Incident Response



# Incident & Incident Response



Any event which poses a threat to security is an incident



Incident response is our response to such events



Sample incidents could be: failed attempt to break into the system, loss of a hard drive with sensitive data and so on



Incident response could be different for cloud than for our own data center, because we do not have control over hardware in the cloud

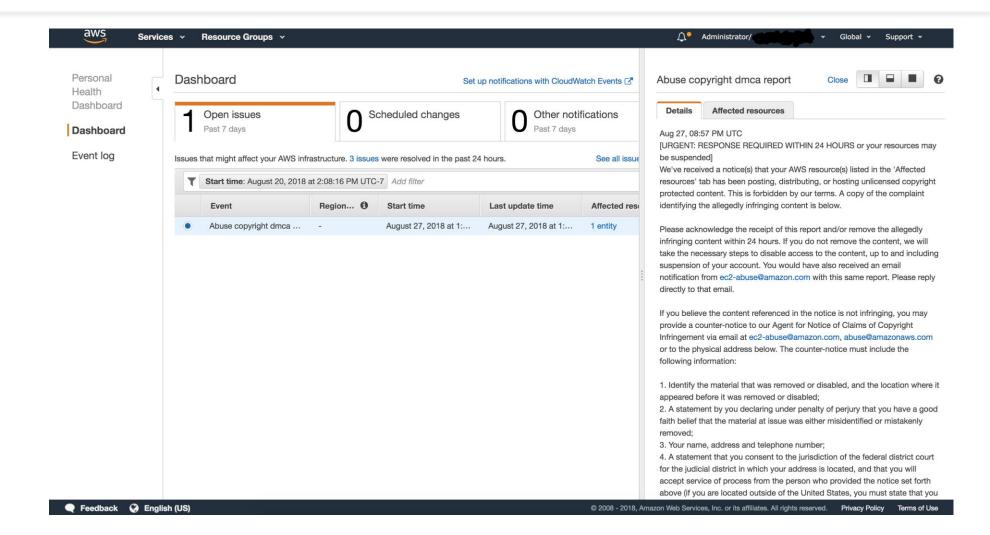
#### Evidence Collection & RCA

- You can collect AWS Logs which can help in RCA
  - VPC Flow Logs
  - Cloud Trail Logs
  - Guard Duty Logs

#### AWS Abuse Notice

- AWS does not allow customers to perform certain activities
  - Port Scanning
  - Denial of Service Attack
  - Hosting of Copyrighted content
  - Distributing Malware
  - Intrusion Attempts
- An abuse notice will send if the user is engaged in any of these activities
- If your systems are subjected to malicious attacks from AWS IPs you can submit an abuse notice

#### Sample Abuse Notice Image



#### Dealing with Exposed Keys

- Keys can be exposed
  - When developers share keys
  - When keys are hardcoded in application
  - When keys are committed to Git Repository
- When you get to know a key is exposed
  - Find out the access levels associated with the key
  - Invalidate the credentials
  - Invalidate Temporary credentials if they were issued

# Compromised EC2 Instances



Lock down the instance



Take EBS Snapshot



**Memory Dump** 



Perform Forensic Analysis to determine Root Cause

## Others

- Penetration Testing
- Pre-authorized scanning tools

### Thanks

