
AWS Well-Architected Tool

API Reference

API Version 2020-03-31



AWS Well-Architected Tool: API Reference

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Welcome

This is the *AWS Well-Architected Tool API Reference*. The AWS WA Tool API provides programmatic access to the [AWS Well-Architected Tool](#) in the [AWS Management Console](#). For information about the AWS Well-Architected Tool, see the [AWS Well-Architected Tool User Guide](#).

This document was last published on June 6, 2022.

Actions

The following actions are supported:

- [AssociateLenses](#) (p. 4)
- [CreateLensShare](#) (p. 6)
- [CreateLensVersion](#) (p. 9)
- [CreateMilestone](#) (p. 12)
- [CreateWorkload](#) (p. 15)
- [CreateWorkloadShare](#) (p. 21)
- [DeleteLens](#) (p. 24)
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- [UpdateShareInvitation](#) (p. 109)
- [UpdateWorkload](#) (p. 112)
- [UpdateWorkloadShare](#) (p. 118)
- [UpgradeLensReview](#) (p. 121)

AssociateLenses

Associate a lens to a workload.

Up to 10 lenses can be associated with a workload in a single API operation. A maximum of 20 lenses can be associated with a workload.

Note

Disclaimer

By accessing and/or applying custom lenses created by another AWS user or account, you acknowledge that custom lenses created by other users and shared with you are Third Party Content as defined in the AWS Customer Agreement.

Request Syntax

```
PATCH /workloads/WorkloadId/associateLenses HTTP/1.1
Content-type: application/json
```

```
{
  "LensAliases": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[WorkloadId \(p. 4\)](#)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: [0-9a-f]{32}

Required: Yes

Request Body

The request accepts the following data in JSON format.

[LensAliases \(p. 4\)](#)

List of lens aliases to associate or disassociate with a workload. Up to 10 lenses can be specified.

Identify a lens using its [LensSummary: LensAlias \(p. 147\)](#).

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateLensShare

Create a lens share.

The owner of a lens can share it with other AWS accounts and IAM users in the same AWS Region. Shared access to a lens is not removed until the lens invitation is deleted.

Note

Disclaimer

By sharing your custom lenses with other AWS accounts, you acknowledge that AWS will make your custom lenses available to those other accounts. Those other accounts may continue to access and use your shared custom lenses even if you delete the custom lenses from your own AWS account or terminate your AWS account.

Request Syntax

```
POST /lenses/LensAlias/shares HTTP/1.1
Content-type: application/json

{
  "ClientRequestToken": "string",
  "SharedWith": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[LensAlias \(p. 6\)](#)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 6\)](#)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Type: String

Required: Yes

SharedWith (p. 6)

The AWS account ID or IAM role with which the workload is shared.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 2048.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "ShareId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ShareId (p. 7)

The ID associated with the workload share.

Type: String

Pattern: [0-9a-f]{32}

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerError

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The user has reached their resource quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateLensVersion

Create a new lens version.

A lens can have up to 100 versions.

After a lens has been imported, create a new lens version to publish it. The owner of a lens can share the lens with other AWS accounts and IAM users in the same AWS Region. Only the owner of a lens can delete it.

Request Syntax

```
POST /lenses/LensAlias/versions HTTP/1.1
Content-type: application/json

{
  "ClientRequestToken": "string",
  "IsMajorVersion": boolean,
  "LensVersion": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[LensAlias \(p. 9\)](#)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 9\)](#)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Type: String

Required: Yes

IsMajorVersion (p. 9)

Set to true if this new major lens version.

Type: Boolean

Required: No

LensVersion (p. 9)

The version of the lens being created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LensArn": "string",
  "LensVersion": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LensArn (p. 10)

The ARN for the lens.

Type: String

LensVersion (p. 10)

The version of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The user has reached their resource quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateMilestone

Create a milestone for an existing workload.

Request Syntax

```
POST /workloads/WorkloadId/milestones HTTP/1.1
Content-type: application/json

{
  "ClientRequestToken": "string",
  "MilestoneName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

WorkloadId (p. 12)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: [0-9a-f]{32}

Required: Yes

Request Body

The request accepts the following data in JSON format.

ClientRequestToken (p. 12)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Type: String

Required: Yes

MilestoneName (p. 12)

The name of the milestone in a workload.

Milestone names must be unique within a workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "MilestoneNumber": number,
  "WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MilestoneNumber (p. 13)

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

WorkloadId (p. 13)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The user has reached their resource quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateWorkload

Create a new workload.

The owner of a workload can share the workload with other AWS accounts and IAM users in the same AWS Region. Only the owner of a workload can delete it.

For more information, see [Defining a Workload](#) in the *AWS Well-Architected Tool User Guide*.

Request Syntax

```
POST /workloads HTTP/1.1
Content-type: application/json

{
  "AccountIds": [ "string" ],
  "ArchitecturalDesign": "string",
  "AwsRegions": [ "string" ],
  "ClientRequestToken": "string",
  "Description": "string",
  "Environment": "string",
  "Industry": "string",
  "IndustryType": "string",
  "Lenses": [ "string" ],
  "NonAwsRegions": [ "string" ],
  "Notes": "string",
  "PillarPriorities": [ "string" ],
  "ReviewOwner": "string",
  "Tags": {
    "string" : "string"
  },
  "WorkloadName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[AccountIds \(p. 15\)](#)

The list of AWS account IDs associated with the workload.

Type: Array of strings

Array Members: Maximum number of 100 items.

Pattern: [0-9] { 12 }

Required: No

[ArchitecturalDesign \(p. 15\)](#)

The URL of the architectural design for the workload.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

AwsRegions (p. 15)

The list of AWS Regions associated with the workload, for example, `us-east-2`, or `ca-central-1`.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Maximum length of 100.

Required: No

ClientRequestToken (p. 15)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Type: String

Required: Yes

Description (p. 15)

The description for the workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 250.

Required: Yes

Environment (p. 15)

The environment for the workload.

Type: String

Valid Values: `PRODUCTION` | `PREPRODUCTION`

Required: Yes

Industry (p. 15)

The industry for the workload.

Type: String

Length Constraints: Maximum length of 100.

Required: No

IndustryType (p. 15)

The industry type for the workload.

If specified, must be one of the following:

- Agriculture
- Automobile
- Defense
- Design and Engineering
- Digital Advertising
- Education
- Environmental Protection
- Financial Services
- Gaming
- General Public Services
- Healthcare
- Hospitality
- InfoTech
- Justice and Public Safety
- Life Sciences
- Manufacturing
- Media & Entertainment
- Mining & Resources
- Oil & Gas
- Power & Utilities
- Professional Services
- Real Estate & Construction
- Retail & Wholesale
- Social Protection
- Telecommunications
- Travel, Transportation & Logistics
- Other

Type: String

Length Constraints: Maximum length of 100.

Required: No

Lenses (p. 15)

The list of lenses associated with the workload. Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

NonAwsRegions (p. 15)

The list of non-AWS Regions associated with the workload.

Type: Array of strings

Array Members: Maximum number of 5 items.

Length Constraints: Minimum length of 3. Maximum length of 25.

Required: No

Notes (p. 15)

The notes associated with the workload.

Type: String

Length Constraints: Maximum length of 2084.

Required: No

PillarPriorities (p. 15)

The priorities of the pillars, which are used to order items in the improvement plan. Each pillar is represented by its [PillarReviewSummary:PillarId \(p. 155\)](#).

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

ReviewOwner (p. 15)

The review owner of the workload. The name, email address, or identifier for the primary group or individual that owns the workload review process.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: Yes

Tags (p. 15)

The tags to be associated with the workload.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

WorkloadName (p. 15)

The name of the workload.

The name must be unique within an account within an AWS Region. Spaces and capitalization are ignored when checking for uniqueness.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: Yes

Response Syntax

HTTP/1.1 200

```
Content-type: application/json
```

```
{  
  "WorkloadArn": "string",  
  "WorkloadId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

WorkloadArn (p. 18)

The ARN for the workload.

Type: String

WorkloadId (p. 18)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ServiceQuotaExceededException

The user has reached their resource quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateWorkloadShare

Create a workload share.

The owner of a workload can share it with other AWS accounts and IAM users in the same AWS Region. Shared access to a workload is not removed until the workload invitation is deleted.

For more information, see [Sharing a Workload](#) in the *AWS Well-Architected Tool User Guide*.

