

# AppSentinels API Security Platform Backup & restore



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# 1. Introduction

# The document outlines two main methods:

- 1. Platform directory restore to New Instance:
  - Takes a backup of the as platform directory
  - Involves creating a new user with sudo access (optional)
  - Requires checking and configuring proxy settings
  - Installation of Docker and docker-compose
  - Pulling AppSentinels images using a login token
  - Setting up necessary user groups and permissions
  - Configuring the hostname and IP addresses
  - Bringing up AppSentinels services using docker-compose
- 2. Snapshot and Restore to New Instance (AWS EC2 focused):
  - Creating a volume snapshot from the existing instance
  - Creating a new volume from the snapshot
  - Setting up a new EC2 instance
  - Detaching the original volume and attaching the snapshot-created volume
  - Updating IP configurations in docker-compose
  - Starting the services on the new instance

# Please note that

- Both the above methods preserve existing data and configurations
- Users can log in with the same credentials after restoration
- Requires careful attention to IP address updates in configurations
- Involves Docker container management
- Includes specific steps for different operating systems (Ubuntu vs RHEL)

# 2. Method 1: Platform directory restore to New Instance:

On Running Platform, please take a back up the as\_platform directory as a

# On a New Instance follow the below steps

2. Create user with sudo access (OPTIONAL, recommended if allowed to create separate user or use existing user with sudo priviliges)

Ignore this step if the user is already created.

- sudo useradd -m -s /bin/bash appsentinels
- sudo passwd appsentinels
- sudo usermod -aG sudo appsentinels (if Ubuntu)



sudo usermod -aG wheel appsentinels (if REDHAT)

- su - appsentinels (change to appsentinels user)

```
[ec2-user@ip-10-101-3-250 ~]$ sudo useradd -m -s /bin/bash appsentinels [ec2-user@ip-10-101-3-250 ~]$ sudo passwd appsentinels Changing password for user appsentinels.

New password:

Retype new password:

passwd: all authentication tokens updated successfully.

[ec2-user@ip-10-101-3-250 ~]$ sudo usermod -aG wheel appsentinels [ec2-user@ip-10-101-3-250 ~]$ su - appsentinels

Password:

[appsentinels@ip-10-101-3-250 ~]$
```

- 3. Check the proxy settings
- Check the proxy configuration
- if proxy enabled, it should be disabled or excluded for localhost & HOST IP
- Docker environment should not be using proxy
- 4. Download the AppSentinels Platform installation files to home directory of appsentinels

wget appsentinels-platform-installation-XX.XX.RX.tar.gz

- 5. Install docker & docker-compose
- cd pre-req
- bash docker-install.sh
- logout & login. Change user back to appsentinels
- 6. Pull appsentinels images
  - cd pre-req
- Please run below command to pull the docker images. Please Ask Appsentinels Team for the logintoken

bash appsentinelsimages.sh < logintoken>



```
[appsentinels@ip-10-101-3-250 **]$ cd installation/
[appsentinels@ip-10-101-3-250 installation]$ ls

certs check_list.txt config_files deployment_src install_saas pre-req readme.txt utils
[appsentinels@ip-10-101-3-250 installation]$ cd pre-req/
[appsentinels@ip-10-101-3-250 pre-req]$ ls
appsentinels@ip-10-101-3-250 pre-req]$ ls
appsentinelsimages.sh docker-install-rhel.sh docker-install-ubuntu.sh other-utils-install-rhel.sh

configure_docker_to_use_proxy.txt docker-install.sh docker-rpm-download.txt other-utils-install-ubuntu.sh
[appsentinels@ip-10-101-3-250 pre-req]$ ls -lrt

total_36

rw-rw-ry-- 1 appsentinels appsentinels 170 Oct_25_11:04 other-utils-install-ubuntu.sh

rw-rw-ry-- 1 appsentinels appsentinels 151 Oct_25_11:04 other-utils-install-ubuntu.sh

rw-rw-ry-- 1 appsentinels appsentinels 1292 Oct_25_11:04 other-utils-install-ubuntu.sh

rw-rw-ry-- 1 appsentinels appsentinels 2192 Oct_25_11:04 other-utils-install-ubuntu.sh

rw-rw-ry-- 1 appsentinels appsentinels 5164 Oct_25_11:04 docker-install-ubuntu.sh

rw-rw-ry-- 1 appsentinels appsentinels 5164 Oct_25_11:04 docker-install.sh

-rw-rw-ry-- 1 appsentinels appsentinels 631 Oct_25_11:04 docker-install-rhel.sh

-rw-rw-ry-- 1 appsentinels appsentinels 631 Oct_25_11:04 docker-install-rhel.sh

-rw-rw-ry-- 1 appsentinels appsentinels 631 Oct_25_11:04 docker-install-rhel.sh

-rw-rw-ry-- 1 appsentinels appsentinels 631 Oct_25_11:04 docker-install-sh

-rw-rw-ry-- 1 appsentinels_appsentinels_630 pre-req]$ bash docker-install-sh

-rw-rw-ry-- 1 appsentinels_appsentinels_630 pre-req]$ bash appsentinels_630-10-10-101-3-250 pre-req]$ bash appsentinels_630-10-101-3-250 pre-req]$ bash appsentinels_6
```

