

With the increasing shift to cloud infrastructure at the forefront of many organisations, an area commonly underestimated is the process of securing that cloud infrastructure. Mobius Binary's objective is to provide our clients with insight into potential security gaps in their cloud infrastructure and assist with improving that security posture. We offer this through our new service offering: Cloud Penetration Testing.

## THE MOBIUS BINARY APPROACH TO CLOUD PENETRATION TESTING

Mobius Binary takes a holistic approach to Cloud Penetration Testing, which looks at the security posture of the cloud environment (Microsoft Azure, Google Cloud, and Amazon Web Services) from the following perspectives:



### SECURITY CONFIGURATION ANALYSIS

Utilising cloud security benchmarks such as CIS (Center for Internet Security), CSA (Cloud Security Alliance), Amazon, Microsoft and Google.



### VULNERABILITY ASSESSMENT

Utilising open-source/commercial tools and scripts to identify common vulnerabilities within the cloud infrastructure.



### PENETRATION TESTING

Utilising open-source tools and scripts to target focused areas of exploitation that automated tools may not identify.



Testing is performed from authenticated and unauthenticated access levels to ensure complete testing coverage of the cloud infrastructure. At the end of the engagement, a report of the security gaps is issued to the client, and a debrief session is held to ensure that the security gaps are thoroughly discussed.

## COMMON SECURITY GAPS IN CLOUD INFRASTRUCTURE

Online research and recent Cloud Penetration Testing engagements performed at Mobius Binary revealed that the following security gaps are common when penetration testing cloud environments (this is not an exhaustive list of the security gaps):

- Overly permissive firewall configurations
- Publicly accessible insecure storage devices
- Multi-tenant environments not being segregated adequately
- No multi-factor authentication set on Administrative accounts / weak known passwords in use
- Security alerts not being enforced or monitored
- Data not being encrypted at rest or in transit

**CHAT TO US ABOUT YOUR CURRENT CLOUD INFRASTRUCTURE AND HOW MOBIUS BINARY  
CAN ASSIST WITH EVALUATING AND IMPROVING YOUR CLOUD SECURITY POSTURE.**