National College of Ireland

Configuration Manual

MSc Internship
Cybersecurity

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MSc Project Submission Sheet

School of Computing

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Lecturer:	Michael Pantridge
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Configuration Manual

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1 Introduction

This document serves the purpose of providing the user an overview of how the tools and technologies of this project can fully be utilised. The system specifications required to replicate the outputs of this result is mentioned in the section below. Additionally, there is not any external requirements to execute the executable files, however, for the compilation, MSVC compiler was used and the specifications of the version is mentioned in the appropriate section. Other compilers such as the MinGW compiler can also be utilised for compiling the source code but the outcome or the output has not been personally verified by me. It is also important for the user to understand that this project is only replicable in an x86 or x64 Windows environment and not replicable in any other operating system.

The aim of this project is to craft a network based RunPE application which consists of two parts – the server and the client. The server is responsible for sending the .text section of the stripped binary file and the client is responsible for stitching the stripped binary with the executable code present in the .text section during the execution based on the .text section data sent by the server that the client connects to.

2 System Specification

This project is completely replicable in a local machine, however, the same can also be replicated over two or more local machines connected over a LAN or two or more machines connected over the internet. In the demonstration, the local approach with one machine and the VMWare approach with two machines have been shown. The specifications mentioned here are required by the executable binary and not the machine specifications.

Executable Binary Requirements:
Operating System: Windows x86/x64 (Windows XP+)
RAM: Depends on the resulting binary that is to be executed using RunPE.
Network Connection: Valid internet connection/connection to server on LAN/virtual connection/loopback depending on requirements for testing.

Machine 1 (Host Machine):
The specifications mentioned here are those of the host machine on which the binary was crafted, debugged, and executed.
Operating System: Windows 10 x64
RAM: 12GB
Network Connections: Both internet connectivity and loopback connectivity are available.

Machine 2 (VM x86):
Operating System: Windows 10 x86
RAM Allocated: 4GB

Hard Disk Space: 60GB
Processors Allocated: 2
Network Adapter 1: VMnetX (Internal VMWare Network)
Purpose: Can act as both the server and the client for the network RunPE application. Acted as Server for video demonstration.

Machine 3 (VM x64):
Operating System: Windows 10 x64
RAM Allocated: 4GB
Hard Disk Space: 60GB
Processors Allocated: 2
Network Adapter 1: VMnetX (Internal VMWare Network)
Purpose: Can act as both the server and the client for the network RunPE application. Acted as Client for video demonstration.

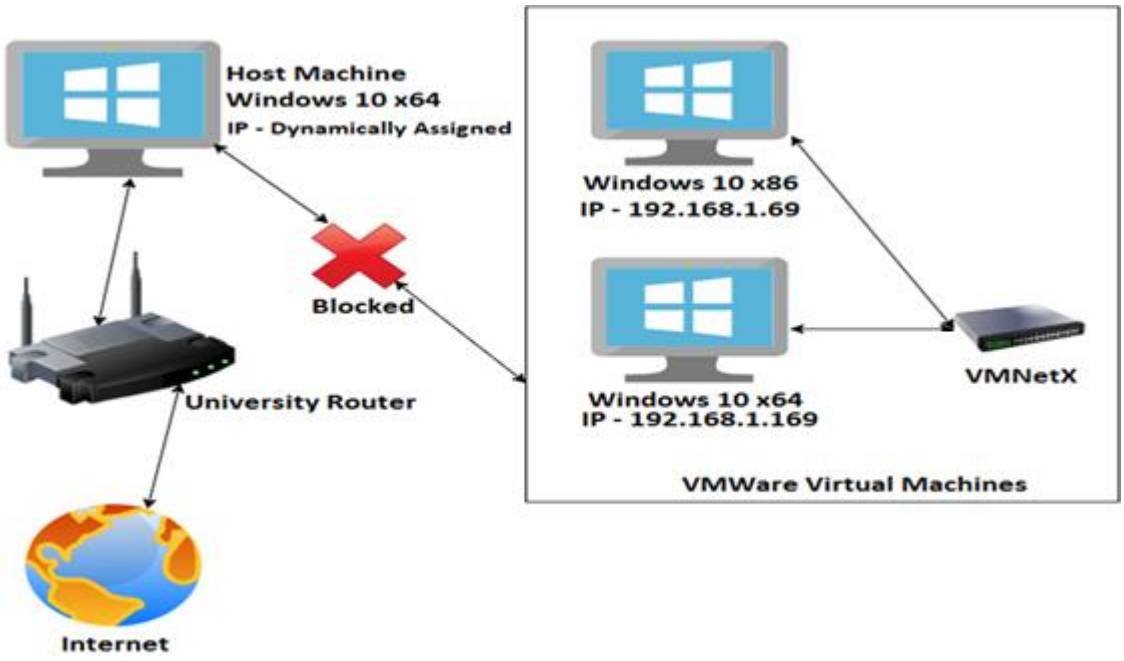

Figure 1: Network Diagram

3 Tools and Technologies

- Microsoft Visual Studio 2019 Community Edition.
- Microsoft Visual C++ Runtimes 2019 (Installed along with Visual Studio. Needed if Visual Studio is not installed, for the execution of the binary.)
- MinGW compiler might also work for building the project but has not been tested.

NOTE – This project will only build and execute on a Windows Environment.

4 Implementation

Step 1 – To build the project, the source code for the **2FileCreator** must be copied exactly as it is into an empty C source file in Visual Studio. The source code for the **RunPE Client.exe** is embedded inside the source code of the 2FileCreatorServer.exe code mentioned below.

