



AWS Fault Injection Service

Experiment report

Published: November 5, 2024



Experiment report

Experiment details

Experiment ID

EXPmj813SqMRdj713G

Experiment template ID

EXT4e6iQpxfqPTS5e

Date

5 Nov 2024 20:45:14

Experiment status

 completed

Stop conditions

-

Duration

0H 50M 13S

AWS account ID(s)

[REDACTED]

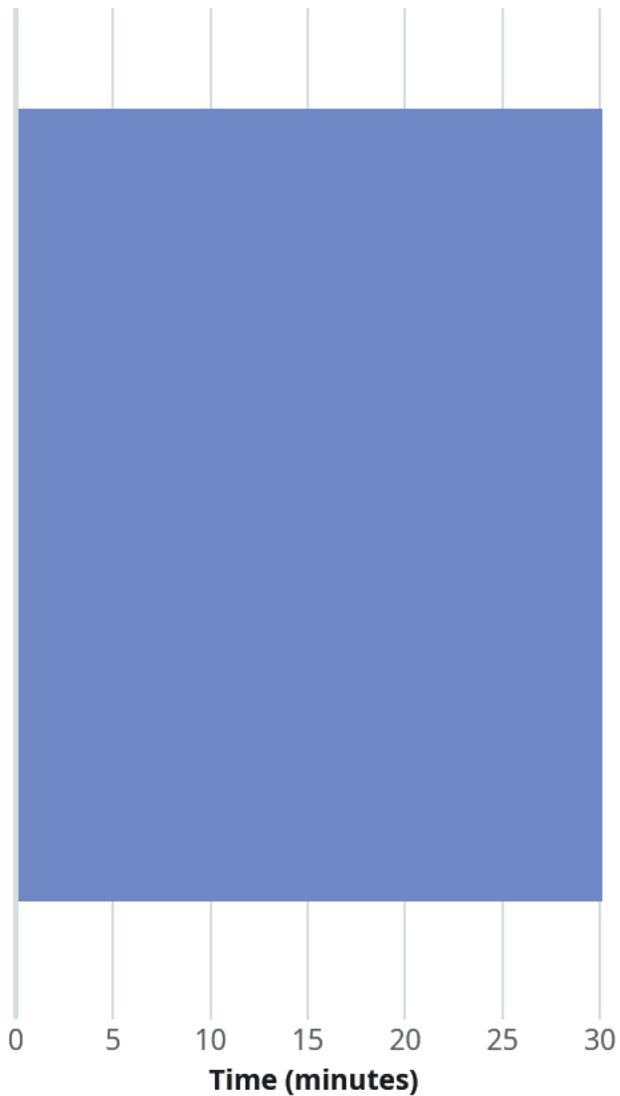
Region

us-east-1

Timeline

Action

injectPacketLoss



■ Duration

Key metrics

Canary Response Times (p99)

Various units



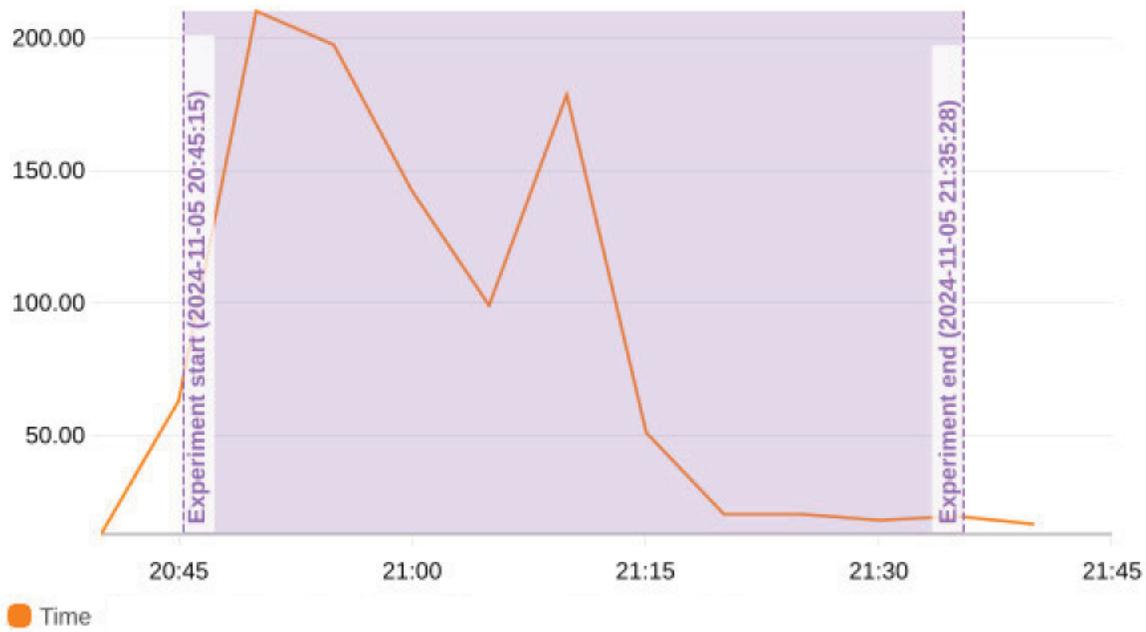
Canary Response Times use1-az4 (p99)