Request Syntax

```
POST /workloads/WorkloadId/shares HTTP/1.1
Content-type: application/json
```

```
{
  "ClientRequestToken": "string",
  "PermissionType": "string",
  "SharedWith": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

WorkloadId (p. 21)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

ClientRequestToken (p. 21)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Type: String

Required: Yes

PermissionType (p. 21)

Permission granted on a workload share.

Type: String

Valid Values: READONLY | CONTRIBUTOR

Required: Yes

SharedWith (p. 21)

The AWS account ID or IAM role with which the workload is shared.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 2048.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "ShareId": "string",
  "WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ShareId (p. 22)

The ID associated with the workload share.

Type: String

Pattern: `[0-9a-f]{32}`

WorkloadId (p. 22)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The user has reached their resource quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteLens

Delete an existing lens.

Only the owner of a lens can delete it. After the lens is deleted, AWS accounts and IAM users that you shared the lens with can continue to use it, but they will no longer be able to apply it to new workloads.

Note

Disclaimer

By sharing your custom lenses with other AWS accounts, you acknowledge that AWS will make your custom lenses available to those other accounts. Those other accounts may continue to access and use your shared custom lenses even if you delete the custom lenses from your own AWS account or terminate your AWS account.

Request Syntax

```
DELETE /lenses/LensAlias?ClientRequestToken=ClientRequestToken&LensStatus=LensStatus
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ClientRequestToken (p. 24)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Required: Yes

LensAlias (p. 24)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias](#) (p. 147).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

LensStatus (p. 24)

The status of the lens to be deleted.

Valid Values: `ALL` | `DRAFT` | `PUBLISHED`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteLensShare

Delete a lens share.

After the lens share is deleted, AWS accounts and IAM users that you shared the lens with can continue to use it, but they will no longer be able to apply it to new workloads.

Note

Disclaimer

By sharing your custom lenses with other AWS accounts, you acknowledge that AWS will make your custom lenses available to those other accounts. Those other accounts may continue to access and use your shared custom lenses even if you delete the custom lenses from your own AWS account or terminate your AWS account.

Request Syntax

```
DELETE /lenses/LensAlias/shares/ShareId?ClientRequestToken=ClientRequestToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ClientRequestToken \(p. 27\)](#)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Required: Yes

[LensAlias \(p. 27\)](#)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

[ShareId \(p. 27\)](#)

The ID associated with the workload share.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

`HTTP/1.1 200`

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteWorkload

Delete an existing workload.

Request Syntax

```
DELETE /workloads/WorkloadId?ClientRequestToken=ClientRequestToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ClientRequestToken (p. 30)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Required: Yes

WorkloadId (p. 30)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 176).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteWorkloadShare

Delete a workload share.

Request Syntax

```
DELETE /workloads/WorkloadId/shares/ShareId?ClientRequestToken=ClientRequestToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ClientRequestToken \(p. 32\)](#)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Required: Yes

[ShareId \(p. 32\)](#)

The ID associated with the workload share.

Pattern: `[0-9a-f]{32}`

Required: Yes

[WorkloadId \(p. 32\)](#)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateLenses

Disassociate a lens from a workload.

Up to 10 lenses can be disassociated from a workload in a single API operation.

Note

The AWS Well-Architected Framework lens (`wellarchitected`) cannot be removed from a workload.

Request Syntax

```
PATCH /workloads/WorkloadId/disassociateLenses HTTP/1.1
Content-type: application/json

{
  "LensAliases": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

WorkloadId (p. 34)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

LensAliases (p. 34)

List of lens aliases to associate or disassociate with a workload. Up to 10 lenses can be specified.

Identify a lens using its [LensSummary: LensAlias \(p. 147\)](#).

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ExportLens

Export an existing lens.

Lenses are defined in JSON. For more information, see [JSON format specification](#) in the *AWS Well-Architected Tool User Guide*. Only the owner of a lens can export it.

Note

Disclaimer

Do not include or gather personal identifiable information (PII) of end users or other identifiable individuals in or via your custom lenses. If your custom lens or those shared with you and used in your account do include or collect PII you are responsible for: ensuring that the included PII is processed in accordance with applicable law, providing adequate privacy notices, and obtaining necessary consents for processing such data.

Request Syntax

```
GET /lenses/LensAlias/export?LensVersion=LensVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[LensAlias \(p. 36\)](#)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

[LensVersion \(p. 36\)](#)

The lens version to be exported.

Length Constraints: Minimum length of 1. Maximum length of 32.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LensJSON": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LensJSON (p. 36)

The JSON for the lens.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 500000.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetAnswer

Get the answer to a specific question in a workload review.

Request Syntax

```
GET /workloads/WorkloadId/lensReviews/LensAlias/answers/QuestionId?  
MilestoneNumber=MilestoneNumber HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

LensAlias (p. 38)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

MilestoneNumber (p. 38)

The milestone number.

A workload can have a maximum of 100 milestones.

Valid Range: Minimum value of 1. Maximum value of 100.

QuestionId (p. 38)

The ID of the question.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

WorkloadId (p. 38)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{
```



```

"Answer": {
  "ChoiceAnswers": [
    {
      "ChoiceId": "string",
      "Notes": "string",
      "Reason": "string",
      "Status": "string"
    }
  ],
  "Choices": [
    {
      "ChoiceId": "string",
      "Description": "string",
      "HelpfulResource": {
        "DisplayText": "string",
        "Url": "string"
      },
      "ImprovementPlan": {
        "DisplayText": "string",
        "Url": "string"
      },
      "Title": "string"
    }
  ],
  "HelpfulResourceDisplayText": "string",
  "HelpfulResourceUrl": "string",
  "ImprovementPlanUrl": "string",
  "IsApplicable": boolean,
  "Notes": "string",
  "PillarId": "string",
  "QuestionDescription": "string",
  "QuestionId": "string",
  "QuestionTitle": "string",
  "Reason": "string",
  "Risk": "string",
  "SelectedChoices": [ "string" ]
},
"LensAlias": "string",
"LensArn": "string",
"MilestoneNumber": number,
"WorkloadId": "string"
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Answer (p. 38)

An answer of the question.

Type: [Answer \(p. 125\)](#) object

LensAlias (p. 38)

The alias of the lens, for example, serverless.

Each lens is identified by its [LensSummary:LensAlias \(p. 147\)](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

LensArn (p. 38)

The ARN for the lens.

Type: String

MilestoneNumber (p. 38)

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

WorkloadId (p. 38)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetLens

Get an existing lens.

Request Syntax

```
GET /lenses/LensAlias?LensVersion=LensVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[LensAlias \(p. 42\)](#)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

[LensVersion \(p. 42\)](#)

The lens version to be retrieved.

Length Constraints: Minimum length of 1. Maximum length of 32.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Lens": {
    "Description": "string",
    "LensArn": "string",
    "LensVersion": "string",
    "Name": "string",
    "Owner": "string",
    "ShareInvitationId": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[Lens \(p. 42\)](#)

A lens return object.

Type: [Lens \(p. 139\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetLensReview

Get lens review.

Request Syntax

```
GET /workloads/WorkloadId/lensReviews/LensAlias?MilestoneNumber=MilestoneNumber HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[LensAlias \(p. 44\)](#)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

[MilestoneNumber \(p. 44\)](#)

The milestone number.

A workload can have a maximum of 100 milestones.

Valid Range: Minimum value of 1. Maximum value of 100.

[WorkloadId \(p. 44\)](#)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LensReview": {
    "LensAlias": "string",
    "LensArn": "string",
    "LensName": "string",
    "LensStatus": "string",
    "LensVersion": "string",
    "NextToken": "string",
    "Notes": "string",
```

```
    "PillarReviewSummaries": [
      {
        "Notes": "string",
        "PillarId": "string",
        "PillarName": "string",
        "RiskCounts": {
          "string" : number
        }
      }
    ],
    "RiskCounts": {
      "string" : number
    },
    "UpdatedAt": number
  },
  "MilestoneNumber": number,
  "WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LensReview (p. 44)

A lens review of a question.

Type: [LensReview \(p. 141\)](#) object

MilestoneNumber (p. 44)

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

WorkloadId (p. 44)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetLensReviewReport

Get lens review report.

Request Syntax

```
GET /workloads/WorkloadId/lensReviews/LensAlias/report?MilestoneNumber=MilestoneNumber
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

LensAlias (p. 47)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias](#) (p. 147).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

MilestoneNumber (p. 47)

The milestone number.

A workload can have a maximum of 100 milestones.

Valid Range: Minimum value of 1. Maximum value of 100.

WorkloadId (p. 47)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LensReviewReport": {
    "Base64String": "string",
    "LensAlias": "string",
    "LensArn": "string"
  },
  "MilestoneNumber": number,
  "WorkloadId": "string"
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LensReviewReport (p. 47)

A report of a lens review.

Type: [LensReviewReport \(p. 143\)](#) object

MilestoneNumber (p. 47)

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

WorkloadId (p. 47)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetLensVersionDifference

Get lens version differences.

Request Syntax

```
GET /lenses/LensAlias/versionDifference?
BaseLensVersion=BaseLensVersion&TargetLensVersion=TargetLensVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

BaseLensVersion (p. 50)

The base version of the lens.