Source Code:

```
#include<stdio.h>

#pragma warning(disable: 4996)
#pragma comment(lib, "ws2_32.lib")

int parsePEStructure(char* PEBuffer, int bufferSize, char* outfile, char*
encryptionKey);

struct DOSHeader {
	char e_magic[2];
	unsigned short e_cblp;
	unsigned short e_cp;
	unsigned short e_crlc;
	unsigned short e_cparhdr;
	unsigned short e_minalloc;
	unsigned short e_maxalloc;
	unsigned short e_ss;
	unsigned short e_sp;
	unsigned short e_csum;
	unsigned short e_ip;
	unsigned short e_cs;
	unsigned short e_lfarlc;
	unsigned short e_ovno;
	char e_res1[8];
	unsigned short e_oemid;
	unsigned short e_oeminfo;
	char e_res2[20];
	unsigned long e_lfanew;
};

struct DOSStub {
	char dos_stub[64];
};

struct ImageFileHeader {
	unsigned short machine;
	unsigned short numberofsections;
	unsigned long timedatestamp;
	unsigned long pointertosymboltable;
```

```
        unsigned long numberofsymbols;
        unsigned short sizeofoptionalheader;
        unsigned short characteristics;
};

struct OptionalHeader {
        unsigned short magic;
        unsigned char majorlinkerversion;
        unsigned char minorlinkerversion;
        unsigned long sizeofcode;
        unsigned long sizeofinitializeddata;
        unsigned long sizeofuninitializeddata;
        unsigned long addressofentrypoint;
        unsigned long baseofcode;
        unsigned long baseofdata;
        unsigned long imagebase;
        unsigned long sectionalignment;
        unsigned long filealignment;
        unsigned short majoroperatingsystemversion;
        unsigned short minoroperatingsystemversion;
        unsigned short majorimageversion;
        unsigned short minorimageversion;
        unsigned short majorsubsystemversion;
        unsigned short minorsubsystemversion;
        unsigned long win32versionvalue;
        unsigned long sizeofimage;
        unsigned long sizeofheaders;
        unsigned long checksum;
        unsigned short subsystem;
        unsigned short dllcharacteristics;
        unsigned long sizeofstackreserve;
        unsigned long sizeofstackcommit;
        unsigned long sizeofheapreserve;
        unsigned long sizeofheapcommit;
        unsigned long loaderflags;
        unsigned long numberofrvaandsizes;
};

struct PEHeader {
        char signature[4];
        struct ImageFileHeader IFHeader;
        struct OptionalHeader OHeader;
};

struct DataDirectories {
        unsigned long virtualaddress;
```

```
	unsigned long size;
};

struct SectionHeader {
	char name[8];
	unsigned long virtualSize;
	unsigned long virtualAddress;
	unsigned long sizeOfRawData;
	unsigned long pointerToRawData;
	unsigned long pointerToRelocations;
	unsigned long pointerToLineNumbers;
	unsigned short numberOfRelocations;
	unsigned short numberOfLineNumbers;
	unsigned long characteristics;
};

int main(int argc, char **argv) {

	if (argc != 6) {
		printf("Number of Arguments Mismatch. Usage 2FileCreatorServer.exe [InputFile.exe] [OutFile.exe] [Server IP Address] [Server Port] [Encryption Key]\n");
			return 1;
	}

	FILE* f;
	fopen_s(&f, argv[1], "rb");

	if (f != 0x0) {

		printf("Reading & Printing Contents (InputFile.exe).\n");

		int bufferSize = 0;
		int hexData;

		if (f != 0)
			while ((hexData = fgetc(f)) != EOF) {
				if (bufferSize % 16 != 0) {
					printf("%0.2X ", (hexData & 0xFF));
				}
				else if ((bufferSize % 16 == 0) && (bufferSize != 0)) {
					printf("\n\t     ");
					printf("%0.2X ", (hexData & 0xFF));
				}
				else {
					printf("\t     ");
					printf("%0.2X ", (hexData & 0xFF));
```

```
                        }
                        bufferSize++;
                }

        printf("Allocating Buffer & Copying Contents.\n");

        char* hexBuffer = (char*)calloc(bufferSize, sizeof(char));
        char* hexBufferStart = hexBuffer;

        if (f != 0 && (bufferSize <= bufferSize * 1)) {
                rewind(f);
                fread_s(hexBuffer, bufferSize, 1, bufferSize, f);
                fclose(f);
        }


        printf("Reading & Printing Contents (Buffer).\n");
        printf("   -- -- -- -- -- -- -- -- HEX DATA -- -- -- -- -- -- -- --\t");
        printf("-- -- -- -- ASCII DATA -- -- -- --\n");
        for (hexBuffer = hexBufferStart; hexBuffer < (hexBufferStart +
bufferSize); hexBuffer++) {
                hexData = *hexBuffer;
                if ((hexBuffer - hexBufferStart) % 16 != 0) {
                        int padding = (hexBuffer - hexBufferStart) % 16;
                        printf("%0.2X ", (hexData & 0xFF));
                        if ((hexBuffer - hexBufferStart) % 16 == 15) {
                                printf("          \t");
                                for (int i = 15; i >= 0; i--) {
                                        (*(hexBuffer - i) & 0xFF) > 0x20 &&
(*(hexBuffer - i) & 0xFF) < 0x7E ? printf("%c", (*(hexBuffer - i) & 0xFF)) :
printf(".");
                                }
                        }
                }
                else if (((hexBuffer - hexBufferStart) % 16 == 0) && ((hexBuffer -
hexBufferStart) != 0)) {
                        printf("\n\t");
                        printf("%0.2X ", (hexData & 0xFF));
                }
