

- >  T1037.001
- >  T1037.002
- >  T1037.004
- >  T1037.005
- >  T1039
- >  T1040

Disables the Microsoft Defender Firewall for the current profile. Caution if you access remotely the host where the test runs! Especially with the cleanup command which will re-enable firewall for the current profile...

Supported Platforms: Windows

auto_generated_guid: 88d05800-a5e4-407e-9b53-ece4174f197f

Attack Commands: Run with `command_prompt` !

```
netsh advfirewall set currentprofile state off
```

Cleanup Commands:

```
netsh advfirewall set currentprofile state on >nul 2>&1
```

Atomic Test #2 - Disable Microsoft Defender Firewall via Registry

Disables the Microsoft Defender Firewall for the public profile via registry Caution if you access remotely the host where the test runs! Especially with the cleanup command which will re-enable firewall for the current profile...

Supported Platforms: Windows

auto_generated_guid: afedc8c4-038c-4d82-b3e5-623a95f8a612

Attack Commands: Run with `command_prompt` !

```
reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SharedAcce
```

Cleanup Commands:

```
reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SharedAcce
```

Atomic Test #3 - Allow SMB and RDP on Microsoft Defender Firewall

Allow all SMB and RDP rules on the Microsoft Defender Firewall for all profiles. Caution if you access remotely the host where the test runs! Especially with the cleanup command which will reset the firewall and risk disabling those services...

Supported Platforms: Windows

auto_generated_guid: d9841bf8-f161-4c73-81e9-fd773a5ff8c1

Attack Commands: Run with `command_prompt` !

```
netsh advfirewall firewall set rule group="remote desktop" new enable=Ye
netsh advfirewall firewall set rule group="file and printer sharing" new
```

Cleanup Commands:

```
netsh advfirewall reset >nul 2>&1
```

Atomic Test #4 - Opening ports for proxy - HARDRAIN

This test creates a listening interface on a victim device. This tactic was used by HARDRAIN for proxying.

reference: <https://www.us-cert.gov/sites/default/files/publications/MAR-10135536-F.pdf>

Supported Platforms: Windows

auto_generated_guid: 15e57006-79dd-46df-9bf9-31bc24fb5a80

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

```
netsh advfirewall firewall add rule name="atomic testing" action=allow d
```

Cleanup Commands:

```
netsh advfirewall firewall delete rule name="atomic testing" protocol=TC
```

Atomic Test #5 - Open a local port through Windows Firewall to any profile

This test will attempt to open a local port defined by input arguments to any profile

Supported Platforms: Windows

auto_generated_guid: 9636dd6e-7599-40d2-8eee-ac16434f35ed

Inputs:

Name	Description	Type	Default Value
local_port	This is the local port you wish to test opening	Integer	3389

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

```
netsh advfirewall firewall add rule name="Open Port to Any" dir=in proto
```

Cleanup Commands:

```
netsh advfirewall firewall delete rule name="Open Port to Any" | Out-Nul
```

Atomic Test #6 - Allow Executable Through Firewall Located in Non-Standard Location

This test will attempt to allow an executable through the system firewall located in the Users directory

Supported Platforms: Windows

auto_generated_guid: 6f5822d2-d38d-4f48-9bfc-916607ff6b8c

Inputs:

Name	Description	Type	Default Value
exe_file_path	path to exe file	Path	PathToAtomicsFolder\T1562.004\bin\AtomicTest

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

```
Copy-Item #{exe_file_path} -Destination "C:\Users\${env:UserName}" -Force
netsh advfirewall firewall add rule name="Atomic Test" dir=in action=all
```

Cleanup Commands:

```
netsh advfirewall firewall delete rule name="Atomic Test" | Out-Null
Remove-Item C:\Users\${env:UserName}\AtomicTest.exe -ErrorAction Ignore
```

Atomic Test #7 - Stop/Start UFW firewall

Stop the Uncomplicated Firewall (UFW) if installed.

Supported Platforms: Linux

auto_generated_guid: fe135572-edcd-49a2-afe6-1d39521c5a9a

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

```
ufw disable
```

Cleanup Commands:

```
ufw enable
ufw status verbose
```

Dependencies: Run with sh !

Description: Check if ufw is installed on the machine.

Check Prereq Commands:

```
if [ ! -x "$(command -v ufw)" ]; then echo -e "\n***** ufw NOT installed
if echo "$(ufw status)" |grep -q "inactive"; then echo -e "\n***** ufw i
```

Get Prereq Commands:

```
echo ""
```

Atomic Test #8 - Stop/Start UFW firewall systemctl

Stop the Uncomplicated Firewall (UFW) if installed, using systemctl.

Supported Platforms: Linux

auto_generated_guid: 9fd99609-1854-4f3c-b47b-97d9a5972bd1

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

```
systemctl stop ufw
```

Cleanup Commands:

```
systemctl start ufw
systemctl status ufw
```

Dependencies: Run with **sh** !

Description: Check if systemctl and ufw is installed on the machine.

Check Prereq Commands:

```
if [ ! -x "$(command -v systemctl)" ]; then echo -e "\n***** systemctl NOT installed"
if [ ! -x "$(command -v ufw)" ]; then echo -e "\n***** ufw NOT installed"
if echo "$(ufw status)" |grep -q "inactive"; then echo -e "\n***** ufw is not enabled"
```

Get Prereq Commands:

```
echo ""
```

Atomic Test #9 - Turn off UFW logging

Turn off the Uncomplicated Firewall (UFW) logging.

