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## ??? Quota? ??

AWS [IAM](#) [Groups](#) [Users](#) HealthOmics [Quota](#) [Limits](#) . [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) . ( [IAM](#) [Groups](#) [Users](#) [Permissions](#) )

- [IAM](https://docs.aws.amazon.com/general/latest/gr/healthomics-quotas.html) [Groups](https://docs.aws.amazon.com/general/latest/gr/healthomics-quotas.html) : <https://docs.aws.amazon.com/general/latest/gr/healthomics-quotas.html>
- Quota: <https://docs.aws.amazon.com/omics/latest/dev/quotas.html>

## HealthOmics Etag ? ??? ??

HealthOmics [Etag](#) [Hash](#) [Provenance](#) [Read sets](#) . [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) .

Etag [Provenance](#) [Read sets](#) [Hash](#) [Provenance](#) [Read sets](#) [Hash](#) [Provenance](#) . [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) . [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) . [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) .

HealthOmics [Etag](#) [Hash](#) [Provenance](#) [Read sets](#) [Hash](#) [Provenance](#) [Read sets](#) / [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) . [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) .

[IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) .

<https://docs.aws.amazon.com/omics/latest/dev/etags-and-provenance.html>

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HealthOmics [Transfer Manager](#) [S3](#) [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) . [IAM](#) [Groups](#) [Users](#) [Permissions](#) [Policies](#) .

<https://docs.aws.amazon.com/omics/latest/dev/synchronous-uploads.html>

# ??? ????? ?? ????? ?? 3rd party?? ?? ????

- Integrative Genomics Viewer (IGV) UCSC Genome Browser
- CWL, WDL Nextflow Amazon S3 Amazon S3
- Amazon S3 URIs presigned Amazon S3 URIs
- Mountpoint CloudFront Amazon S3

<https://docs.aws.amazon.com/omics/latest/dev/s3-access.html>

## ?? ?? ??

HealthOmics ACTIVE ARCHIVE .

ACTIVE .30 ARCHIVE

ACTIVE . ReadSet Amazon S3 Glacier Instant Retrieval Storage Class

2023 10 1Gbase 3 110Gbase 2 45

<https://docs.aws.amazon.com/omics/latest/dev/activating-read-sets.html>

## ?? ??? ???

AWS Lake Formation Amazon Athena Amazon EMR

2024 9 26 HealthOmics ID

HealthOmics CLI . . . . .  
HealthOmics . . . . .

HealthOmics CLI ID PHI . . . . .  
HealthOmics CLI . (HIPAA )

## ????? ? ? ? ?

HealthOmics CLI . . . . .  
HealthOmics CLI . . . . .

WDL HealthOmics CLI . . . . . get-Workflow  
CLI StatusMessage CLI CLI CLI . CLI CLI CLI ( CLI  
WDL CLI ID ) .

- **WDL** – A public Amazon ECR image to run a [WDL linter](#).
- **Nextflow** – A public Amazon ECR image to run [Linter rules for Nextflow](#). You can access the source code for this linter from [GitHub](#).
- **CWL** – not available

<https://docs.aws.amazon.com/omics/latest/dev/workflows-linter.html>

## ??????? ? ? ?

HealthOmics CLI . . . . .  
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<https://docs.aws.amazon.com/omics/latest/dev/workflows-call-caching.html>

# HealthOmics? ?? ??

- HealthOmics variant stores, HealthOmics annotation stores, Private workflows

<https://docs.aws.amazon.com/omics/latest/dev/resource-sharing.html>

# HealthOmics? ?? ?? (EventBridge ??)

<https://docs.aws.amazon.com/omics/latest/dev/eventbridge.html>

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