## 7. if RHEL or AL2 then run below commands

```
sudo groupadd docker-sentinels
sudo groupadd data-sentinels
sudo groupadd data-analysis
```

sudo usermod -aG docker-sentinels \$USER sudo usermod -aG data-sentinels \$USER sudo usermod -aG data-analysis \$USER sudo usermod -aG adm \$USER

#### Other OS run below commands

sudo addgroup docker-sentinels sudo addgroup data-sentinels sudo addgroup data-analysis

sudo adduser \$USER docker-sentinels sudo adduser \$USER data-sentinels sudo adduser \$USER data-analysis



#### sudo adduser \$USER adm

```
[appsentinels@ip-10-101-3-250 /]$ sudo groupadd docker-sentinels
[sudo] password for appsentinels:
[appsentinels@ip-10-101-3-250 /]$ sudo groupadd data-sentinels
[appsentinels@ip-10-101-3-250 /]$ sudo groupadd data-analysis
[appsentinels@ip-10-101-3-250 /]$ sudo usermod -aG docker-sentinels $USER
[appsentinels@ip-10-101-3-250 /]$ sudo usermod -aG data-sentinels $USER
[appsentinels@ip-10-101-3-250 /]$ sudo usermod -aG data-analysis $USER
[appsentinels@ip-10-101-3-250 /]$ sudo usermod -aG adm $USER
[appsentinels@ip-10-101-3-250 /]$
```

- 8. Logout & login
- 9. untar the as\_platform back up taken from prepious instance and move it to BASE\_DIR path

```
[appsentinels@ip-10-101-3-250 /]$ sudo tar -xf as_platform.tar.gz
```

- 10. Navigate to /as\_platform/deployment folder
- 11. The hostname should be DNS resolvable, if not add entry to /etc/hosts in the server
- 12. Edit the docker-compose.yaml file and change the IP which is referenced under extra\_hosts in entire file to new IP

```
environment:

- Difact UNT-pactgrasol://Remp:knop@estarcs:#032/policy'
- policy.component_url=https://al2.appsentinels.ai/
spasse:
- 5002
restart: on-failure
networks:
ingestion:
aliases:
- scheduler
extra.hosts:
- devops.connection
logging:
docker-scheduler
userinterface:
inage: appsentinels.ai:[0.101.2.250*

restart: on-failure
networks:
ingestion:
aliases:
- userinterface
inage: appsentinelsai/appsentinels-ui:24.89.R1
exposs:
restart: on-failure
networks:
- userinterface
entworks:
- userinterface
entworks:
- userinterface
entwironment:
- AUTH_KEY:Reycloak
- DOMAIN=https://al2.appsentinels.ai
- REQLAMIN=https://al2.appsentinels.ai
- REQLAMIN=https://al2.appsentinels.ai
- REQLAMIN=https://al2.appsentinels.ai
- related - possentinels ai: [0.10] 3.58*
deploy:
restart_policy:
restart_polic
```