Various units



Canary Response Times use1-az6 (p99)

Various units

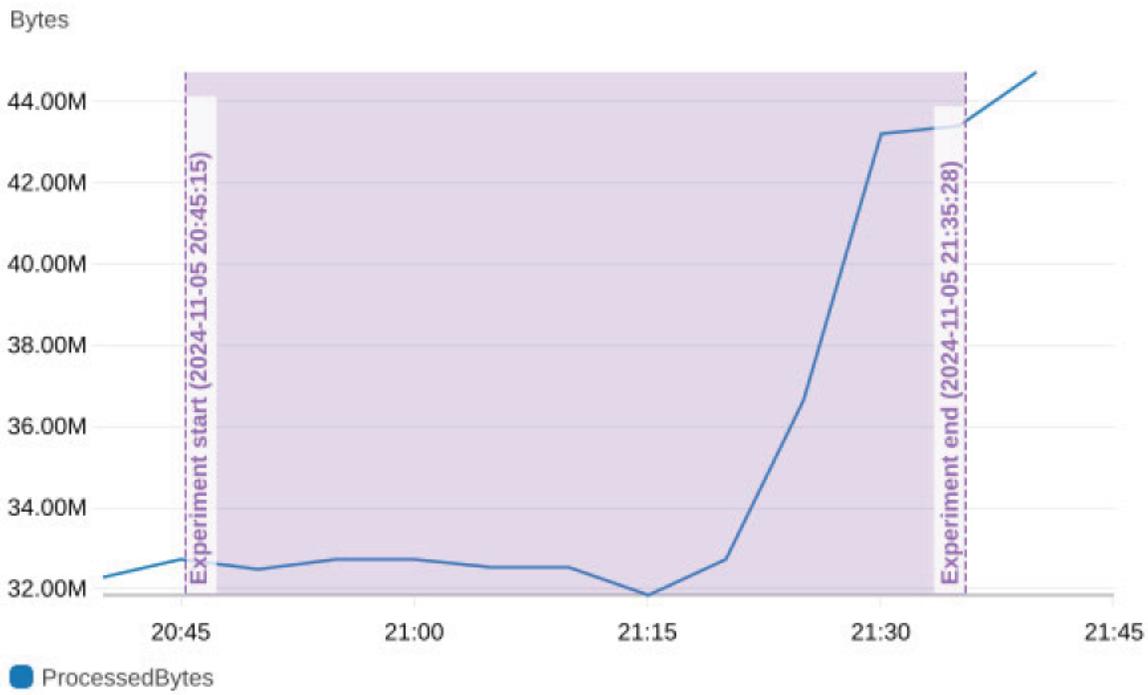


Canary Response Times use1-az1 (p99)