                else {
                        printf("\t");
                        printf("%0.2X ", (hexData & 0xFF));
                }
        }

        printf("\nParsing PE Structure.\n");
```

```
        hexBuffer = hexBufferStart;
        int retVal = 0;
        retVal = parsePEStructure(hexBuffer, bufferSize, argv[2], argv[5]);

        hexBuffer = hexBufferStart;
        free(hexBuffer);
}
else {
        printf("Error Opening File.\n");
        return 1;
}

WSADATA winsockData;
int iWSAStartup;
int iWSACleanup;

SOCKET TCPServerSocket;
int iCloseSocket;

struct sockaddr_in TCPServerAdd;
struct sockaddr_in TCPClientAdd;
int iTCPClientAdd = sizeof(TCPClientAdd);

int iBind;
int iListen;

SOCKET sAcceptSocket;

int iSend;
int iSenderBuffer = 0;

fopen_s(&f, ".textSection.text", "rb");

if (f != 0)
        while (fgetc(f) != EOF) {
                iSenderBuffer++;
        }

char* SenderBuffer = (char*)calloc(iSenderBuffer, sizeof(char));

if (f != 0 && (iSenderBuffer <= iSenderBuffer * 1)) {
        rewind(f);
        fread_s(SenderBuffer, iSenderBuffer, 1, iSenderBuffer, f);
        fclose(f);
}
```

```
	int iRecv;
	char RecvBuffer[512];
	int iRecvBuffer = sizeof(RecvBuffer);

	TCPServerAdd.sin_family = AF_INET;
	TCPServerAdd.sin_addr.s_addr = inet_addr(argv[3]);
	int port = atoi(argv[4]);
	TCPServerAdd.sin_port = htons(port);

	iWSAStartup = WSAStartup(MAKEWORD(2, 2), &winsockData);

	if (iWSAStartup != 0) {
		printf("Server Creation Failed.\n");
		free(SenderBuffer);
		WSACleanup();
		return -1;
	}
	else {
		printf("Server Created.\n");
	}

	TCPServerSocket = socket(AF_INET, SOCK_STREAM, IPPROTO_TCP);

	if (TCPServerSocket == INVALID_SOCKET) {
		printf("TCP Server Socket Creation Failed.\n");
		free(SenderBuffer);
		WSACleanup();
		return -2;
	}
	else {
		printf("TCP Server Socket Created At IP : %s Port %s\n", argv[3],
argv[4]);
	}

	iBind = bind(TCPServerSocket, (SOCKADDR*)&TCPServerAdd, sizeof(TCPServerAdd));

	if (iBind == SOCKET_ERROR) {
		printf("Binding Failed.\n");
		free(SenderBuffer);
		WSACleanup();
		return -3;
	}
	else {
		printf("Binding Successful.\n");
	}
```

```
	iListen = listen(TCPServerSocket, 1);

	if (iBind == SOCKET_ERROR) {
		printf("Failed to Listen.\n");
		free(SenderBuffer);
		WSACleanup();
		return -4;
	}
	else {
		printf("Listening in Progress.\n");
	}

	sAcceptSocket = accept(TCPServerSocket, (SOCKADDR*)&TCPClientAdd,
&iTCPClientAdd);

	if (sAcceptSocket == INVALID_SOCKET) {
		printf("Error Accepting Client.\n");
		free(SenderBuffer);
		WSACleanup();
		return -5;
	}
	else {
		printf("Accepted Client.\n");
	}


	iSend = send(sAcceptSocket, SenderBuffer, iSenderBuffer, 0);


	if (iSend == SOCKET_ERROR) {
		printf("Code Sending Unsuccessful.\n");
		free(SenderBuffer);
		WSACleanup();
		return -5;
	}
	else {
		printf("Code Sending Successful.\n");
	}

	iRecv = recv(sAcceptSocket, RecvBuffer, iRecvBuffer, 0);

	if (iRecv == SOCKET_ERROR) {
		printf("Acknowledgement Not Received.\n");
		free(SenderBuffer);
		WSACleanup();
		return -6;
```

```
	}
	else {
		printf("Acknowledgement Recevied.\n");
	}

	iCloseSocket = closesocket(TCPServerSocket);

	if (iCloseSocket == SOCKET_ERROR) {
		printf("Error Closing Socket.\n");
		free(SenderBuffer);
		WSACleanup();
		return -6;
	}
	else {
		printf("Socket Closed Successfully.\n");
	}

	iWSACleanup = WSACleanup();

	return 0;

}

int parsePEStructure(char* PEBuffer, int bufferSize, char* outFile, char* encryptionKey)
{

	struct DOSHeader* DOS;
	struct DOSStub* STUB;
	struct RICHHeader* RICH;
	struct RICH2PETransition* RICH2PE;
	struct PEHeader* PEH;
	struct DataDirectories* DATADIR[16];
	struct SectionHeader* SEh[4];

	char* PEBufferStart = PEBuffer;

	DOS = (struct DOSHeader*)(PEBuffer);
	printf("PE Buffer Location - %p\n", PEBuffer);
	printf("DOS Header Size - %d\n", sizeof(struct DOSHeader));
	PEBuffer = PEBuffer + sizeof(struct DOSHeader);
	printf("PE Buffer Value After Adding DOS Header Size - %p\n", PEBuffer);

	STUB = (struct DOSStub*)(PEBuffer);
	printf("PE Buffer Location - %p\n", PEBuffer);
	printf("DOS Stub Size - %d\n", sizeof(struct DOSStub));
	PEBuffer = PEBuffer + sizeof(struct DOSStub);
```

```
	printf("PE Buffer Value After Adding DOS Stub Size - %p\n", PEBuffer);

	PEBuffer = PEBuffer + DOS->e_lfanew - sizeof(struct DOSStub) - sizeof(struct
DOSHeader);

	PEH = (struct PEHeader*)(PEBuffer);
	printf("PE Buffer Location - %p\n", PEBuffer);
	printf("PE Header Size - %d\n", sizeof(struct PEHeader));
	PEBuffer = PEBuffer + sizeof(struct PEHeader);
	printf("PE Buffer Value After Adding PE Header Size - %p\n", PEBuffer);

	for (int i = 0; i < PEH->OHeader.numberofrvaandsizes; i++) {
		DATADIR[i] = (struct DataDirectories*)(PEBuffer);
		printf("PE Buffer Location - %p\n", PEBuffer);
		printf("Data Directory %d Size - %d\n", i, sizeof(struct
DataDirectories));
		PEBuffer = PEBuffer + sizeof(struct DataDirectories);
		printf("PE Buffer Value After Adding Data Directory %d Size - %p\n", i,
PEBuffer);
	}

	if (PEH->OHeader.numberofrvaandsizes < 16) {
		for (int i = PEH->OHeader.numberofrvaandsizes; i < 16; i++) {
			DATADIR[i]->virtualaddress = 0;
			DATADIR[i]->size = 0;