13. if sensor is deployed in the same host, then change the REMOTE\_CONTROLLER\_SERVER\_NAME to new IP, otherwise skip this step



```
version: "3.3"
services:
  sniffer
    container_name: sniffer-sensor
    restart: on-failure:5
    image: appsentinels/ng-controller:latest
    hostname: appsentinels-sniffer-sensor
    environment
       REMOTE_CONTROLLER_SERVER_NAME=10.1REMOTE_CONTROLLER_SERVER_PORT=9006
                                                1.3.250

    ENVIRONMENT=scale

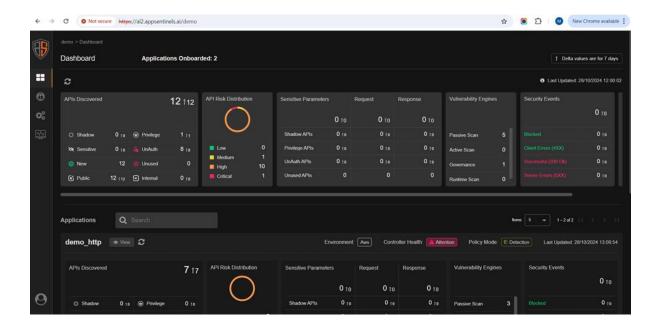
      - TAP_INTERFACE=default

    TAP_FILTER=port-8000-and-tcp

      - RELAY_PROTOCOL=http
    network_mode
    logging:
      driver: local
      options:
        max-size 10m
    volumes
        /var/crash:/var/crash
        /var/log/appsentinels:/var/log/appsentinels
  http_service:
```

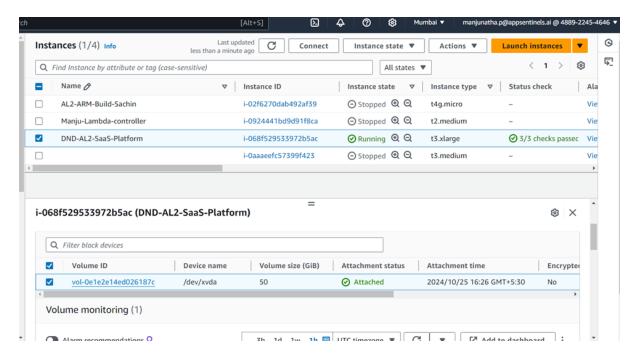
- 14. bring up the appsentinels services by running below command docker-compose up –d
- 15. bring up the sensor if is deployed in the same instance otherwise skip this step docker-compose –f <filename> up –d
- 16. Login to Appsentinels Platform with same credentials



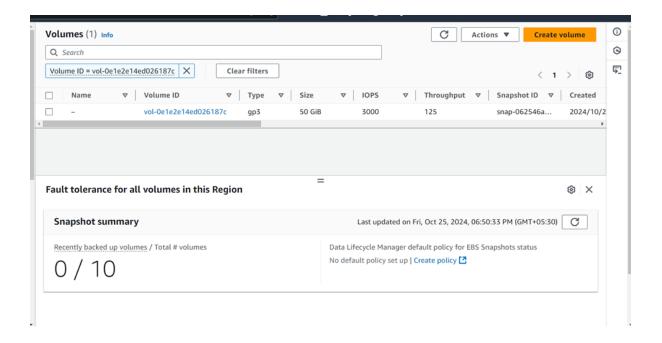


- 3. Method 2: Snapshot and Restore to New Instance
- 1. Select the Instance, Click on Storage, Click on the Volume



