

## LiveShopper SASSIE DR Test Plan and results

Purpose: This document outlines LiveShopper SASSIE disaster recovery plan for LiveShopper SASSIE production AWS-based systems. LiveShopper SASSIE has designed and implemented a fault tolerant system that runs on an already redundant Amazon Web Services architecture. Each systems' fail-over resides in separate availability zones in the event a data-center has a disastrous event. The following notes are for our Production servers

### Server Loss

All AWS servers have nightly snapshots created in the event of a complete server loss. The server will be recovered from the previous nightly snapshot.

<u>Date</u>	<u>Result</u>	<u>System Resource</u>
1/15/2023	PASSED	Log Into AWS
1/15/2023	PASSED	Select AMI from nightly backup
1/15/2023	PASSED	Launch AMI into new virtual machine
1/15/2023	PASSED	Start appropriate services

### Database Recovery

All Database servers have a slave and a master. Should the master fail we promote the slave. In addition to AWS snapshots we take table-level logical database backups.

<u>Date</u>	<u>Result</u>	<u>System Resource</u>
1/15/2023	PASSED	stop database process on master
1/15/2023	PASSED	promote slave to master
1/15/2023	PASSED	if server is not recoverable perform steps in server loss
1/15/2023	PASSED	if the server is available a table-level backup can be recovered.
1/15/2023	PASSED	rebuild slave and begin replication

### Web Server Recovery

All web servers run behind load balancers across multiple availability zones. Should a web server fail the load balancer will distribute the web services across remaining servers.

<u>Date</u>	<u>Result</u>	<u>System Resource</u>
1/15/2023	PASSED	recover web server using the server loss instructions

### Load Balance

Load Balancers exist in multiple regions. Should the primary fail, a slave will automatically start after 90 seconds of non-responsiveness on the primary.

<u>Date</u>	<u>Result</u>	<u>System Resource</u>
1/15/2023	PASSED	recover failed load balancer using server loss instructions

Test reviewed by:

Anthony P. Felos III, CISO

Robert Swalley, Security Compliance Manage