

T1037.001

T1037.002

T1037.004

T1037.005

T1039

T1040

Atomic Test #3 - Dylib Injection via DYLD\_INSERT\_LIBRARIES

# Atomic Test #1 - Shared Library Injection via /etc/ld.so.preload

This test adds a shared library to the ld.so.preload list to execute and intercept API calls. This technique was used by threat actor Rocke during the exploitation of Linux web servers. This requires the glibc package.

Upon successful execution, bash will echo ../bin/T1574.006.so to /etc/ld.so.preload.

Supported Platforms: Linux

auto\_generated\_guid: 39cb0e67-dd0d-4b74-a74b-c072db7ae991

#### Inputs:

Name	Description	Туре	Default Va	
path_to_shared_library_source	Path to a shared library source code	Path	PathToAtomicsFolder/T1574.00	
path_to_shared_library	Path to a shared library object	Path	/tmp/T1574006.so	

Attack Commands: Run with bash! Elevation Required (e.g. root or admin)

```
Q
sudo sh -c 'echo #{path_to_shared_library} > /etc/ld.so.preload'
```

### **Cleanup Commands:**

```
sudo sed -i 's##{path_to_shared_library}##' /etc/ld.so.preload
```



Dependencies: Run with bash!

Description: The shared library must exist on disk at specified location (#{path\_to\_shared\_library})

**Check Prereq Commands:** 

```
Q
if [ -f #{path_to_shared_library} ]; then exit 0; else exit 1; fi;
```

**Get Prereq Commands:** 

```
gcc -shared -fPIC -o #{path_to_shared_library} #{path_to_shared_library_ \Box
```

# Atomic Test #2 - Shared Library Injection via LD\_PRELOAD

This test injects a shared object library via the LD\_PRELOAD environment variable to execute. This technique was used by threat actor Rocke during the exploitation of Linux web servers. This requires the glibc package.

Upon successful execution, bash will utilize LD\_PRELOAD to load the shared object library /etc/ld.so.preload . Output will be via stdout.

Supported Platforms: Linux

auto\_generated\_guid: bc219ff7-789f-4d51-9142-ecae3397deae

#### Inputs:

Name	Description	Туре	Default Va	
path_to_shared_library_source	Path to a shared library source code	Path	PathToAtomicsFolder/T1574.00	
path_to_shared_library	Path to a shared library object	Path	/tmp/T1574006.so	

#### Attack Commands: Run with bash!

LD\_PRELOAD=#{path\_to\_shared\_library} ls

#### Dependencies: Run with bash!

Description: The shared library must exist on disk at specified location (#{path\_to\_shared\_library})

#### **Check Prereq Commands:**

if [ -f #{path\_to\_shared\_library} ]; then exit 0; else exit 1; fi;

# Get Prereq Commands:

gcc -shared -fPIC -o #{path\_to\_shared\_library} #{path\_to\_shared\_library\_ 🚨

# Atomic Test #3 - Dylib Injection via DYLD\_INSERT\_LIBRARIES

injects a dylib that opens calculator via env variable

**Supported Platforms**: macOS

**auto\_generated\_guid:** 4d66029d-7355-43fd-93a4-b63ba92ea1be

## Inputs:

Name	Description	Туре	Default Value
file_to_inject	Path of executable to be injected. Mostly works on non-apple default apps.	Path	/Applications/Firefox.app/Contents/MacOS/firefo
source_file	Path of c	Path	PathToAtomicsFolder/T1574.006/src/MacOS/T15