Length Constraints: Minimum length of 1. Maximum length of 32.

LensAlias (p. 50)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias \(p. 147\)](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

TargetLensVersion (p. 50)

The lens version to target a difference for.

Length Constraints: Minimum length of 1. Maximum length of 32.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "BaseLensVersion": "string",
  "LatestLensVersion": "string",
  "LensAlias": "string",
  "LensArn": "string",
  "TargetLensVersion": "string",
  "VersionDifferences": {
    "PillarDifferences": [
      {
        "DifferenceStatus": "string",
        "PillarId": "string",
        "PillarName": "string",
```

```
    "QuestionDifferences": [  
      {  
        "DifferenceStatus": "string",  
        "QuestionId": "string",  
        "QuestionTitle": "string"  
      }  
    ]  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

BaseLensVersion (p. 50)

The base version of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

LatestLensVersion (p. 50)

The latest version of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

LensAlias (p. 50)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias \(p. 147\)](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

LensArn (p. 50)

The ARN for the lens.

Type: String

TargetLensVersion (p. 50)

The target lens version for the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

VersionDifferences (p. 50)

The differences between the base and latest versions of the lens.

Type: [VersionDifferences \(p. 163\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetMilestone

Get a milestone for an existing workload.

Request Syntax

```
GET /workloads/WorkloadId/milestones/MilestoneNumber HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MilestoneNumber (p. 53)

The milestone number.

A workload can have a maximum of 100 milestones.

Valid Range: Minimum value of 1. Maximum value of 100.

Required: Yes

WorkloadId (p. 53)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Milestone": {
    "MilestoneName": "string",
    "MilestoneNumber": number,
    "RecordedAt": number,
    "Workload": {
      "AccountIds": [ "string" ],
      "ArchitecturalDesign": "string",
      "AwsRegions": [ "string" ],
      "Description": "string",
      "Environment": "string",
      "ImprovementStatus": "string",
      "Industry": "string",
      "IndustryType": "string",
      "IsReviewOwnerUpdateAcknowledged": boolean,
      "Lenses": [ "string" ],
      "NonAwsRegions": [ "string" ],
```

```
    "Notes": "string",
    "Owner": "string",
    "PillarPriorities": [ "string" ],
    "ReviewOwner": "string",
    "ReviewRestrictionDate": number,
    "RiskCounts": {
        "string" : number
    },
    "ShareInvitationId": "string",
    "Tags": {
        "string" : "string"
    },
    "UpdatedAt": number,
    "WorkloadArn": "string",
    "WorkloadId": "string",
    "WorkloadName": "string"
  }
},
"WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Milestone (p. 53)

A milestone return object.

Type: [Milestone \(p. 151\)](#) object

WorkloadId (p. 53)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: [0-9a-f]{32}

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWorkload

Get an existing workload.

Request Syntax

```
GET /workloads/WorkloadId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[WorkloadId \(p. 56\)](#)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: [0-9a-f]{32}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Workload": {
    "AccountIds": [ "string" ],
    "ArchitecturalDesign": "string",
    "AwsRegions": [ "string" ],
    "Description": "string",
    "Environment": "string",
    "ImprovementStatus": "string",
    "Industry": "string",
    "IndustryType": "string",
    "IsReviewOwnerUpdateAcknowledged": boolean,
    "Lenses": [ "string" ],
    "NonAwsRegions": [ "string" ],
    "Notes": "string",
    "Owner": "string",
    "PillarPriorities": [ "string" ],
    "ReviewOwner": "string",
    "ReviewRestrictionDate": number,
    "RiskCounts": {
      "string" : number
    },
    "ShareInvitationId": "string",
    "Tags": {
      "string" : "string"
    },
    "UpdatedAt": number,
    "WorkloadArn": "string",
```

```
    "WorkloadId": "string",  
    "WorkloadName": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Workload (p. 56)

A workload return object.

Type: [Workload \(p. 164\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ImportLens

Import a new lens.

The lens cannot be applied to workloads or shared with other AWS accounts until it's published with [CreateLensVersion](#) (p. 9)

Lenses are defined in JSON. For more information, see [JSON format specification](#) in the *AWS Well-Architected Tool User Guide*.

A custom lens cannot exceed 500 KB in size.

Note

Disclaimer

Do not include or gather personal identifiable information (PII) of end users or other identifiable individuals in or via your custom lenses. If your custom lens or those shared with you and used in your account do include or collect PII you are responsible for: ensuring that the included PII is processed in accordance with applicable law, providing adequate privacy notices, and obtaining necessary consents for processing such data.

Request Syntax

```
PUT /importLens HTTP/1.1
Content-type: application/json
```

```
{
  "ClientRequestToken": "string",
  "JSONString": "string",
  "LensAlias": "string",
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken](#) (p. 59)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Type: String

Required: Yes

[JSONString \(p. 59\)](#)

The JSON representation of a lens.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 500000.

Required: Yes

[LensAlias \(p. 59\)](#)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias \(p. 147\)](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

[Tags \(p. 59\)](#)

Tags to associate to a lens.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LensArn": "string",
  "Status": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[LensArn \(p. 60\)](#)

The ARN for the lens.

Type: String

[Status \(p. 60\)](#)

The status of the imported lens.

Type: String

Valid Values: `IN_PROGRESS` | `COMPLETE` | `ERROR`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The user has reached their resource quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListAnswers

List of answers.

Request Syntax

```
GET /workloads/WorkloadId/lensReviews/LensAlias/answers?  
MaxResults=MaxResults&MilestoneNumber=MilestoneNumber&NextToken=NextToken&PillarId=PillarId  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

LensAlias (p. 63)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

MaxResults (p. 63)

The maximum number of results to return for this request.

Valid Range: Minimum value of 1. Maximum value of 50.

MilestoneNumber (p. 63)

The milestone number.

A workload can have a maximum of 100 milestones.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 63)

The token to use to retrieve the next set of results.

PillarId (p. 63)

The ID used to identify a pillar, for example, `security`.

A pillar is identified by its [PillarReviewSummary:PillarId](#) (p. 155).

Length Constraints: Minimum length of 1. Maximum length of 64.

WorkloadId (p. 63)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "AnswerSummaries": [
    {
      "ChoiceAnswerSummaries": [
        {
          "ChoiceId": "string",
          "Reason": "string",
          "Status": "string"
        }
      ],
      "Choices": [
        {
          "ChoiceId": "string",
          "Description": "string",
          "HelpfulResource": {
            "DisplayText": "string",
            "Url": "string"
          },
          "ImprovementPlan": {
            "DisplayText": "string",
            "Url": "string"
          },
          "Title": "string"
        }
      ],
      "IsApplicable": boolean,
      "PillarId": "string",
      "QuestionId": "string",
      "QuestionTitle": "string",
      "Reason": "string",
      "Risk": "string",
      "SelectedChoices": [ "string" ]
    }
  ],
  "LensAlias": "string",
  "LensArn": "string",
  "MilestoneNumber": number,
  "NextToken": "string",
  "WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AnswerSummaries (p. 64)

List of answer summaries of lens review in a workload.

Type: Array of [AnswerSummary \(p. 128\)](#) objects

LensAlias (p. 64)

The alias of the lens, for example, serverless.

Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

LensArn (p. 64)

The ARN for the lens.

Type: String

MilestoneNumber (p. 64)

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 64)

The token to use to retrieve the next set of results.

Type: String

WorkloadId (p. 64)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListLenses

List the available lenses.