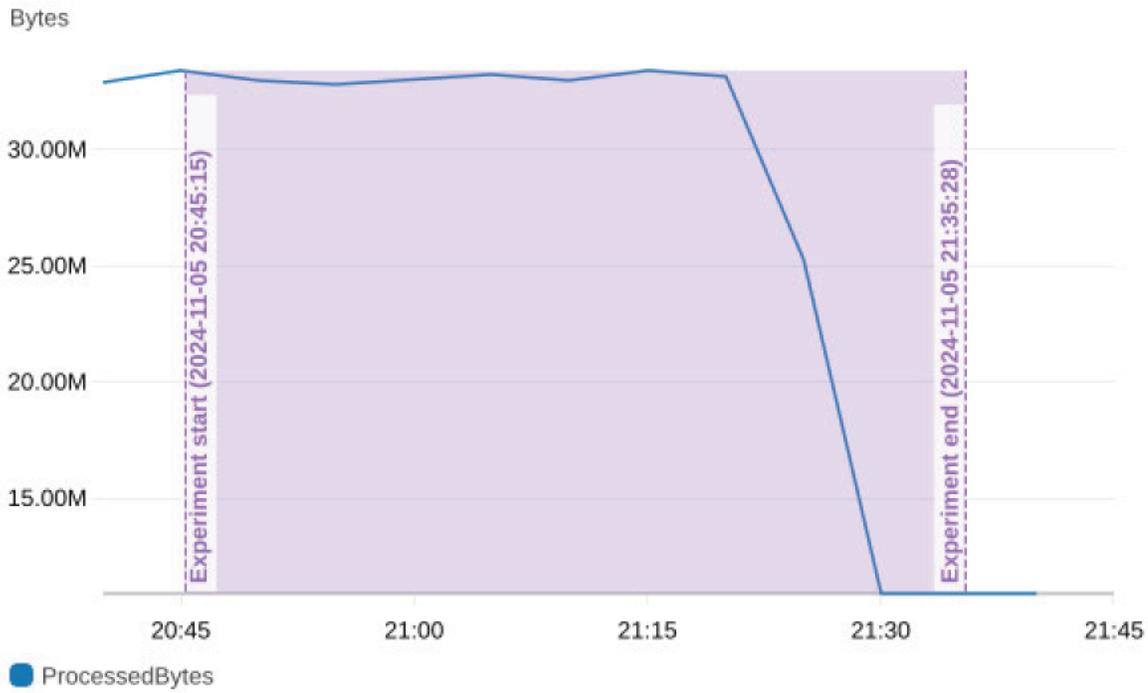
Various units



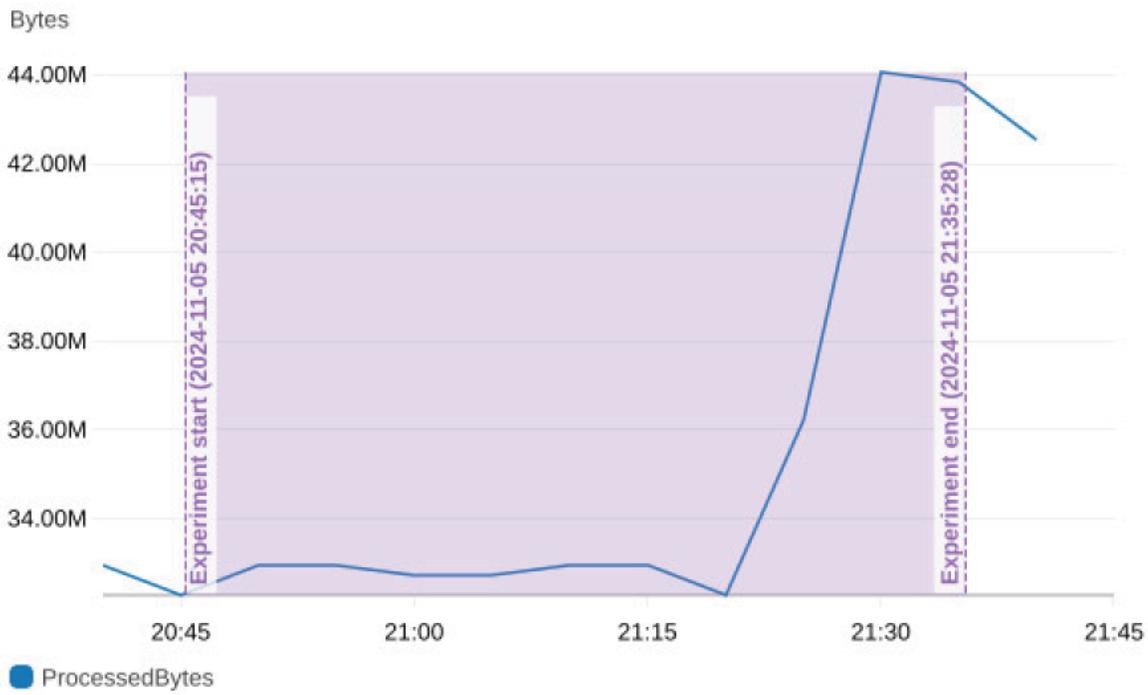
NLB ProcessedBytes use1-az4



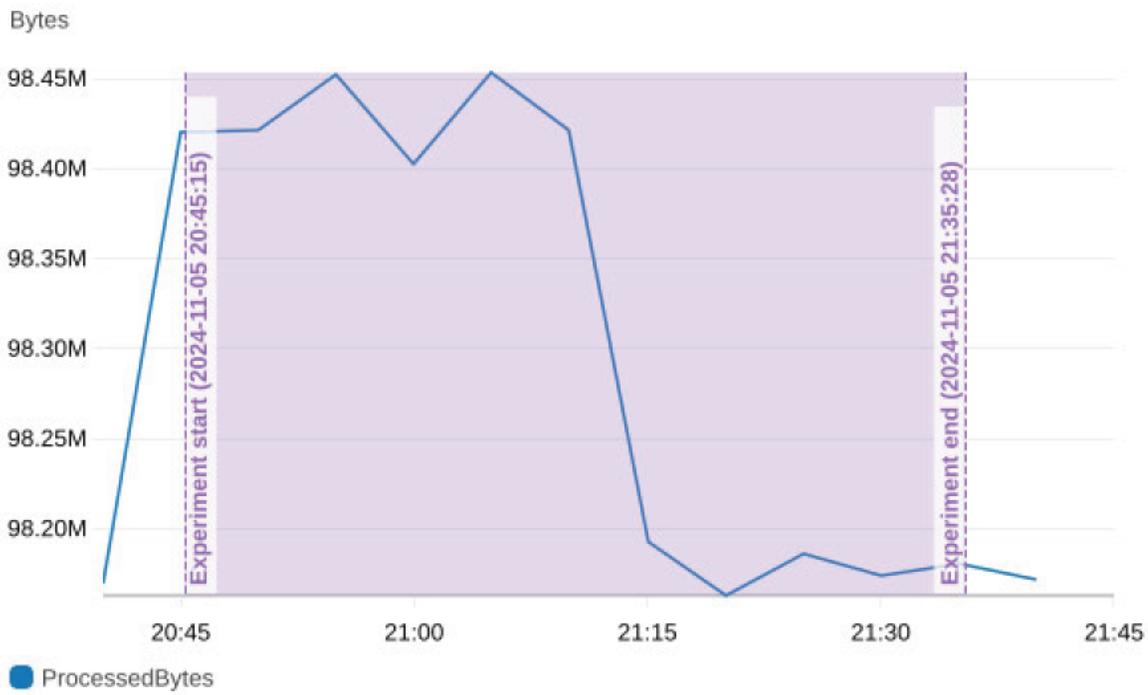
NLB ProcessedBytes use1-az6



NLB ProcessedBytes use1-az1



NLB ProcessedBytes





Detailed experiment activity

Target	Action	Timestamp	Action status
AZ-B-Instances	injectPacketLoss	5 Nov 2024 20:45:27	running
		5 Nov 2024 21:15:42	completed



Experiment targets detail

Target name / target	Action name / action	AWS account ID(s)	Tag (count)	ARN
AZ-B-Instances / aws:ec2:instance	injectPacketLoss / aws:ssm:send-command	[REDACTED]	Stack=ZoneShiftExperiment (2)	-



Glossary of terms

AWS Regions are separate geographic areas. AWS Regions consist of multiple, physically separated and isolated Availability Zones that are connected with low latency, high throughput, highly redundant networking.

Availability Zones consist of one or more discrete data centers, each with redundant power, networking, and connectivity, and housed in separate facilities.

AWS Fault Injection Service (AWS FIS) is a managed service that enables you to perform fault injection experiments on your AWS workloads. Fault injection is based on the principles of chaos engineering. These experiments stress an application by creating disruptive events so that you can observe how your application responds. You can then use this information to improve the performance and resiliency of your applications so that they behave as expected.

An *action* is an activity that AWS FIS performs on an AWS resource during an experiment. AWS FIS provides a set of preconfigured actions based on the type of AWS resource. Each action runs for a specified duration during an experiment, or until you stop the experiment. Actions can run sequentially or simultaneously (in parallel).

A *target* is one or more AWS resources on which AWS FIS performs an action during an experiment. You can choose specific resources, or you can select a group of resources based on specific criteria, such as tags or state.

AWS FIS provides the controls and guardrails that you need to run experiments safely on your AWS workloads. A stop condition is a mechanism to stop an experiment if it reaches a threshold that you define as an Amazon CloudWatch alarm. If a stop condition is triggered while the experiment is running, AWS FIS stops the experiment.