Supported Platforms: Linux

auto_generated_guid: 8a95b832-2c2a-494d-9cb0-dc9dd97c8bad

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

```
ufw logging off
```

Cleanup Commands:

```
ufw logging low
ufw status verbose
```

Dependencies: Run with **sh** !

Description: Check if ufw is installed on the machine and enabled.

Check Prereq Commands:

```
if [ ! -x "$(command -v ufw)" ]; then echo -e "\n***** ufw NOT installed"
if echo "$(ufw status)" |grep -q "inactive"; then echo -e "\n***** ufw is not enabled"
```

Get Prereq Commands:

```
echo ""
```

Atomic Test #10 - Add and delete UFW firewall rules

Add and delete a rule on the Uncomplicated Firewall (UFW) if installed and enabled.

Supported Platforms: Linux

auto_generated_guid: b2563a4e-c4b8-429c-8d47-d5bcb227ba7a

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

```
ufw prepend deny from 1.2.3.4
ufw status numbered
```

Cleanup Commands:

```
{ echo y; echo response; } | ufw delete 1
ufw status numbered
```

Dependencies: Run with **sh** !

Description: Check if ufw is installed on the machine and enabled.

Check Prereq Commands:

```
if [ ! -x "$(command -v ufw)" ]; then echo -e "\n***** ufw NOT installed
if echo "$(ufw status)" |grep -q "inactive"; then echo -e "\n***** ufw i
```

Get Prereq Commands:

```
echo ""
```

Atomic Test #11 - Edit UFW firewall user.rules file

Edit the Uncomplicated Firewall (UFW) rules file /etc/ufw/user.rules.

Supported Platforms: Linux

auto_generated_guid: beaf815a-c883-4194-97e9-fdbbb2bbdd7c

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

```
echo "# THIS IS A COMMENT" >> /etc/ufw/user.rules
grep "# THIS IS A COMMENT" /etc/ufw/user.rules
```

Cleanup Commands:

```
sed -i 's/# THIS IS A COMMENT//g' /etc/ufw/user.rules
```

Dependencies: Run with **sh** !

Description: Check if /etc/ufw/user.rules exists.

Check Prereq Commands:

```
if [ ! -f "/etc/ufw/user.rules" ]; then echo -e "\n***** ufw NOT install
```

Get Prereq Commands:

```
echo ""
```



Atomic Test #12 - Edit UFW firewall ufw.conf file

Edit the Uncomplicated Firewall (UFW) configuration file /etc/ufw/ufw.conf which controls if the firewall starts on boot and its logging level.

Supported Platforms: Linux

auto_generated_guid: c1d8c4eb-88da-4927-ae97-c7c25893803b

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

```
echo "# THIS IS A COMMENT" >> /etc/ufw/ufw.conf
grep "# THIS IS A COMMENT" /etc/ufw/ufw.conf
```



Cleanup Commands:

```
sed -i 's/# THIS IS A COMMENT//g' /etc/ufw/ufw.conf
cat /etc/ufw/ufw.conf
```



Dependencies: Run with **sh** !

Description: Check if /etc/ufw/ufw.conf exists.

Check Prereq Commands:

```
if [ ! -f "/etc/ufw/ufw.conf" ]; then echo -e "\n***** ufw NOT installed
```



Get Prereq Commands:

```
echo ""
```



Atomic Test #13 - Edit UFW firewall sysctl.conf file

Edit the Uncomplicated Firewall (UFW) configuration file for setting network variables /etc/ufw/sysctl.conf.

Supported Platforms: Linux

auto_generated_guid: c4ae0701-88d3-4cd8-8bce-4801ed9f97e4

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

```
echo "# THIS IS A COMMENT" >> /etc/ufw/sysctl.conf
grep "# THIS IS A COMMENT" /etc/ufw/sysctl.conf
```



Cleanup Commands:

```
sed -i 's/# THIS IS A COMMENT//g' /etc/ufw/sysctl.conf
cat /etc/ufw/sysctl.conf
```



Dependencies: Run with **sh** !

Description: Check if /etc/ufw/sysctl.conf exists.

Check Prereq Commands:

```
if [ ! -f "/etc/ufw/sysctl.conf" ]; then echo -e "\n***** ufw NOT instal
```

Get Prereq Commands:

```
echo ""
```

Atomic Test #14 - Edit UFW firewall main configuration file

Edit the Uncomplicated Firewall (UFW) main configuration file for setting default policies /etc/default/ufw.

Supported Platforms: Linux

auto_generated_guid: 7b697ece-8270-46b5-bbc7-6b9e27081831

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

```
echo "# THIS IS A COMMENT" >> /etc/default/ufw
grep "# THIS IS A COMMENT" /etc/default/ufw
```

Cleanup Commands:

```
sed -i 's/# THIS IS A COMMENT//g' /etc/default/ufw
```

Dependencies: Run with **sh** !

Description: Check if /etc/default/ufw exists.

Check Prereq Commands:

```
if [ ! -f "/etc/default/ufw" ]; then echo -e "\n***** ufw NOT installed
```

Get Prereq Commands:

```
echo ""
```

Atomic Test #15 - Tail the UFW firewall log file

Print the last 10 lines of the Uncomplicated Firewall (UFW) log file /var/log/ufw.log.

Supported Platforms: Linux

auto_generated_guid: 419cca0c-fa52-4572-b0d7-bc7c6f388a27

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

```
tail /var/log/ufw.log
```

Cleanup Commands:

Dependencies: Run with `sh` !

Description: Check if /var/log/ufw.log exists.

Check Prereq Commands:

```
if [ ! -f "/var/log/ufw.log" ]; then echo -e "\n***** ufw NOT logging **
```

Get Prereq Commands:

```
echo ""
```