Request Syntax

```
GET /lenses?
LensName=LensName&LensStatus=LensStatus&LensType=LensType&MaxResults=MaxResults&NextToken=NextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

LensName (p. 67)

The full name of the lens.

Length Constraints: Minimum length of 1. Maximum length of 128.

LensStatus (p. 67)

The status of lenses to be returned.

Valid Values: ALL | DRAFT | PUBLISHED

LensType (p. 67)

The type of lenses to be returned.

Valid Values: AWS_OFFICIAL | CUSTOM_SHARED | CUSTOM_SELF

MaxResults (p. 67)

The maximum number of results to return for this request.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 67)

The token to use to retrieve the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LensSummaries": [
    {
      "CreatedAt": number,
      "Description": "string",
      "LensAlias": "string",
      "LensArn": "string",
```

```
        "LensName": "string",  
        "LensStatus": "string",  
        "LensType": "string",  
        "LensVersion": "string",  
        "Owner": "string",  
        "UpdatedAt": number  
    },  
    ],  
    "NextToken": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[LensSummaries \(p. 67\)](#)

List of lens summaries of available lenses.

Type: Array of [LensSummary \(p. 147\)](#) objects

[NextToken \(p. 67\)](#)

The token to use to retrieve the next set of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListLensReviewImprovements

List lens review improvements.

Request Syntax

```
GET /workloads/WorkloadId/lensReviews/LensAlias/improvements?
MaxResults=MaxResults&MilestoneNumber=MilestoneNumber&NextToken=NextToken&PillarId=PillarId
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

LensAlias (p. 70)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

MaxResults (p. 70)

The maximum number of results to return for this request.

Valid Range: Minimum value of 1. Maximum value of 100.

MilestoneNumber (p. 70)

The milestone number.

A workload can have a maximum of 100 milestones.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 70)

The token to use to retrieve the next set of results.

PillarId (p. 70)

The ID used to identify a pillar, for example, `security`.

A pillar is identified by its [PillarReviewSummary:PillarId](#) (p. 155).

Length Constraints: Minimum length of 1. Maximum length of 64.

WorkloadId (p. 70)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "ImprovementSummaries": [
    {
      "ImprovementPlans": [
        {
          "ChoiceId": "string",
          "DisplayText": "string",
          "ImprovementPlanUrl": "string"
        }
      ],
      "ImprovementPlanUrl": "string",
      "PillarId": "string",
      "QuestionId": "string",
      "QuestionTitle": "string",
      "Risk": "string"
    }
  ],
  "LensAlias": "string",
  "LensArn": "string",
  "MilestoneNumber": number,
  "NextToken": "string",
  "WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ImprovementSummaries (p. 71)

List of improvement summaries of lens review in a workload.

Type: Array of [ImprovementSummary](#) (p. 137) objects

LensAlias (p. 71)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias](#) (p. 147).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

LensArn (p. 71)

The ARN for the lens.

Type: String

MilestoneNumber (p. 71)

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 71)

The token to use to retrieve the next set of results.

Type: String

WorkloadId (p. 71)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListLensReviews

List lens reviews.

Request Syntax

```
GET /workloads/WorkloadId/lensReviews?
MaxResults=MaxResults&MilestoneNumber=MilestoneNumber&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 74)

The maximum number of results to return for this request.

Valid Range: Minimum value of 1. Maximum value of 50.

MilestoneNumber (p. 74)

The milestone number.

A workload can have a maximum of 100 milestones.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 74)

The token to use to retrieve the next set of results.

WorkloadId (p. 74)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: [0-9a-f]{32}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LensReviewSummaries": [
    {
      "LensAlias": "string",
      "LensArn": "string",
      "LensName": "string",
      "LensStatus": "string",
      "LensVersion": "string",
      "RiskCounts": {
```

```
        "string" : number
      },
      "UpdatedAt": number
    }
  ],
  "MilestoneNumber": number,
  "NextToken": "string",
  "WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LensReviewSummaries (p. 74)

List of lens summaries of lens reviews of a workload.

Type: Array of [LensReviewSummary \(p. 144\)](#) objects

MilestoneNumber (p. 74)

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 74)

The token to use to retrieve the next set of results.

Type: String

WorkloadId (p. 74)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListLensShares

List the lens shares associated with the lens.

Request Syntax

```
GET /lenses/LensAlias/shares?  
MaxResults=MaxResults&NextToken=NextToken&SharedWithPrefix=SharedWithPrefix HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

LensAlias (p. 77)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias](#) (p. 147).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

MaxResults (p. 77)

The maximum number of results to return for this request.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 77)

The token to use to retrieve the next set of results.

SharedWithPrefix (p. 77)

The AWS account ID or IAM role with which the lens is shared.

Length Constraints: Maximum length of 100.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "LensShareSummaries": [  
    {  
      "SharedWith": "string",  
      "ShareId": "string",  
      "Status": "string"  
    }  
  ],  
  "NextToken": "string"  
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LensShareSummaries (p. 77)

A list of lens share summaries.

Type: Array of [LensShareSummary \(p. 146\)](#) objects

NextToken (p. 77)

The token to use to retrieve the next set of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListMilestones

List all milestones for an existing workload.

Request Syntax

```
POST /workloads/WorkloadId/milestonesSummaries HTTP/1.1
Content-type: application/json

{
  "MaxResults": number,
  "NextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

WorkloadId (p. 80)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

MaxResults (p. 80)

The maximum number of results to return for this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken (p. 80)

The token to use to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"MilestoneSummaries": [
  {
    "MilestoneName": "string",
    "MilestoneNumber": number,
    "RecordedAt": number,
    "WorkloadSummary": {
      "ImprovementStatus": "string",
      "Lenses": [ "string" ],
      "Owner": "string",
      "RiskCounts": {
        "string" : number
      },
      "UpdatedAt": number,
      "WorkloadArn": "string",
      "WorkloadId": "string",
      "WorkloadName": "string"
    }
  }
],
"NextToken": "string",
"WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MilestoneSummaries (p. 80)

A list of milestone summaries.

Type: Array of [MilestoneSummary \(p. 152\)](#) objects

NextToken (p. 80)

The token to use to retrieve the next set of results.

Type: String

WorkloadId (p. 80)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListNotifications

List lens notifications.

Request Syntax

```
POST /notifications HTTP/1.1
Content-type: application/json

{
  "MaxResults": number,
  "NextToken": "string",
  "WorkloadId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

MaxResults (p. 83)

The maximum number of results to return for this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken (p. 83)

The token to use to retrieve the next set of results.

Type: String

Required: No

WorkloadId (p. 83)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: [0-9a-f]{32}

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "NextToken": "string",
  "NotificationSummaries": [
    {
      "LensUpgradeSummary": {
        "CurrentLensVersion": "string",
        "LatestLensVersion": "string",
        "LensAlias": "string",
        "LensArn": "string",
        "WorkloadId": "string",
        "WorkloadName": "string"
      },
      "Type": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken (p. 83)

The token to use to retrieve the next set of results.

Type: String

NotificationSummaries (p. 83)

List of lens notification summaries in a workload.

Type: Array of [NotificationSummary](#) (p. 153) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 176).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListShareInvitations

List the workload invitations.

Request Syntax

```
GET /shareInvitations?
LensNamePrefix=LensNamePrefix&MaxResults=MaxResults&NextToken=NextToken&ShareResourceType=ShareResourceType
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

LensNamePrefix (p. 86)

An optional string added to the beginning of each lens name returned in the results.

Length Constraints: Maximum length of 100.

MaxResults (p. 86)

The maximum number of results to return for this request.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 86)

The token to use to retrieve the next set of results.

ShareResourceType (p. 86)

The type of share invitations to be returned.

Valid Values: WORKLOAD | LENS

WorkloadNamePrefix (p. 86)

An optional string added to the beginning of each workload name returned in the results.

Length Constraints: Maximum length of 100.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "NextToken": string,
  "ShareInvitationSummaries": [
    {
      "LensArn": string,
      "LensName": string,
```



```
    "PermissionType": "string",
    "SharedBy": "string",
    "SharedWith": "string",
    "ShareInvitationId": "string",
    "ShareResourceType": "string",
    "WorkloadId": "string",
    "WorkloadName": "string"
  }
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken (p. 86)

The token to use to retrieve the next set of results.

Type: String

ShareInvitationSummaries (p. 86)

List of share invitation summaries in a workload.

Type: Array of [ShareInvitationSummary](#) (p. 160) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 176).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

List the tags for a resource.

Request Syntax

```
GET /tags/WorkloadArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[WorkloadArn \(p. 89\)](#)

The ARN for the workload.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Tags": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[Tags \(p. 89\)](#)

The tags for the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListWorkloads

List workloads. Paginated.