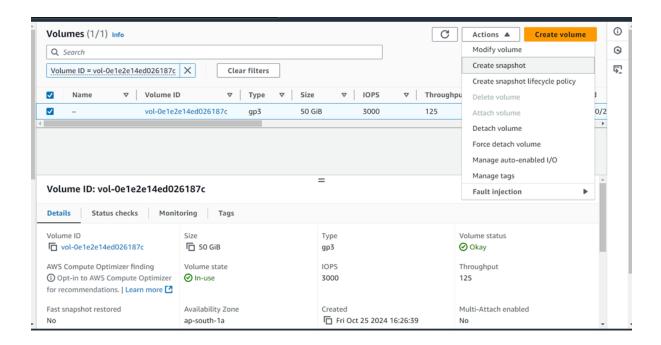


2. Volume is displayed

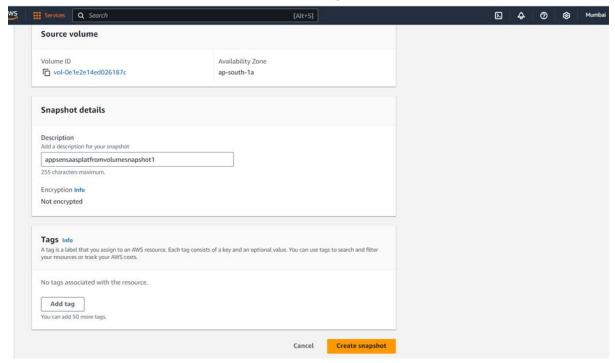


3. Select the Volume & Select Create Snapshot in Actions Dropdown





4. Provide the Details & click on Create Snapshot

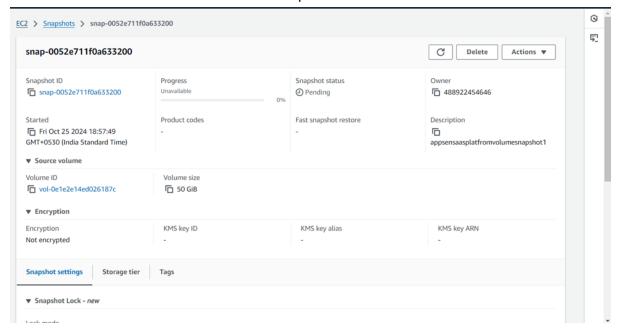


5. Snapshot will be created and click on the snapshot click

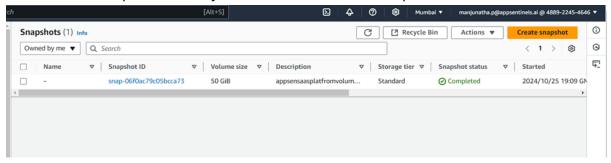




6. It will take some time to create snapshot

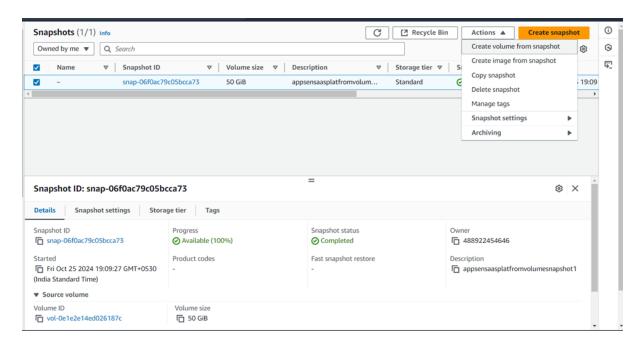


7. Once Snapshot is ready it will show status as Completed

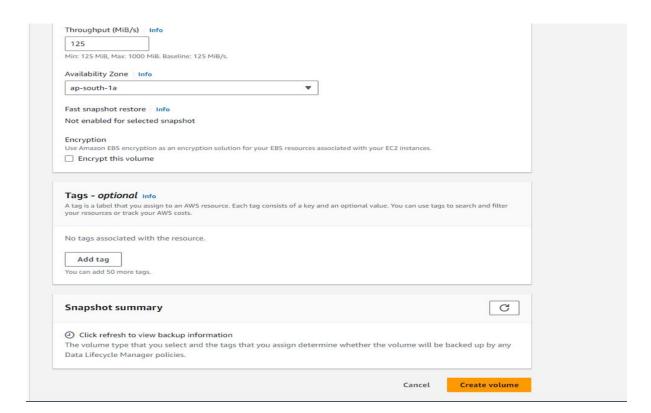


8. Select the snpshot & Click on Create Volume from snapshot in Actions dropdown



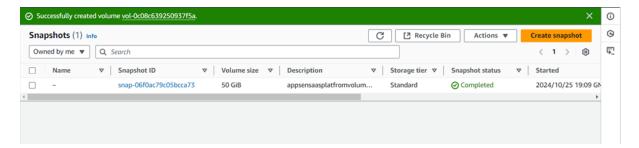


# 9. Provide the Details & click on Create Volume

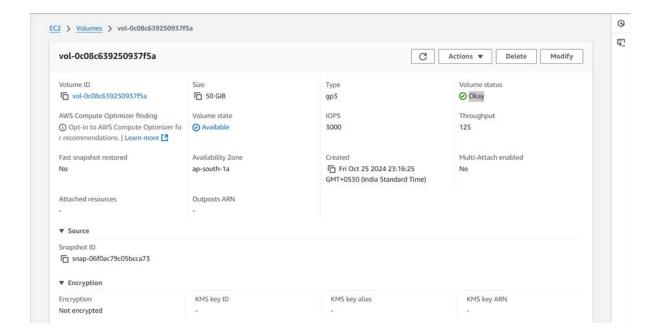


# 10. It will show the create volumn and click on it



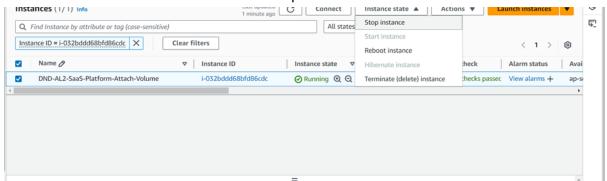


# 11. Wait for Volume status to be Okay



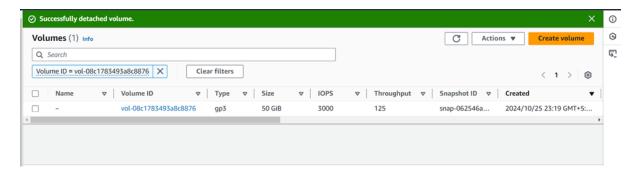
# 12. Stop the Previous running SaaS Platform Instance

