

The image features three green 3D cubes on a gray background. One cube is positioned at the top center, and another is at the bottom center. A third cube is located in the middle, behind the main title, with its front face partially obscured by the text. The cubes are rendered with soft shadows, giving them a three-dimensional appearance.

# AWS Trusted Advisor

Week 6.2

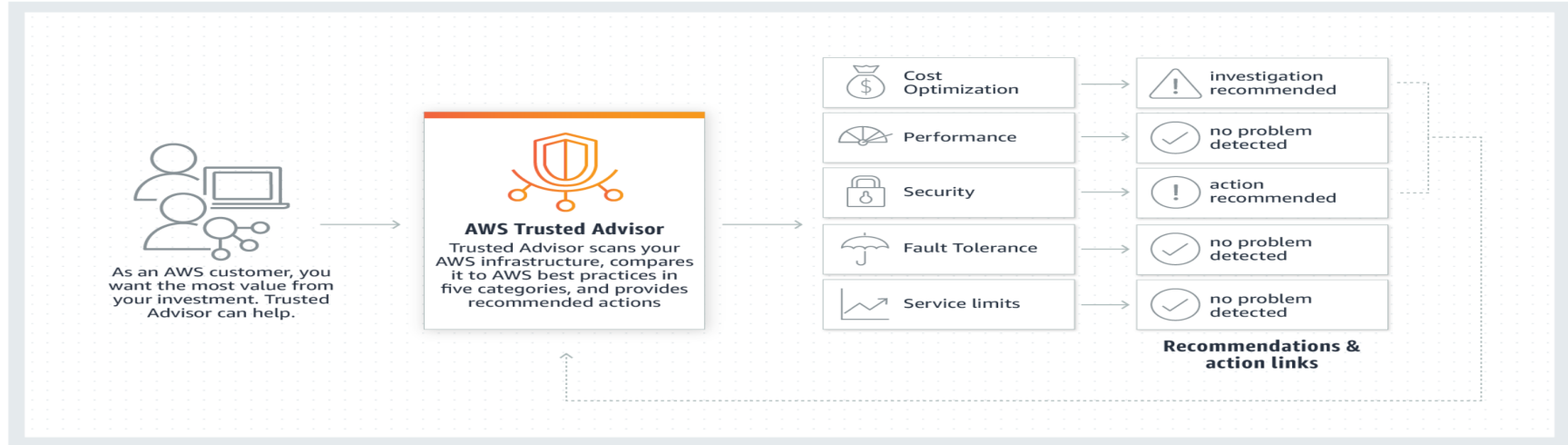
# What you will Learn

- Describe AWS Trusted Advisor.
- Explore the five categories of recommendations produced by Trusted Advisor.
- Highlight the features of Trusted Advisor.
- Interpret Trusted Advisor recommendations.

# Introduction to AWS Trusted Advisor

- AWS Trusted Advisor provides recommendations that help you follow AWS best practices.
- Trusted Advisor evaluates your account by using checks.
- These checks identify ways to optimize your AWS infrastructure, improve security and performance, reduce costs, and monitor service quotas.
- You can then follow the check recommendations to optimize your services and resources.
- It provides best practices (or checks) in five categories:
- **Cost Optimization** – How you can save money on AWS by reducing unused and idle resources, or making commitments to reserved capacity.
- **Performance** – Improve the performance of your service by checking your service ff, ensuring that you take advantage of provisioned throughput, and monitoring for overutilized instances.
- **Security** – Improve the security of your application by closing gaps, enabling various AWS security features, and examining your permissions.

# Introduction to AWS Trusted Advisor



- **Fault Tolerance** - Increase the availability and redundancy of your AWS application by taking advantage of automatic scaling, health checks, multiple Availability Zones, and backup capabilities.
- **Service Quotas** - Service quotas are the maximum number of resources that you can create in an AWS account. Trusted Advisor will notify you once you reach more than 80% of a service

# Introduction to AWS Trusted Advisor



- The status of the check is shown by using color-coding on the dashboard page:
- **Red** (red exclamation mark) – Action is recommended.
- **Yellow** (yellow exclamation mark) – Investigation is recommended.
- **Green** (green checkmark) – No problem has been detected.

# Using AWS Trusted Advisor

- AWS Trusted Advisor provides popular performance and security recommendations to all AWS customers. The following Trusted Advisor checks are available to all customers at no cost:
  - Service quotas
  - Security groups – Specific ports unrestricted
  - AWS Identity and Access Management (IAM) use
  - Multi-factor authentication (MFA) on the root account
  - Amazon Elastic Block Store (Amazon EBS) public snapshots
  - Amazon Relational Database Service (Amazon RDS) public snapshots
- The complete set of checks and guidance is available with Business Support and Enterprise Support plans.
- AWS Trusted Advisor helps you to provision your resources by following best practices.
- Using this capability, you can improve system performance and reliability, increase security, and look for opportunities to save money.

# Trusted Advisor Features

- AWS Trusted Advisor provides a suite of features so you can customize recommendations and proactively monitor your AWS resources:
- **Trusted Advisor Notifications** – Stay up to date with your AWS resource deployment. You will be notified by a weekly email message when you use this service.
- **AWS Identity and Access Management (IAM)** – Control access to specific checks or check categories.
- **AWS Support application programming interface (API)** – Retrieve and refresh Trusted Advisor results programmatically.
- **Action Links** – Hyperlinks on items in a Trusted Advisor report that take you directly to the console. From the console, you can implement the Trusted Advisor recommendations.
- **Recent Changes** – Track recent changes in check status on the console dashboard. The most recent changes appear at the top of the list to bring them to your attention.

# Trusted Advisor Features

- **Exclude Items** – Customize the Trusted Advisor report. You can exclude items from the check result if they are not relevant.
- **Refresh All** – Refresh individual checks or refresh all the checks at once by selecting Refresh All in the top-right corner of the summary dashboard. A check is eligible for a 5-minute refresh after it was last refreshed.



# Key Takeaways

- AWS Trusted Advisor is an online tool that provides real-time guidance to help you provision, optimize, and secure your resources by following AWS best practices.
- Examples of Trusted Advisor security checks and advice include:
  - Making sure that security groups do not keep ports open with unrestricted access.
  - Checking for your use of AWS Identity and Access Management (IAM) permissions to control access to AWS resources.
  - Checking the root account and warning if multi-factor authentication (MFA) is not enabled.
  - Checking that logging is enabled on Amazon Simple Storage Service (Amazon S3) buckets