Request Syntax

```
POST /workloadsSummaries HTTP/1.1
Content-type: application/json

{
  "MaxResults": number,
  "NextToken": "string",
  "WorkloadNamePrefix": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

MaxResults (p. 91)

The maximum number of results to return for this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken (p. 91)

The token to use to retrieve the next set of results.

Type: String

Required: No

WorkloadNamePrefix (p. 91)

An optional string added to the beginning of each workload name returned in the results.

Type: String

Length Constraints: Maximum length of 100.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"NextToken": "string",
"WorkloadSummaries": [
  {
    "ImprovementStatus": "string",
    "Lenses": [ "string" ],
    "Owner": "string",
    "RiskCounts": {
      "string" : number
    },
    "UpdatedAt": number,
    "WorkloadArn": "string",
    "WorkloadId": "string",
    "WorkloadName": "string"
  }
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken (p. 91)

The token to use to retrieve the next set of results.

Type: String

WorkloadSummaries (p. 91)

A list of workload summaries.

Type: Array of [WorkloadSummary](#) (p. 172) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 176).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListWorkloadShares

List the workload shares associated with the workload.

Request Syntax

```
GET /workloads/WorkloadId/shares?  
MaxResults=MaxResults&NextToken=NextToken&SharedWithPrefix=SharedWithPrefix HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 94)

The maximum number of results to return for this request.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 94)

The token to use to retrieve the next set of results.

SharedWithPrefix (p. 94)

The AWS account ID or IAM role with which the workload is shared.

Length Constraints: Maximum length of 100.

WorkloadId (p. 94)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "NextToken": "string",  
  "WorkloadId": "string",  
  "WorkloadShareSummaries": [  
    {  
      "PermissionType": "string",  
      "SharedWith": "string",  
      "ShareId": "string",  
      "Status": "string"  
    }  
  ]  
}
```



```
} ]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken (p. 94)

The token to use to retrieve the next set of results.

Type: String

WorkloadId (p. 94)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

WorkloadShareSummaries (p. 94)

A list of workload share summaries.

Type: Array of [WorkloadShareSummary](#) (p. 171) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 176).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds one or more tags to the specified resource.

Request Syntax

```
POST /tags/WorkloadArn HTTP/1.1
Content-type: application/json

{
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[WorkloadArn \(p. 97\)](#)

The ARN for the workload.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[Tags \(p. 97\)](#)

The tags for the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Deletes specified tags from a resource.

To specify multiple tags, use separate **tagKeys** parameters, for example:

```
DELETE /tags/WorkloadArn?tagKeys=key1&tagKeys=key2
```

Request Syntax

```
DELETE /tags/WorkloadArn?tagKeys=TagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

TagKeys (p. 99)

A list of tag keys. Existing tags of the resource whose keys are members of this list are removed from the resource.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

WorkloadArn (p. 99)

The ARN for the workload.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateAnswer

Update the answer to a specific question in a workload review.

Request Syntax

```
PATCH /workloads/WorkloadId/lensReviews/LensAlias/answers/QuestionId HTTP/1.1  
Content-type: application/json
```

```
{  
  "ChoiceUpdates": {  
    "string" : {  
      "Notes": "string",  
      "Reason": "string",  
      "Status": "string"  
    }  
  },  
  "IsApplicable": boolean,  
  "Notes": "string",  
  "Reason": "string",  
  "SelectedChoices": [ "string" ]  
}
```

URI Request Parameters

The request uses the following URI parameters.

LensAlias (p. 101)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

QuestionId (p. 101)

The ID of the question.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

WorkloadId (p. 101)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

ChoiceUpdates (p. 101)

A list of choices to update on a question in your workload. The String key corresponds to the choice ID to be updated.

Type: String to [ChoiceUpdate \(p. 136\)](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

IsApplicable (p. 101)

Defines whether this question is applicable to a lens review.

Type: Boolean

Required: No

Notes (p. 101)

The notes associated with the workload.

Type: String

Length Constraints: Maximum length of 2084.

Required: No

Reason (p. 101)

The reason why a question is not applicable to your workload.

Type: String

Valid Values: OUT_OF_SCOPE | BUSINESS_PRIORITIES | ARCHITECTURE_CONSTRAINTS | OTHER | NONE

Required: No

SelectedChoices (p. 101)

List of selected choice IDs in a question answer.

The values entered replace the previously selected choices.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Answer": {
    "ChoiceAnswers": [
      {
        "ChoiceId": "string",
        "Notes": "string",
```



```

        "Reason": "string",
        "Status": "string"
    }
],
"Choices": [
    {
        "ChoiceId": "string",
        "Description": "string",
        "HelpfulResource": {
            "DisplayText": "string",
            "Url": "string"
        },
        "ImprovementPlan": {
            "DisplayText": "string",
            "Url": "string"
        },
        "Title": "string"
    }
],
"HelpfulResourceDisplayText": "string",
"HelpfulResourceUrl": "string",
"ImprovementPlanUrl": "string",
"IsApplicable": boolean,
"Notes": "string",
"PillarId": "string",
"QuestionDescription": "string",
"QuestionId": "string",
"QuestionTitle": "string",
"Reason": "string",
"Risk": "string",
"SelectedChoices": [ "string" ]
},
"LensAlias": "string",
"LensArn": "string",
"WorkloadId": "string"
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Answer (p. 102)

An answer of the question.

Type: [Answer \(p. 125\)](#) object

LensAlias (p. 102)

The alias of the lens, for example, serverless.

Each lens is identified by its [LensSummary:LensAlias \(p. 147\)](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

LensArn (p. 102)

The ARN for the lens.

Type: String

WorkloadId (p. 102)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateLensReview

Update lens review.

Request Syntax

```
PATCH /workloads/WorkloadId/lensReviews/LensAlias HTTP/1.1
Content-type: application/json

{
  "LensNotes": "string",
  "PillarNotes": {
    "string": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

LensAlias (p. 106)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

WorkloadId (p. 106)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

LensNotes (p. 106)

The notes associated with the workload.

Type: String

Length Constraints: Maximum length of 2084.

Required: No

PillarNotes (p. 106)

List of pillar notes of a lens review in a workload.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 64.

Value Length Constraints: Maximum length of 2084.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LensReview": {
    "LensAlias": "string",
    "LensArn": "string",
    "LensName": "string",
    "LensStatus": "string",
    "LensVersion": "string",
    "NextToken": "string",
    "Notes": "string",
    "PillarReviewSummaries": [
      {
        "Notes": "string",
        "PillarId": "string",
        "PillarName": "string",
        "RiskCounts": {
          "string" : number
        }
      }
    ],
    "RiskCounts": {
      "string" : number
    },
    "UpdatedAt": number
  },
  "WorkloadId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

LensReview (p. 107)

A lens review of a question.

Type: [LensReview](#) (p. 141) object

WorkloadId (p. 107)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: [0-9a-f]{32}

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 176).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateShareInvitation

Update a workload invitation.

Request Syntax

```
PATCH /shareInvitations/ShareInvitationId HTTP/1.1
Content-type: application/json

{
  "ShareInvitationAction": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ShareInvitationId (p. 109)

The ID assigned to the share invitation.

Pattern: [0-9a-f]{32}

Required: Yes

Request Body

The request accepts the following data in JSON format.

ShareInvitationAction (p. 109)

Share invitation action taken by contributor.

Type: String

Valid Values: ACCEPT | REJECT

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "ShareInvitation": {
    "LensAlias": "string",
    "LensArn": "string",
    "ShareInvitationId": "string",
    "ShareResourceType": "string",
    "WorkloadId": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[ShareInvitation \(p. 109\)](#)

The updated workload share invitation.

Type: [ShareInvitation \(p. 158\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateWorkload

Update an existing workload.

