

- Filename: eccouncil-ceh31250-v12-19-3-1-hacking-cloud-services.md
- Show Name: CEHv12 (312-50)
- Topic Name: Cloud Computing - Cloud Computing
- Episode Name: Hacking Cloud Services

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Hacking Cloud Services

Objectives:

- Cloud Vulnerability Scan
 - Trivy
 - Clair
 - Dadga
 - Twistlock
 - Kubernetes
 - Sysdig
 - etcd process enumeration
 - key storage
 - API objects
 - Config files
 - Open ports
- S3 Discovery and Enumeration
 - Check source code for S3
 - Brute-Force
 - Attack proxy
 - BucketKicker
 - <https://github.com/craighays/bucketkicker>
 - s3scanner
 - <https://pypi.org/project/S3Scanner/>
 - Grayhat Warfare
 - <https://buckets.grayhatwarfare.com/>
 - S3 Inspector
 - <https://github.com/clario-tech/s3-inspector>
 - Enumerates
 - Bucket permissions
 - Public/Private status
- AWS enumeration
 - Account IDs
 - Github
 - AWS Error messages
 - Public AMIs
 - People posting on social or in help forums
 - IAM Roles and Creds
 - Find Keys here
 - Git Repo
 - Social Engineering
 - Password Reuse
 - Login to AWS and download keys
 - Vulnerable App hosted in AWS

- SSRF
 - <http://4d0cf...6f3b.flaws.cloud/proxy/169.254.169.254/latest/meta-data/iam/security-credentials>
 - 3rd-Party cloud management app
 - Insider Threat
 - IAM Role Misconfiguration
 - PACU (Rhino Security Labs)
 - <https://rhinosecuritylabs.com/aws/pacu-open-source-aws-exploitation-framework/>
 - CloudGOAT 2
 - <https://rhinosecuritylabs.com/aws/introducing-cloudgoat-2/>
- AWS-Pwn
 - https://github.com/dagrz/aws_pwn
- AWS IAM Priv Esc Techniques
 - Create an EC2 instance with existing EC2 profile
 - Needs access to
 - `iam:PassRole`
 - `ec2:RunInstances`
 - Attacker then accesses the OS and looks for AWS keys in metadata
 - Create a new policy version
 - Set custom permissions
 - `--set-as-default` flag
 - Add user to group
 - `iam:AddUserToGroup` permission
 - Add account to existing group
 - User inherits group permissions