# TTP Detail – T1159

## TTP Information

Name: Launch Agent

Description: Per Apple’s developer documentation, when a user logs in, a per-user launchd process is started which loads the parameters for each launch-on-demand user agent from the property list (plist) files found in <code>/System/Library/LaunchAgents</code>, <code>/Library/LaunchAgents</code>, and <code>$HOME/Library/LaunchAgents</code> (Citation: AppleDocs Launch Agent Daemons) (Citation: OSX Keydnap malware) (Citation: Antiquated Mac Malware). These launch agents have property list files which point to the executables that will be launched (Citation: OSX.Dok Malware).  
   
Adversaries may install a new launch agent that can be configured to execute at login by using launchd or launchctl to load a plist into the appropriate directories (Citation: Sofacy Komplex Trojan) (Citation: Methods of Mac Malware Persistence). The agent name may be disguised by using a name from a related operating system or benign software. Launch Agents are created with user level privileges and are executed with the privileges of the user when they log in (Citation: OSX Malware Detection) (Citation: OceanLotus for OS X). They can be set up to execute when a specific user logs in (in the specific user’s directory structure) or when any user logs in (which requires administrator privileges).

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Kill Chain Phases

**•** mitre-attack: persistence