			printf("PE Buffer Location - %p\n", PEBuffer);
			printf("Data Directory %d Size - %d\n", i, sizeof(struct
DataDirectories));
			PEBuffer = PEBuffer + sizeof(struct DataDirectories);
			printf("PE Buffer Value After Adding Data Directory %d Size -
%p\n", i, PEBuffer);
		}
	}

	SEh[0] = (struct SectionHeader*)(PEBuffer);
	printf("PE Buffer Location - %p\n", PEBuffer);
	printf("PE Section Header Size - %d\n", sizeof(struct SectionHeader));
	PEBuffer = PEBuffer + sizeof(struct SectionHeader);
	printf("PE Buffer Value After Adding Section Header Size - %p\n", PEBuffer);

	SEh[1] = (struct SectionHeader*)(PEBuffer);
	printf("PE Buffer Location - %p\n", PEBuffer);
	printf("PE Section Header Size - %d\n", sizeof(struct SectionHeader));
	PEBuffer = PEBuffer + sizeof(struct SectionHeader);
	printf("PE Buffer Value After Adding Section Header Size - %p\n", PEBuffer);
```

```
	SEh[2] = (struct SectionHeader*)(PEBuffer);
	printf("PE Buffer Location - %p\n", PEBuffer);
	printf("PE Section Header Size - %d\n", sizeof(struct SectionHeader));
	PEBuffer = PEBuffer + sizeof(struct SectionHeader);
	printf("PE Buffer Value After Adding Section Header Size - %p\n", PEBuffer);

	char* _text = PEBufferStart + SEh[0]->pointerToRawData;
	char* _rdata = PEBufferStart + SEh[1]->pointerToRawData;
	char* _data = PEBufferStart + SEh[2]->pointerToRawData;

	FILE* f;
	fopen_s(&f, outFile, "wb");

	if (f != 0x0) {

		int i = 0;
		fwrite(DOS, sizeof(struct DOSHeader), 1, f);
		i = i + sizeof(struct DOSHeader);
		fwrite(STUB, sizeof(struct DOSStub), 1, f);
		i = i + sizeof(struct DOSStub);
		int j = i + DOS->e_lfanew - sizeof(struct DOSHeader) - sizeof(struct
DOSStub);
		while (i < j) {
			char pad = 0x00;
			fwrite(&pad, sizeof(char), 1, f);
			i++;
		}

		fwrite(PEH, sizeof(struct PEHeader), 1, f);
		i = i + sizeof(struct PEHeader);
		fwrite(DATADIR[0], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[1], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[2], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[3], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[4], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[5], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[6], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[7], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[8], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[9], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[10], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[11], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[12], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[13], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[14], sizeof(struct DataDirectories), 1, f);
		fwrite(DATADIR[15], sizeof(struct DataDirectories), 1, f);
```

```
		i = i + (sizeof(struct DataDirectories) * 16);

		SEh[0]->numberOfRelocations = 0x0;
		SEh[0]->pointerToRelocations = 0x0;
		SEh[0]->pointerToLineNumbers = 0x0;
		SEh[1]->numberOfLineNumbers = 0x0;
		SEh[1]->numberOfRelocations = 0x0;
		SEh[1]->pointerToRelocations = 0x0;
		SEh[1]->pointerToLineNumbers = 0x0;
		SEh[1]->numberOfLineNumbers = 0x0;
		SEh[2]->numberOfRelocations = 0x0;
		SEh[2]->pointerToRelocations = 0x0;
		SEh[2]->pointerToLineNumbers = 0x0;
		SEh[2]->numberOfLineNumbers = 0x0;

		fwrite(SEh[0], sizeof(struct SectionHeader), 1, f);
		fwrite(SEh[1], sizeof(struct SectionHeader), 1, f);
		fwrite(SEh[2], sizeof(struct SectionHeader), 1, f);

		char* otherSections = PEBuffer;
		int numberOfSectionsLeft = PEH->IFHeader.numberofsections - 3;

		while (numberOfSectionsLeft > 0) {
			SEh[3] = (struct SectionHeader*)(PEBuffer);
			PEBuffer = PEBuffer + sizeof(struct SectionHeader);
			SEh[3]->numberOfRelocations = 0x0;
			SEh[3]->pointerToRelocations = 0x0;
			SEh[3]->pointerToLineNumbers = 0x0;
			SEh[3]->numberOfLineNumbers = 0x0;
			fwrite(SEh[3], sizeof(struct SectionHeader), 1, f);
			numberOfSectionsLeft--;
		}

		PEBuffer = otherSections;

		i = i + (sizeof(struct SectionHeader) * (PEH-
>IFHeader.numberofsections));

		char pad = 0x00;
		while (i < SEh[0]->pointerToRawData) {
			fwrite(&pad, sizeof(char), 1, f);
			i++;
		}

		pad = 0x90;
		i = 0;
```

```
		while (i < SEh[0]->sizeOfRawData) {
			fwrite(&pad, sizeof(char), 1, f);
			i++;
		}
		fwrite(_rdata, sizeof(char), SEh[1]->sizeOfRawData, f);
		fwrite(_data, sizeof(char), SEh[2]->sizeOfRawData, f);

		numberOfSectionsLeft = PEH->IFHeader.numberofsections - 3;

		while (numberOfSectionsLeft > 1) {
			SEh[3] = (struct SectionHeader*)(PEBuffer);
			PEBuffer = PEBuffer + sizeof(struct SectionHeader);
			char* _ndata = PEBufferStart + SEh[3]->pointerToRawData;
			fwrite(_ndata, sizeof(char), SEh[3]->sizeOfRawData, f);
			numberOfSectionsLeft--;
		}

		SEh[3] = (struct SectionHeader*)(PEBuffer);
		PEBuffer = PEBuffer + sizeof(struct SectionHeader);

		pad = 0x0;
		i = 0;
		while (i < SEh[3]->sizeOfRawData) {
			fwrite(&pad, sizeof(char), 1, f);
			i++;
		}

		fclose(f);

	}

	const char data[12288] =
	{
		0x4d, 0x5a, 0x90, 0x00, 0x03, 0x00, 0x00, 0x00, 0x04, 0x00, 0x00, 0x00,
0xff, 0xff, 0x00, 0x00,
		0xb8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
		0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