Request Syntax

```
PATCH /workloads/WorkloadId HTTP/1.1
Content-type: application/json

{
  "AccountIds": [ "string" ],
  "ArchitecturalDesign": "string",
  "AwsRegions": [ "string" ],
  "Description": "string",
  "Environment": "string",
  "ImprovementStatus": "string",
  "Industry": "string",
  "IndustryType": "string",
  "IsReviewOwnerUpdateAcknowledged": boolean,
  "NonAwsRegions": [ "string" ],
  "Notes": "string",
  "PillarPriorities": [ "string" ],
  "ReviewOwner": "string",
  "WorkloadName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

WorkloadId (p. 112)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

AccountIds (p. 112)

The list of AWS account IDs associated with the workload.

Type: Array of strings

Array Members: Maximum number of 100 items.

Pattern: `[0-9]{12}`

Required: No

ArchitecturalDesign (p. 112)

The URL of the architectural design for the workload.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

AwsRegions (p. 112)

The list of AWS Regions associated with the workload, for example, `us-east-2`, or `ca-central-1`.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Maximum length of 100.

Required: No

Description (p. 112)

The description for the workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 250.

Required: No

Environment (p. 112)

The environment for the workload.

Type: String

Valid Values: `PRODUCTION` | `PREPRODUCTION`

Required: No

ImprovementStatus (p. 112)

The improvement status for a workload.

Type: String

Valid Values: `NOT_APPLICABLE` | `NOT_STARTED` | `IN_PROGRESS` | `COMPLETE` | `RISK_ACKNOWLEDGED`

Required: No

Industry (p. 112)

The industry for the workload.

Type: String

Length Constraints: Maximum length of 100.

Required: No

IndustryType (p. 112)

The industry type for the workload.

If specified, must be one of the following:

- `Agriculture`
- `Automobile`

- Defense
- Design and Engineering
- Digital Advertising
- Education
- Environmental Protection
- Financial Services
- Gaming
- General Public Services
- Healthcare
- Hospitality
- InfoTech
- Justice and Public Safety
- Life Sciences
- Manufacturing
- Media & Entertainment
- Mining & Resources
- Oil & Gas
- Power & Utilities
- Professional Services
- Real Estate & Construction
- Retail & Wholesale
- Social Protection
- Telecommunications
- Travel, Transportation & Logistics
- Other

Type: String

Length Constraints: Maximum length of 100.

Required: No

IsReviewOwnerUpdateAcknowledged (p. 112)

Flag indicating whether the workload owner has acknowledged that the *Review owner* field is required.

If a **Review owner** is not added to the workload within 60 days of acknowledgement, access to the workload is restricted until an owner is added.

Type: Boolean

Required: No

NonAwsRegions (p. 112)

The list of non-AWS Regions associated with the workload.

Type: Array of strings

Array Members: Maximum number of 5 items.

Length Constraints: Minimum length of 3. Maximum length of 25.

Required: No

Notes (p. 112)

The notes associated with the workload.

Type: String

Length Constraints: Maximum length of 2084.

Required: No

PillarPriorities (p. 112)

The priorities of the pillars, which are used to order items in the improvement plan. Each pillar is represented by its [PillarReviewSummary:PillarId](#) (p. 155).

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

ReviewOwner (p. 112)

The review owner of the workload. The name, email address, or identifier for the primary group or individual that owns the workload review process.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

WorkloadName (p. 112)

The name of the workload.

The name must be unique within an account within an AWS Region. Spaces and capitalization are ignored when checking for uniqueness.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Workload": {
    "AccountIds": [ "string" ],
    "ArchitecturalDesign": "string",
    "AwsRegions": [ "string" ],
    "Description": "string",
    "Environment": "string",
    "ImprovementStatus": "string",
    "Industry": "string",
    "IndustryType": "string",
    "IsReviewOwnerUpdateAcknowledged": boolean,
    "Lenses": [ "string" ],
    "NonAwsRegions": [ "string" ],
```

```
    "Notes": "string",
    "Owner": "string",
    "PillarPriorities": [ "string" ],
    "ReviewOwner": "string",
    "ReviewRestrictionDate": number,
    "RiskCounts": {
        "string" : number
    },
    "ShareInvitationId": "string",
    "Tags": {
        "string" : "string"
    },
    "UpdatedAt": number,
    "WorkloadArn": "string",
    "WorkloadId": "string",
    "WorkloadName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Workload (p. 115)

A workload return object.

Type: [Workload \(p. 164\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateWorkloadShare

Update a workload share.

Request Syntax

```
PATCH /workloads/WorkloadId/shares/ShareId HTTP/1.1
Content-type: application/json

{
  "PermissionType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ShareId (p. 118)

The ID associated with the workload share.

Pattern: `[0-9a-f]{32}`

Required: Yes

WorkloadId (p. 118)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

PermissionType (p. 118)

Permission granted on a workload share.

Type: String

Valid Values: `READONLY` | `CONTRIBUTOR`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "WorkloadId": "string",
  "WorkloadShare": {
```



```
    "PermissionType": "string",  
    "SharedBy": "string",  
    "SharedWith": "string",  
    "ShareId": "string",  
    "Status": "string",  
    "WorkloadId": "string",  
    "WorkloadName": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

WorkloadId (p. 118)

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

WorkloadShare (p. 118)

A workload share return object.

Type: [WorkloadShare \(p. 169\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpgradeLensReview

Upgrade lens review.

