

To Whom It May Concern:

Rapid7 Consulting conducted web application penetration test of Brainloop Professional Network's security posture from October 17<sup>th</sup> to October 20<sup>th</sup>, 2017. This test was designed to provide an independent, point-in-time, assessment of Brainloop Professional Network's organizational vulnerabilities from the perspective of a malicious actor.

The web application penetration test objectives include:

- Document and demonstrate likely attack vectors.
- Quantify the impact of successful attacks through active exploitation.
- Identify specific vulnerabilities that can be remediated.
- Recommend ways to improve Brainloop Professional Network's overall security posture.

Rapid7 uses a modular methodology that applies testing resources to essential areas in progressing phases:

- Reconnaissance and Enumeration
- Surveying and Identification
- Penetration Testing
- Root Cause Analysis
- DREAD Risk Reporting

The DREAD framework calculates risk based on a 10-point scale with the following criteria:

- **Damage:** If a threat occurs how much damage will be caused?
- **Reproducibility:** How easy it to reproduce the threat?
- **Exploitability:** What is needed to exploit this threat?
- **Affected Users:** How many users will be affected?
- **Discoverability:** How easy is it to discover this threat?

As part of the risk analysis phase, Rapid7 evaluated Brainloop Professional Network's security posture in the areas of:

- **Network Security:** Service Management, Encryption and Privacy, Admission Control, Authorization Control, and Patch Management
- **Susceptibility to Brute-Force Attack:** User Accounts, User Passwords, Service Enumeration, and Service Passwords
- **Internal Prevention and Monitoring:** Logging, Auditing, Intrusion Detection, and Threat Response
- **Open-Source Intelligence Gathering:** User Accounts, Metadata, Social Networks, and Search Engines
- **Social Engineering Awareness:** Phishing, Email Filtering, Endpoint Protection Measures, Awareness Training, and Password Management

Regular security assessments demonstrate Brainloop Professional Network's commitment to their internal security program and helps to identify ways that technical risk can translate into business risk.