		0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0xf8, 0x00, 0x00, 0x00,
		0x0e, 0x1f, 0xba, 0x0e, 0x00, 0xb4, 0x09, 0xcd, 0x21, 0xb8, 0x01, 0x4c,
0xcd, 0x21, 0x54, 0x68,
		0x69, 0x73, 0x20, 0x70, 0x72, 0x6f, 0x67, 0x72, 0x61, 0x6d, 0x20, 0x63,
0x61, 0x6e, 0x6e, 0x6f,
```

```
                0x74, 0x20, 0x62, 0x65, 0x20, 0x72, 0x75, 0x6e, 0x20, 0x69, 0x6e, 0x20,
0x44, 0x4f, 0x53, 0x20,
                0x6d, 0x6f, 0x64, 0x65, 0x2e, 0x0d, 0x0d, 0x0a, 0x24, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x51, 0x4f, 0xc4, 0xf7, 0x15, 0x2e, 0xaa, 0xa4, 0x15, 0x2e, 0xaa, 0xa4,
0x15, 0x2e, 0xaa, 0xa4,
                0x1c, 0x56, 0x39, 0xa4, 0x19, 0x2e, 0xaa, 0xa4, 0xc0, 0x43, 0xab, 0xa5,
0x17, 0x2e, 0xaa, 0xa4,
                0xc0, 0x43, 0xaf, 0xa5, 0x06, 0x2e, 0xaa, 0xa4, 0xc0, 0x43, 0xae, 0xa5,
0x19, 0x2e, 0xaa, 0xa4,
                0xc0, 0x43, 0xa9, 0xa5, 0x17, 0x2e, 0xaa, 0xa4, 0x4e, 0x46, 0xab, 0xa5,
0x10, 0x2e, 0xaa, 0xa4,
                0x15, 0x2e, 0xab, 0xa4, 0x5d, 0x2e, 0xaa, 0xa4, 0x89, 0x40, 0xa2, 0xa5,
0x14, 0x2e, 0xaa, 0xa4,
                0x89, 0x40, 0x55, 0xa4, 0x14, 0x2e, 0xaa, 0xa4, 0x89, 0x40, 0xa8, 0xa5,
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0x00, 0x00, 0x00, 0x00,
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0x4c, 0x01, 0x05, 0x00,
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0xe0, 0x00, 0x02, 0x01,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x40, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0xc8, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0xd8, 0x01, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x10, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x74, 0x61, 0x00, 0x00,
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0x00, 0x1a, 0x00, 0x00,
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0x40, 0x00, 0x00, 0x40,
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0x00, 0x40, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x63, 0x00, 0x00, 0x00,
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0x00, 0x2c, 0x00, 0x00,
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0x40, 0x00, 0x00, 0x40,
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0x00, 0x60, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
```

```
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0x00, 0x33, 0xf6, 0x50,
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0x1f, 0x44, 0x00, 0x00,
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0x2b, 0xc1, 0x8d, 0x3c,
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0x6a, 0x40, 0x8d, 0x84,
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0xb8, 0x05, 0x00, 0x00,
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0x1c, 0x39, 0x45, 0x08,
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0x00, 0x00, 0x00, 0x00,
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0x33, 0xc0, 0x2b, 0xca,
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0xf7, 0xd9, 0x0b, 0xc8,
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0x8d, 0x51, 0x01, 0x90,
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0xc1, 0x01, 0x6a, 0x01,
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0x75, 0xf9, 0x2b, 0xca,
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0x40, 0x00, 0xe8, 0xed,
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0x10, 0x2b, 0x00, 0x00,
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0x44, 0x24, 0x18, 0xff,
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0x00, 0xe8, 0x1e, 0xfb,
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0x24, 0x10, 0x2b, 0x00,
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0x8d, 0x51, 0x01, 0x90,
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0x70, 0xc7, 0x84, 0x24,
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0xa4, 0x00, 0x00, 0x00,
                0x0f, 0x57, 0xc0, 0x50, 0x6a, 0x00, 0x6a, 0x00, 0x6a, 0x14, 0x6a, 0x00,
0x6a, 0x00, 0x6a, 0x00,
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0xa8, 0x00, 0x00, 0x00,
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0x34, 0x6a, 0x40, 0xff,
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0xc0, 0x5f, 0x5e, 0x5b,
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0x0d, 0x04, 0x40, 0x40,
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0x0b, 0x00, 0x00, 0xe8,
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0xdb, 0xe2, 0xe8, 0x69,
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0x00, 0xe8, 0x18, 0x06,
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0xe8, 0x23, 0x06, 0x00,
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0xe8, 0x5d, 0x0b, 0x00,
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0x33, 0xc0, 0xc3, 0xe8,
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0x00, 0x6a, 0x01, 0xe8,
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0x45, 0xdc, 0xa1, 0x3c,
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0x00, 0x00, 0x68, 0x3c,
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0x00, 0x59, 0x59, 0xc7,
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0xd9, 0x88, 0x5d, 0xe7,
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0x00, 0x00, 0x59, 0xe8,