13. Create the New Ec2 Instance & Stop the instance

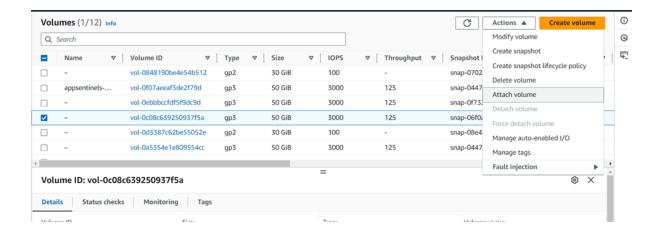


14. Go to the Volume of the newly created ec2 instance and Detach the Volume



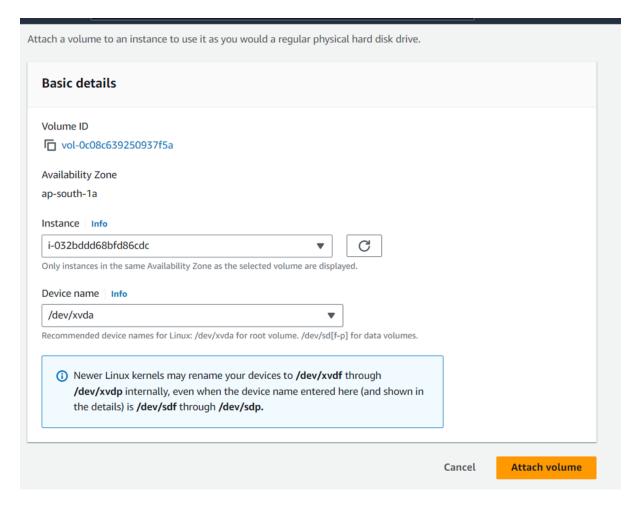


15. Not select the Volume created from the snapshot and click on Attach Volume in Actions Dropdown

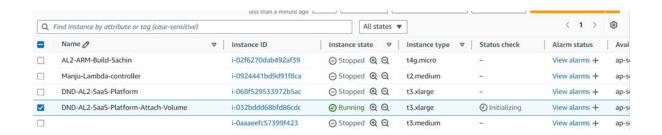


16. Provide the ec2 instance ID & Device Name and click on Attach Volume





## 17. Start the ec2 instance



18. Login to ec2 instance & switch to the user created previously (when platform installation done)



- 19. Navigate to deployment folder cd /as\_platform/deployment/
- 20. Start the docker service sudo systematl start docker

```
[appsentinels@ip-10-101-3-54 ~]$ cd /as_platform/
[appsentinels@ip-10-101-3-54 as_platform]$ sudo systemctl start docker
[appsentinels@ip-10-101-3-54 as_platform]$ ls

data data-analysis deployment log
[appsentinels@ip-10-101-3-54 as_platform]$ cd deployment/
[appsentinels@ip-10-101-3-54 deployment]$
```

21. Edit the docker-compose

```
[appsentinels@ip-10-101-3-54 deployment]$ sudo vi docker-compose.yaml
```

22. Change the IP of the previous systemIP to the new one under extra\_hosts in the entire file

Ex: Previous IP was 10.101.3.222 and new IP: 10.101.2.54



```
condition: on-failure
     resources
       limits
         cpus:
         memory 256M
   logging
     driver: syslog
     options
       tag: docker-hygiene
 dast-controller
   image: appsentinelsai/dast-controller:24.09.R1
   restart: on-failure
   networks
     ingestion
       aliases
         dast-controller
   extra_hosts
   deploy
     restart_policy:
       condition: on-failure
     resources
       limits
         cpus: '1.00'
         memory: 4096M
   environment
     LOG_LEVEL=INFO
     - policy_api_timeout=60
   volumes
     devops_connection
   logging:
     driver syslog
     options
       tag: docker-dast-controller
 learning-controller:
"docker-compose.yaml" 1366L, 33299B
```

23. Bring up the docker services sudo docker-compose up -d

24. Now access the Dashboard and login with same credentials. All the Data is restored and available in the new ec2 instance