Request Syntax

```
PUT /workloads/WorkloadId/lensReviews/LensAlias/upgrade HTTP/1.1
Content-type: application/json

{
  "ClientRequestToken": "string",
  "MilestoneName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[LensAlias \(p. 121\)](#)

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary: LensAlias \(p. 147\)](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

[WorkloadId \(p. 121\)](#)

The ID assigned to the workload. This ID is unique within an AWS Region.

Pattern: `[0-9a-f]{32}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 121\)](#)

A unique case-sensitive string used to ensure that this request is idempotent (executes only once).

You should not reuse the same token for other requests. If you retry a request with the same client request token and the same parameters after it has completed successfully, the result of the original request is returned.

Important

This token is listed as required, however, if you do not specify it, the AWS SDKs automatically generate one for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the request will fail.

Type: String

Required: No

MilestoneName (p. 121)

The name of the milestone in a workload.

Milestone names must be unique within a workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: Yes

Response Syntax

`HTTP/1.1 200`

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 176\)](#).

AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The resource already exists.

HTTP Status Code: 409

InternalServerErrorException

There is a problem with the AWS Well-Architected Tool API service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The user input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The AWS Well-Architected Tool API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [Answer](#) (p. 125)
- [AnswerSummary](#) (p. 128)
- [Choice](#) (p. 130)
- [ChoiceAnswer](#) (p. 132)
- [ChoiceAnswerSummary](#) (p. 133)
- [ChoiceContent](#) (p. 134)
- [ChoiceImprovementPlan](#) (p. 135)
- [ChoiceUpdate](#) (p. 136)
- [ImprovementSummary](#) (p. 137)
- [Lens](#) (p. 139)
- [LensReview](#) (p. 141)
- [LensReviewReport](#) (p. 143)
- [LensReviewSummary](#) (p. 144)
- [LensShareSummary](#) (p. 146)
- [LensSummary](#) (p. 147)
- [LensUpgradeSummary](#) (p. 149)
- [Milestone](#) (p. 151)
- [MilestoneSummary](#) (p. 152)
- [NotificationSummary](#) (p. 153)
- [PillarDifference](#) (p. 154)
- [PillarReviewSummary](#) (p. 155)
- [QuestionDifference](#) (p. 157)
- [ShareInvitation](#) (p. 158)
- [ShareInvitationSummary](#) (p. 160)
- [ValidationExceptionField](#) (p. 162)
- [VersionDifferences](#) (p. 163)
- [Workload](#) (p. 164)
- [WorkloadShare](#) (p. 169)
- [WorkloadShareSummary](#) (p. 171)
- [WorkloadSummary](#) (p. 172)

Answer

An answer of the question.

Contents

ChoiceAnswers

A list of selected choices to a question in your workload.

Type: Array of [ChoiceAnswer \(p. 132\)](#) objects

Required: No

Choices

List of choices available for a question.

Type: Array of [Choice \(p. 130\)](#) objects

Required: No

HelpfulResourceDisplayText

The helpful resource text to be displayed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

HelpfulResourceUrl

The helpful resource URL for a question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

ImprovementPlanUrl

The improvement plan URL for a question.

This value is only available if the question has been answered.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

IsApplicable

Defines whether this question is applicable to a lens review.

Type: Boolean

Required: No

Notes

The notes associated with the workload.

Type: String

Length Constraints: Maximum length of 2084.

Required: No

PillarId

The ID used to identify a pillar, for example, `security`.

A pillar is identified by its [PillarReviewSummary:PillarId](#) (p. 155).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

QuestionDescription

The description of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

QuestionId

The ID of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

QuestionTitle

The title of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Reason

The reason why the question is not applicable to your workload.

Type: String

Valid Values: `OUT_OF_SCOPE` | `BUSINESS_PRIORITIES` | `ARCHITECTURE_CONSTRAINTS` | `OTHER` | `NONE`

Required: No

Risk

The risk for a given workload, lens review, pillar, or question.

Type: String

Valid Values: `UNANSWERED` | `HIGH` | `MEDIUM` | `NONE` | `NOT_APPLICABLE`

Required: No

SelectedChoices

List of selected choice IDs in a question answer.

The values entered replace the previously selected choices.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AnswerSummary

An answer summary of a lens review in a workload.

Contents

ChoiceAnswerSummaries

A list of selected choices to a question in your workload.

Type: Array of [ChoiceAnswerSummary \(p. 133\)](#) objects

Required: No

Choices

List of choices available for a question.

Type: Array of [Choice \(p. 130\)](#) objects

Required: No

IsApplicable

Defines whether this question is applicable to a lens review.

Type: Boolean

Required: No

PillarId

The ID used to identify a pillar, for example, `security`.

A pillar is identified by its [PillarReviewSummary:PillarId \(p. 155\)](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

QuestionId

The ID of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

QuestionTitle

The title of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Reason

The reason why a choice is non-applicable to a question in your workload.

Type: String

Valid Values: OUT_OF_SCOPE | BUSINESS_PRIORITIES | ARCHITECTURE_CONSTRAINTS | OTHER | NONE

Required: No

Risk

The risk for a given workload, lens review, pillar, or question.

Type: String

Valid Values: UNANSWERED | HIGH | MEDIUM | NONE | NOT_APPLICABLE

Required: No

SelectedChoices

List of selected choice IDs in a question answer.

The values entered replace the previously selected choices.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Choice

A choice available to answer question.

Contents

ChoiceId

The ID of a choice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

Description

The description of a choice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

HelpfulResource

The choice level helpful resource.

Type: [ChoiceContent \(p. 134\)](#) object

Required: No

ImprovementPlan

The choice level improvement plan.

Type: [ChoiceContent \(p. 134\)](#) object

Required: No

Title

The title of a choice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ChoiceAnswer

A choice that has been answered on a question in your workload.

Contents

ChoiceId

The ID of a choice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

Notes

The notes associated with a choice.

Type: String

Length Constraints: Maximum length of 250.

Required: No

Reason

The reason why a choice is non-applicable to a question in your workload.

Type: String

Valid Values: OUT_OF_SCOPE | BUSINESS_PRIORITIES | ARCHITECTURE_CONSTRAINTS | OTHER | NONE

Required: No

Status

The status of a choice.

Type: String

Valid Values: SELECTED | NOT_APPLICABLE | UNSELECTED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ChoiceAnswerSummary

A choice summary that has been answered on a question in your workload.

Contents

ChoiceId

The ID of a choice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

Reason

The reason why a choice is non-applicable to a question in your workload.

Type: String

Valid Values: OUT_OF_SCOPE | BUSINESS_PRIORITIES | ARCHITECTURE_CONSTRAINTS | OTHER | NONE

Required: No

Status

The status of a choice.

Type: String

Valid Values: SELECTED | NOT_APPLICABLE | UNSELECTED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ChoiceContent

The choice content.

Contents

DisplayText

The display text for the choice content.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

Url

The URL for the choice content.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ChoiceImprovementPlan

The choice level improvement plan.

Contents

ChoiceId

The ID of a choice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

DisplayText

The display text for the improvement plan.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

ImprovementPlanUrl

The improvement plan URL for a question.

This value is only available if the question has been answered.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ChoiceUpdate

A list of choices to be updated.

Contents

Notes

The notes associated with a choice.

Type: String

Length Constraints: Maximum length of 250.

Required: No

Reason

The reason why a choice is non-applicable to a question in your workload.

Type: String

Valid Values: OUT_OF_SCOPE | BUSINESS_PRIORITIES | ARCHITECTURE_CONSTRAINTS | OTHER | NONE

Required: No

Status

The status of a choice.

Type: String

Valid Values: SELECTED | NOT_APPLICABLE | UNSELECTED

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ImprovementSummary

An improvement summary of a lens review in a workload.

Contents

ImprovementPlans

The improvement plan details.

Type: Array of [ChoiceImprovementPlan](#) (p. 135) objects

Required: No

ImprovementPlanUrl

The improvement plan URL for a question.

This value is only available if the question has been answered.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

PillarId

The ID used to identify a pillar, for example, `security`.

A pillar is identified by its [PillarReviewSummary:PillarId](#) (p. 155).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

QuestionId

The ID of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

QuestionTitle

The title of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Risk

The risk for a given workload, lens review, pillar, or question.

Type: String

Valid Values: `UNANSWERED` | `HIGH` | `MEDIUM` | `NONE` | `NOT_APPLICABLE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Lens

A lens return object.

Contents

Description

The description of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

LensArn

The ARN of a lens.

Type: String

Required: No

LensVersion

The version of a lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

Name

The full name of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Owner

The AWS account ID that owns the lens.

Type: String

Required: No

ShareInvitationId

The ID assigned to the share invitation.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LensReview

A lens review of a question.

Contents

LensAlias

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensArn

The ARN for the lens.

Type: String

Required: No

LensName

The full name of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensStatus

The status of the lens.

Type: String

Valid Values: `CURRENT` | `NOT_CURRENT` | `DEPRECATED` | `DELETED` | `UNSHARED`

Required: No

LensVersion

The version of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

NextToken

The token to use to retrieve the next set of results.

Type: String

Required: No

Notes

The notes associated with the workload.

Type: String

Length Constraints: Maximum length of 2084.

Required: No

PillarReviewSummaries

List of pillar review summaries of lens review in a workload.

Type: Array of [PillarReviewSummary \(p. 155\)](#) objects

Required: No

RiskCounts

A map from risk names to the count of how questions have that rating.

Type: String to integer map

Valid Keys: UNANSWERED | HIGH | MEDIUM | NONE | NOT_APPLICABLE

Valid Range: Minimum value of 0.

Required: No

UpdatedAt

The date and time recorded.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LensReviewReport

A report of a lens review.

Contents

Base64String

The Base64-encoded string representation of a lens review report.

This data can be used to create a PDF file.

Type: String

Required: No

LensAlias

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensArn

The ARN for the lens.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LensReviewSummary

A lens review summary of a workload.

Contents

LensAlias

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensArn

The ARN for the lens.

Type: String

Required: No

LensName

The full name of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensStatus

The status of the lens.

Type: String

Valid Values: `CURRENT` | `NOT_CURRENT` | `DEPRECATED` | `DELETED` | `UNSHARED`

Required: No

LensVersion

The version of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

RiskCounts

A map from risk names to the count of how questions have that rating.

Type: String to integer map

Valid Keys: `UNANSWERED` | `HIGH` | `MEDIUM` | `NONE` | `NOT_APPLICABLE`

Valid Range: Minimum value of 0.

Required: No

UpdatedAt

The date and time recorded.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LensShareSummary

A lens share summary return object.

Contents

SharedWith

The AWS account ID or IAM role with which the workload is shared.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 2048.

Required: No

ShareId

The ID associated with the workload share.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

Status

The status of a workload share.

Type: String

Valid Values: `ACCEPTED` | `REJECTED` | `PENDING` | `REVOKED` | `EXPIRED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LensSummary

A lens summary of a lens.

Contents

CreatedAt

The date and time recorded.

Type: Timestamp

Required: No

Description

The description of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

LensAlias