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0x30, 0xe8, 0x0e, 0x0a,
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                0xe8, 0x2a, 0x06, 0x00, 0x00, 0x84, 0xc0, 0x74, 0x6b, 0x84, 0xdb, 0x75,
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0x8b, 0x65, 0xe8, 0xe8,
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0xe0, 0x8b, 0x4d, 0xf0,
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0x41, 0x40, 0x00, 0xa3,
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0x00, 0xc0, 0xc7, 0x05,
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0x40, 0x00, 0x89, 0x4c,
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0x5d, 0xc3, 0x8b, 0xc2,
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0x64, 0xa1, 0x18, 0x00,
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0x3b, 0xd0, 0x74, 0x10,
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0x00, 0x00, 0x84, 0xc0,
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0xc0, 0x75, 0x0a, 0x6a,
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0xc3, 0x56, 0x8b, 0x75,
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0x07, 0x00, 0x00, 0x85,
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0xe8, 0x9f, 0x07, 0x00,
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0x90, 0x07, 0x00, 0x00,
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0x6a, 0x05, 0xe8, 0x2d,
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0x00, 0x00, 0x40, 0x00,
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0x00, 0x40, 0x00, 0x75,
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0x8b, 0x45, 0xf0, 0x8d,
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0x0d, 0x11, 0x47, 0x00,
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0xf7, 0xd1, 0x5f, 0x89,
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0x00, 0x6a, 0x00, 0xe8,
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0xec, 0x83, 0x25, 0x74,
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0xf0, 0xa1, 0x10, 0x40,
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0x00, 0x00, 0x00, 0xa3,
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0x93, 0x00, 0x00, 0x00,
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0x00, 0xa3, 0x10, 0x40,
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0x00, 0x00, 0x00, 0x10,
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0xf0, 0x8b, 0x45, 0xec,
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0xa1, 0x10, 0x40, 0x40,
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0x00, 0x00, 0xa3, 0x10,
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0x05, 0x74, 0x43, 0x40,
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0x00, 0x8b, 0x4d, 0xf0,
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0x40, 0x89, 0x35, 0x74,
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0x08, 0xb5, 0x02, 0x00,
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0x3f, 0xa8, 0x81, 0x74,
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0xc4, 0x3d, 0x00, 0x00,
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0xf6, 0x3d, 0x00, 0x00,
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0xb0, 0x3e, 0x00, 0x00,
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0x0b, 0x00, 0x00, 0x80,
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0x10, 0x00, 0x00, 0x80,
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0xa8, 0x3a, 0x00, 0x00,
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0xc6, 0x3c, 0x00, 0x00,
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0xfc, 0x3a, 0x00, 0x00,
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0xc6, 0x3a, 0x00, 0x00,
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0x65, 0x6e, 0x74, 0x2e,
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0x6f, 0x77, 0x6c, 0x65,
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0x00, 0x00, 0x00, 0x00,
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0x14, 0x00, 0x00, 0x00,
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0x38, 0x9b, 0x35, 0x5f,
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0x04, 0x35, 0x00, 0x00,
                0x04, 0x1f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x38, 0x9b, 0x35, 0x5f,
0x00, 0x00, 0x00, 0x00,
                0x0e, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x04, 0x40, 0x40, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x47, 0xaf, 0x36, 0x42,
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0x43, 0x3a, 0x5c, 0x55,
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0x6f, 0x75, 0x72, 0x63,
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0x45, 0x20, 0x43, 0x6c,
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0x5c, 0x52, 0x75, 0x6e,
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0x62, 0x00, 0x00, 0x00,
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0x01, 0x00, 0x00, 0x00,
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0x93, 0x14, 0x00, 0x00,
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0x00, 0x30, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x66, 0x67, 0x00, 0x00,
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0x24, 0x58, 0x43, 0x41,
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0x2e, 0x43, 0x52, 0x54,
