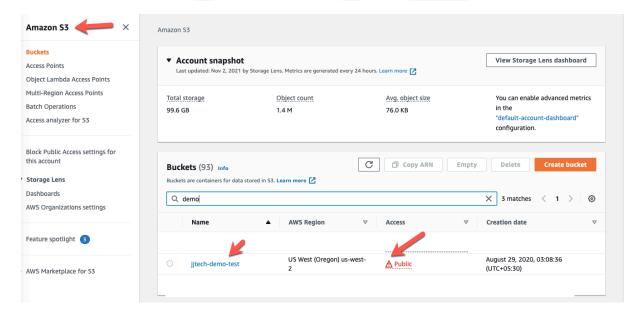








- You can find remediations on each insights.
- There are two critical findings on the bucket named "jjtech-demo-test"
 - o One PCI and the other is standard
 - o Issue: The bucket is public





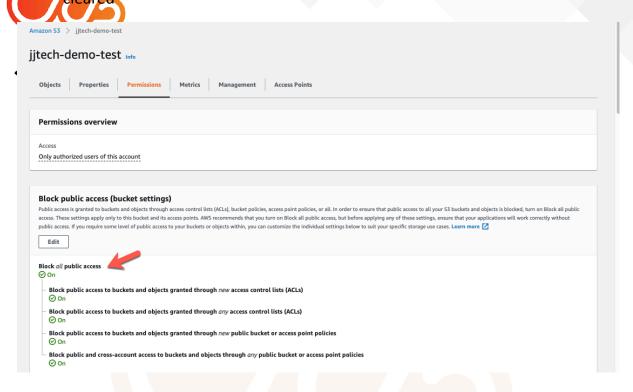




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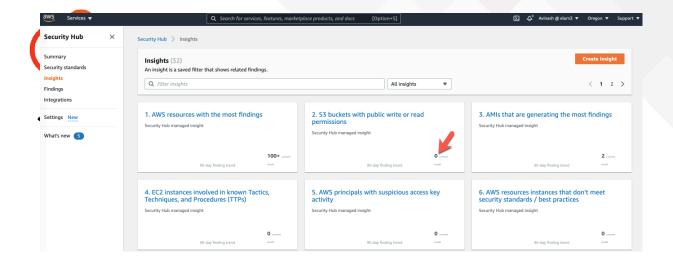
Let's make the bucket private and refresh the s3 insights . So that S3 should be cleared



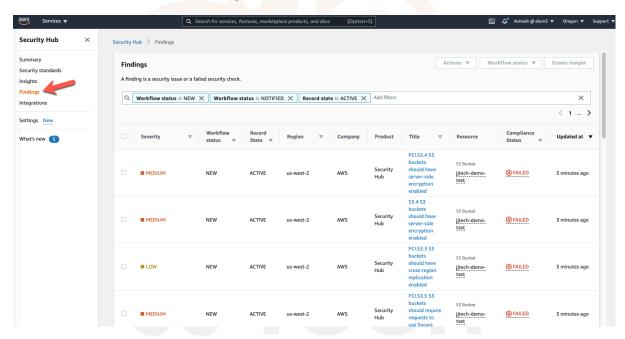
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• Once I make the bucket to private. S3 insight is resolved in Security Hub.





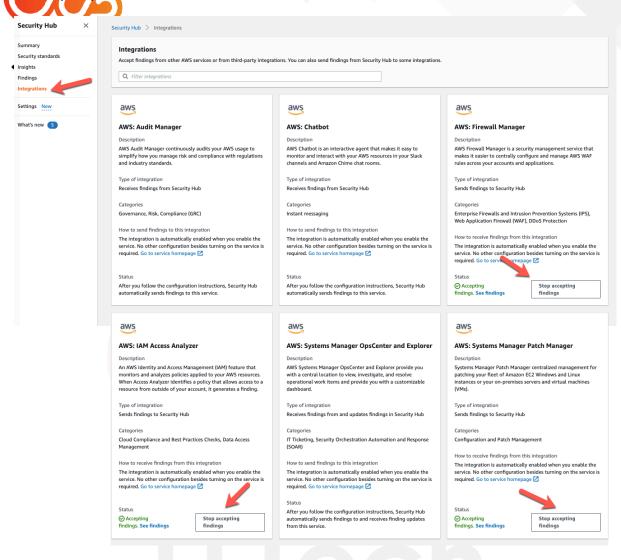
You can see all the findings below



• You can integrate with other resources with security hub.



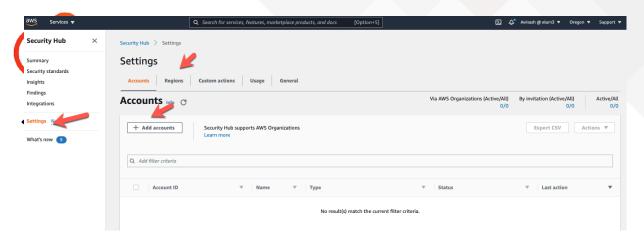
You can stop/start accepting findings from other AWS resources and third party tools











- In the settings section
 - o You can add multiple accounts
 - o You can add multiple regions







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