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias \(p. 147\)](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensArn

The ARN of the lens.

Type: String

Required: No

LensName

The full name of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensStatus

The status of the lens.

Type: String

Valid Values: `CURRENT` | `NOT_CURRENT` | `DEPRECATED` | `DELETED` | `UNSHARED`

Required: No

LensType

The type of the lens.

Type: String

Valid Values: `AWS_OFFICIAL` | `CUSTOM_SHARED` | `CUSTOM_SELF`

Required: No

LensVersion

The version of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

Owner

An AWS account ID.

Type: String

Pattern: `[0-9]{12}`

Required: No

UpdatedAt

The date and time recorded.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LensUpgradeSummary

Lens upgrade summary return object.

Contents

CurrentLensVersion

The current version of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

LatestLensVersion

The latest version of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

LensAlias

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensArn

The ARN for the lens.

Type: String

Required: No

WorkloadId

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

WorkloadName

The name of the workload.

The name must be unique within an account within an AWS Region. Spaces and capitalization are ignored when checking for uniqueness.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Milestone

A milestone return object.

Contents

MilestoneName

The name of the milestone in a workload.

Milestone names must be unique within a workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

MilestoneNumber

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

RecordedAt

The date and time recorded.

Type: Timestamp

Required: No

Workload

A workload return object.

Type: [Workload \(p. 164\)](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MilestoneSummary

A milestone summary return object.

Contents

MilestoneName

The name of the milestone in a workload.

Milestone names must be unique within a workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

MilestoneNumber

The milestone number.

A workload can have a maximum of 100 milestones.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

RecordedAt

The date and time recorded.

Type: Timestamp

Required: No

WorkloadSummary

A workload summary return object.

Type: [WorkloadSummary](#) (p. 172) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

NotificationSummary

A notification summary return object.

Contents

LensUpgradeSummary

Summary of lens upgrade.

Type: [LensUpgradeSummary](#) (p. 149) object

Required: No

Type

The type of notification.

Type: String

Valid Values: `LENS_VERSION_UPGRADED` | `LENS_VERSION_DEPRECATED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PillarDifference

A pillar difference return object.

Contents

DifferenceStatus

Indicates the type of change to the pillar.

Type: String

Valid Values: `UPDATED` | `NEW` | `DELETED`

Required: No

PillarId

The ID used to identify a pillar, for example, `security`.

A pillar is identified by its [PillarReviewSummary:PillarId](#) (p. 155).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

PillarName

The name of the pillar.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

QuestionDifferences

List of question differences.

Type: Array of [QuestionDifference](#) (p. 157) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PillarReviewSummary

A pillar review summary of a lens review.

Contents

Notes

The notes associated with the workload.

Type: String

Length Constraints: Maximum length of 2084.

Required: No

PillarId

The ID used to identify a pillar, for example, `security`.

A pillar is identified by its [PillarReviewSummary:PillarId](#) (p. 155).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

PillarName

The name of the pillar.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

RiskCounts

A map from risk names to the count of how questions have that rating.

Type: String to integer map

Valid Keys: `UNANSWERED` | `HIGH` | `MEDIUM` | `NONE` | `NOT_APPLICABLE`

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

QuestionDifference

A question difference return object.

Contents

DifferenceStatus

Indicates the type of change to the question.

Type: String

Valid Values: `UPDATED` | `NEW` | `DELETED`

Required: No

QuestionId

The ID of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

QuestionTitle

The title of the question.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ShareInvitation

The share invitation.

Contents

LensAlias

The alias of the lens, for example, `serverless`.

Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

LensArn

The ARN for the lens.

Type: String

Required: No

ShareInvitationId

The ID assigned to the share invitation.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

ShareResourceType

The resource type of the share invitation.

Type: String

Valid Values: `WORKLOAD` | `LENS`

Required: No

WorkloadId

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ShareInvitationSummary

A share invitation summary return object.

Contents

LensArn

The ARN for the lens.

Type: String

Required: No

LensName

The full name of the lens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

PermissionType

Permission granted on a workload share.

Type: String

Valid Values: READONLY | CONTRIBUTOR

Required: No

SharedBy

An AWS account ID.

Type: String

Pattern: [0-9]{12}

Required: No

SharedWith

The AWS account ID or IAM role with which the workload is shared.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 2048.

Required: No

ShareInvitationId

The ID assigned to the share invitation.

Type: String

Pattern: [0-9a-f]{32}

Required: No

ShareResourceType

The resource type of the share invitation.

Type: String

Valid Values: `WORKLOAD` | `LENS`

Required: No

WorkloadId

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

WorkloadName

The name of the workload.

The name must be unique within an account within an AWS Region. Spaces and capitalization are ignored when checking for uniqueness.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ValidationExceptionField

Stores information about a field passed inside a request that resulted in an exception.

Contents

Message

Description of the error.

Type: String

Required: Yes

Name

The field name for which validation failed.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VersionDifferences

The differences between the base and latest versions of the lens.

Contents

PillarDifferences

The differences between the base and latest versions of the lens.

Type: Array of [PillarDifference](#) (p. 154) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Workload

A workload return object.

Contents

AccountIds

The list of AWS account IDs associated with the workload.

Type: Array of strings

Array Members: Maximum number of 100 items.

Pattern: [0-9]{1,2}

Required: No

ArchitecturalDesign

The URL of the architectural design for the workload.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

AwsRegions

The list of AWS Regions associated with the workload, for example, `us-east-2`, or `ca-central-1`.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Maximum length of 100.

Required: No

Description

The description for the workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 250.

Required: No

Environment

The environment for the workload.

Type: String

Valid Values: `PRODUCTION` | `PREPRODUCTION`

Required: No

ImprovementStatus

The improvement status for a workload.

Type: String

Valid Values: NOT_APPLICABLE | NOT_STARTED | IN_PROGRESS | COMPLETE |
RISK_ACKNOWLEDGED

Required: No

Industry

The industry for the workload.

Type: String

Length Constraints: Maximum length of 100.

Required: No

IndustryType

The industry type for the workload.

If specified, must be one of the following:

- Agriculture
- Automobile
- Defense
- Design and Engineering
- Digital Advertising
- Education
- Environmental Protection
- Financial Services
- Gaming
- General Public Services
- Healthcare
- Hospitality
- InfoTech
- Justice and Public Safety
- Life Sciences
- Manufacturing
- Media & Entertainment
- Mining & Resources
- Oil & Gas
- Power & Utilities
- Professional Services
- Real Estate & Construction
- Retail & Wholesale
- Social Protection
- Telecommunications
- Travel, Transportation & Logistics
- Other

Type: String

Length Constraints: Maximum length of 100.

Required: No

IsReviewOwnerUpdateAcknowledged

Flag indicating whether the workload owner has acknowledged that the *Review owner* field is required.

If a **Review owner** is not added to the workload within 60 days of acknowledgement, access to the workload is restricted until an owner is added.

Type: Boolean

Required: No

Lenses

The list of lenses associated with the workload. Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

NonAwsRegions

The list of non-AWS Regions associated with the workload.

Type: Array of strings

Array Members: Maximum number of 5 items.

Length Constraints: Minimum length of 3. Maximum length of 25.

Required: No

Notes

The notes associated with the workload.

Type: String

Length Constraints: Maximum length of 2084.

Required: No

Owner

An AWS account ID.

Type: String

Pattern: [0-9]{12}

Required: No

PillarPriorities

The priorities of the pillars, which are used to order items in the improvement plan. Each pillar is represented by its [PillarReviewSummary:PillarId](#) (p. 155).

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

ReviewOwner

The review owner of the workload. The name, email address, or identifier for the primary group or individual that owns the workload review process.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

ReviewRestrictionDate

The date and time recorded.

Type: Timestamp

Required: No

RiskCounts

A map from risk names to the count of how questions have that rating.

Type: String to integer map

Valid Keys: UNANSWERED | HIGH | MEDIUM | NONE | NOT_APPLICABLE

Valid Range: Minimum value of 0.

Required: No

ShareInvitationId

The ID assigned to the share invitation.

Type: String

Pattern: [0-9a-f]{32}

Required: No

Tags

The tags associated with the workload.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

UpdatedAt

The date and time recorded.

Type: Timestamp

Required: No

WorkloadArn

The ARN for the workload.

Type: String

Required: No

WorkloadId

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

WorkloadName

The name of the workload.

The name must be unique within an account within an AWS Region. Spaces and capitalization are ignored when checking for uniqueness.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

WorkloadShare

A workload share return object.

Contents

PermissionType

Permission granted on a workload share.

Type: String

Valid Values: `READONLY` | `CONTRIBUTOR`

Required: No

SharedBy

An AWS account ID.

Type: String

Pattern: `[0-9]{12}`

Required: No

SharedWith

The AWS account ID or IAM role with which the workload is shared.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 2048.

Required: No

ShareId

The ID associated with the workload share.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

Status

The status of a workload share.

Type: String

Valid Values: `ACCEPTED` | `REJECTED` | `PENDING` | `REVOKED` | `EXPIRED`

Required: No

WorkloadId

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

WorkloadName

The name of the workload.

The name must be unique within an account within an AWS Region. Spaces and capitalization are ignored when checking for uniqueness.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

WorkloadShareSummary

A workload share summary return object.

Contents

PermissionType

Permission granted on a workload share.

Type: String

Valid Values: `READONLY` | `CONTRIBUTOR`

Required: No

SharedWith

The AWS account ID or IAM role with which the workload is shared.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 2048.

Required: No

ShareId

The ID associated with the workload share.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

Status

The status of a workload share.

Type: String

Valid Values: `ACCEPTED` | `REJECTED` | `PENDING` | `REVOKED` | `EXPIRED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

WorkloadSummary

A workload summary return object.

Contents

ImprovementStatus

The improvement status for a workload.

Type: String

Valid Values: NOT_APPLICABLE | NOT_STARTED | IN_PROGRESS | COMPLETE | RISK_ACKNOWLEDGED

Required: No

Lenses

The list of lenses associated with the workload. Each lens is identified by its [LensSummary:LensAlias](#) (p. 147).

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Owner

An AWS account ID.

Type: String

Pattern: [0-9]{12}

Required: No

RiskCounts

A map from risk names to the count of how questions have that rating.

Type: String to integer map

Valid Keys: UNANSWERED | HIGH | MEDIUM | NONE | NOT_APPLICABLE

Valid Range: Minimum value of 0.

Required: No

UpdatedAt

The date and time recorded.

Type: Timestamp

Required: No

WorkloadArn

The ARN for the workload.

Type: String

Required: No

WorkloadId

The ID assigned to the workload. This ID is unique within an AWS Region.

Type: String

Pattern: `[0-9a-f]{32}`

Required: No

WorkloadName

The name of the workload.

The name must be unique within an account within an AWS Region. Spaces and capitalization are ignored when checking for uniqueness.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400