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0x04, 0x00, 0x00, 0x00,
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0x40, 0x31, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x24, 0x58, 0x49, 0x41,
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0x2e, 0x43, 0x52, 0x54,
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0x04, 0x00, 0x00, 0x00,
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0x50, 0x31, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x24, 0x58, 0x50, 0x5a,
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0x2e, 0x43, 0x52, 0x54,
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0x04, 0x00, 0x00, 0x00,
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0x60, 0x31, 0x00, 0x00,
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0x90, 0x34, 0x00, 0x00,
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0x78, 0x64, 0x61, 0x74,
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0x2e, 0x72, 0x64, 0x61,
                0x74, 0x61, 0x24, 0x7a, 0x7a, 0x7a, 0x64, 0x62, 0x67, 0x00, 0x00, 0x00,
0x58, 0x37, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x24, 0x49, 0x5a, 0x5a,
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0x2e, 0x72, 0x74, 0x63,
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0x04, 0x00, 0x00, 0x00,
                0x2e, 0x72, 0x74, 0x63, 0x24, 0x54, 0x5a, 0x5a, 0x00, 0x00, 0x00, 0x00,
0x68, 0x37, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x74, 0x61, 0x24, 0x32,
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0x2e, 0x69, 0x64, 0x61,
                0x74, 0x61, 0x24, 0x33, 0x00, 0x00, 0x00, 0x00, 0x6c, 0x38, 0x00, 0x00,
0x30, 0x01, 0x00, 0x00,
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0x9c, 0x39, 0x00, 0x00,
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0x61, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x63, 0x24, 0x30, 0x31,
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0x2e, 0x72, 0x73, 0x72,
                0x63, 0x24, 0x30, 0x32, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0xb8, 0x19, 0x40, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0xd9, 0x1c, 0x40, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0xb8, 0x38, 0x00, 0x00,
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0x4c, 0x30, 0x00, 0x00,
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0xe2, 0x3c, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x24, 0x39, 0x00, 0x00,
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0xb8, 0x30, 0x00, 0x00,
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0x66, 0x3d, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x9c, 0x39, 0x00, 0x00,
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0xe2, 0x39, 0x00, 0x00,
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0x9c, 0x3e, 0x00, 0x00,
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0xe2, 0x3d, 0x00, 0x00,
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0x72, 0x3a, 0x00, 0x00,
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0x00, 0x00, 0x00, 0x00,
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0x73, 0x00, 0x00, 0x80,
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0x74, 0x00, 0x00, 0x80,
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0x18, 0x3b, 0x00, 0x00,
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0x60, 0x3c, 0x00, 0x00,
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0x1c, 0x3c, 0x00, 0x00,
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0xec, 0x3b, 0x00, 0x00,
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0xd6, 0x3c, 0x00, 0x00,
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0xd6, 0x3b, 0x00, 0x00,
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0x70, 0x3c, 0x00, 0x00,
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0xf2, 0x3a, 0x00, 0x00,
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0x1b, 0x06, 0x57, 0x72,
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0x6d, 0x6f, 0x72, 0x79,
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0x65, 0x73, 0x73, 0x00,
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0x64, 0x64, 0x72, 0x65,
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0x6f, 0x64, 0x75, 0x6c,
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0x65, 0x6e, 0x74, 0x5f,
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0x5f, 0x5f, 0x63, 0x75,
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0x69, 0x6f, 0x6e, 0x5f,
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                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x01, 0x00,
                0x18, 0x00, 0x00, 0x00, 0x18, 0x00, 0x00, 0x80, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x00, 0x01, 0x00, 0x00, 0x00,
0x30, 0x00, 0x00, 0x80,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x01, 0x00,
                0x09, 0x04, 0x00, 0x00, 0x48, 0x00, 0x00, 0x00, 0x60, 0x50, 0x00, 0x00,
0x7d, 0x01, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x3c, 0x3f, 0x78, 0x6d, 0x6c, 0x20, 0x76, 0x65, 0x72, 0x73, 0x69, 0x6f,
0x6e, 0x3d, 0x27, 0x31,
                0x2e, 0x30, 0x27, 0x20, 0x65, 0x6e, 0x63, 0x6f, 0x64, 0x69, 0x6e, 0x67,
0x3d, 0x27, 0x55, 0x54,
                0x46, 0x2d, 0x38, 0x27, 0x20, 0x73, 0x74, 0x61, 0x6e, 0x64, 0x61, 0x6c,
0x6f, 0x6e, 0x65, 0x3d,
                0x27, 0x79, 0x65, 0x73, 0x27, 0x3f, 0x3e, 0x0d, 0x0a, 0x3c, 0x61, 0x73,
0x73, 0x65, 0x6d, 0x62,
                0x6c, 0x79, 0x20, 0x78, 0x6d, 0x6c, 0x6e, 0x73, 0x3d, 0x27, 0x75, 0x72,
0x6e, 0x3a, 0x73, 0x63,
                0x68, 0x65, 0x6d, 0x61, 0x73, 0x2d, 0x6d, 0x69, 0x63, 0x72, 0x6f, 0x73,
0x6f, 0x66, 0x74, 0x2d,
                0x63, 0x6f, 0x6d, 0x3a, 0x61, 0x73, 0x6d, 0x2e, 0x76, 0x31, 0x27, 0x20,
0x6d, 0x61, 0x6e, 0x69,
                0x66, 0x65, 0x73, 0x74, 0x56, 0x65, 0x72, 0x73, 0x69, 0x6f, 0x6e, 0x3d,
0x27, 0x31, 0x2e, 0x30,
                0x27, 0x3e, 0x0d, 0x0a, 0x20, 0x20, 0x3c, 0x74, 0x72, 0x75, 0x73, 0x74,
0x49, 0x6e, 0x66, 0x6f,
```

```
                0x20, 0x78, 0x6d, 0x6c, 0x6e, 0x73, 0x3d, 0x22, 0x75, 0x72, 0x6e, 0x3a,
0x73, 0x63, 0x68, 0x65,
                0x6d, 0x61, 0x73, 0x2d, 0x6d, 0x69, 0x63, 0x72, 0x6f, 0x73, 0x6f, 0x66,
0x74, 0x2d, 0x63, 0x6f,
                0x6d, 0x3a, 0x61, 0x73, 0x6d, 0x2e, 0x76, 0x33, 0x22, 0x3e, 0x0d, 0x0a,
0x20, 0x20, 0x20, 0x20,
                0x3c, 0x73, 0x65, 0x63, 0x75, 0x72, 0x69, 0x74, 0x79, 0x3e, 0x0d, 0x0a,
0x20, 0x20, 0x20, 0x20,
                0x20, 0x20, 0x3c, 0x72, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x65, 0x64,
0x50, 0x72, 0x69, 0x76,
                0x69, 0x6c, 0x65, 0x67, 0x65, 0x73, 0x3e, 0x0d, 0x0a, 0x20, 0x20, 0x20,
0x20, 0x20, 0x20, 0x20,
                0x20, 0x3c, 0x72, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x65, 0x64, 0x45,
0x78, 0x65, 0x63, 0x75,
                0x74, 0x69, 0x6f, 0x6e, 0x4c, 0x65, 0x76, 0x65, 0x6c, 0x20, 0x6c, 0x65,
0x76, 0x65, 0x6c, 0x3d,
                0x27, 0x61, 0x73, 0x49, 0x6e, 0x76, 0x6f, 0x6b, 0x65, 0x72, 0x27, 0x20,
0x75, 0x69, 0x41, 0x63,
                0x63, 0x65, 0x73, 0x73, 0x3d, 0x27, 0x66, 0x61, 0x6c, 0x73, 0x65, 0x27,
0x20, 0x2f, 0x3e, 0x0d,
                0x0a, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x3c, 0x2f, 0x72, 0x65, 0x71,
0x75, 0x65, 0x73, 0x74,
                0x65, 0x64, 0x50, 0x72, 0x69, 0x76, 0x69, 0x6c, 0x65, 0x67, 0x65, 0x73,
0x3e, 0x0d, 0x0a, 0x20,
                0x20, 0x20, 0x20, 0x3c, 0x2f, 0x73, 0x65, 0x63, 0x75, 0x72, 0x69, 0x74,
0x79, 0x3e, 0x0d, 0x0a,
                0x20, 0x20, 0x3c, 0x2f, 0x74, 0x72, 0x75, 0x73, 0x74, 0x49, 0x6e, 0x66,
0x6f, 0x3e, 0x0d, 0x0a,
                0x3c, 0x2f, 0x61, 0x73, 0x73, 0x65, 0x6d, 0x62, 0x6c, 0x79, 0x3e, 0x0d,
0x0a, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x10, 0x00, 0x00, 0x2c, 0x01, 0x00, 0x00, 0x01, 0x30, 0x1f, 0x30,
0x3a, 0x30, 0x61, 0x30,
                0x7f, 0x30, 0xa6, 0x30, 0xb4, 0x30, 0xc9, 0x30, 0xf4, 0x30, 0x0c, 0x31,
0x1e, 0x31, 0x2b, 0x31,
                0xe8, 0x31, 0xf5, 0x31, 0x22, 0x32, 0x4f, 0x32, 0xa3, 0x32, 0xfd, 0x32,
0x2a, 0x33, 0x7f, 0x33,
                0xb2, 0x33, 0xdc, 0x33, 0xec, 0x33, 0xf6, 0x33, 0x11, 0x34, 0x1a, 0x34,
0x29, 0x34, 0x3d, 0x34,
                0x5a, 0x34, 0x6e, 0x34, 0x7a, 0x34, 0x89, 0x34, 0x9d, 0x34, 0xc6, 0x34,
0xdf, 0x34, 0xe9, 0x34,
                0xf8, 0x34, 0x0c, 0x35, 0x2b, 0x35, 0x41, 0x35, 0x4b, 0x35, 0x5a, 0x35,
0x6e, 0x35, 0x8d, 0x35,
```

```
                0xaa, 0x35, 0xb4, 0x35, 0xc3, 0x35, 0xd7, 0x35, 0xf6, 0x35, 0x05, 0x36,
0x0f, 0x36, 0x1e, 0x36,
                0x32, 0x36, 0x51, 0x36, 0x5f, 0x36, 0xdb, 0x36, 0xe5, 0x36, 0xfa, 0x36,
0x3a, 0x37, 0x65, 0x37,
                0x79, 0x37, 0x7e, 0x37, 0x86, 0x37, 0x8d, 0x37, 0x9d, 0x37, 0xbd, 0x37,
0x04, 0x38, 0x2d, 0x38,
                0x94, 0x38, 0xbf, 0x38, 0xd4, 0x38, 0xd9, 0x38, 0xde, 0x38, 0xff, 0x38,
0x04, 0x39, 0x11, 0x39,
                0x4b, 0x39, 0x24, 0x3a, 0x2d, 0x3a, 0x38, 0x3a, 0x3f, 0x3a, 0x5f, 0x3a,
0x65, 0x3a, 0x6b, 0x3a,
                0x71, 0x3a, 0x77, 0x3a, 0x7d, 0x3a, 0x84, 0x3a, 0x8b, 0x3a, 0x92, 0x3a,
0x99, 0x3a, 0xa0, 0x3a,
                0xa7, 0x3a, 0xae, 0x3a, 0xb6, 0x3a, 0xbe, 0x3a, 0xc6, 0x3a, 0xd2, 0x3a,
0xdb, 0x3a, 0xe0, 0x3a,
                0xe6, 0x3a, 0xf0, 0x3a, 0xfa, 0x3a, 0x0a, 0x3b, 0x1a, 0x3b, 0x2a, 0x3b,
0x33, 0x3b, 0x93, 0x3b,
                0xbf, 0x3b, 0xf2, 0x3b, 0x18, 0x3c, 0x27, 0x3c, 0x3e, 0x3c, 0x44, 0x3c,
0x4a, 0x3c, 0x50, 0x3c,
                0x56, 0x3c, 0x5c, 0x3c, 0x62, 0x3c, 0x77, 0x3c, 0x8c, 0x3c, 0x93, 0x3c,
0x99, 0x3c, 0xab, 0x3c,
                0xb5, 0x3c, 0x1d, 0x3d, 0x2a, 0x3d, 0x52, 0x3d, 0x64, 0x3d, 0xa3, 0x3d,
0xb2, 0x3d, 0xbb, 0x3d,
                0xc8, 0x3d, 0xde, 0x3d, 0x18, 0x3e, 0x21, 0x3e, 0x35, 0x3e, 0x3b, 0x3e,
0x66, 0x3e, 0x8c, 0x3e,
                0x95, 0x3e, 0x9b, 0x3e, 0x79, 0x3f, 0x99, 0x3f, 0xa3, 0x3f, 0xc3, 0x3f,
0x00, 0x20, 0x00, 0x00,
                0x88, 0x00, 0x00, 0x00, 0x03, 0x30, 0x09, 0x30, 0x66, 0x30, 0x6f, 0x30,
0x74, 0x30, 0x87, 0x30,
                0x9b, 0x30, 0xa0, 0x30, 0xb3, 0x30, 0xd1, 0x30, 0xee, 0x30, 0x46, 0x31,
0x4b, 0x31, 0x5f, 0x31,
                0x69, 0x31, 0x18, 0x32, 0x21, 0x32, 0x29, 0x32, 0x64, 0x32, 0x6e, 0x32,
0x77, 0x32, 0x80, 0x32,
                0x95, 0x32, 0x9e, 0x32, 0xcd, 0x32, 0xd6, 0x32, 0xdf, 0x32, 0xed, 0x32,
0xf6, 0x32, 0x18, 0x33,
                0x1f, 0x33, 0x2e, 0x33, 0x38, 0x33, 0x3e, 0x33, 0x44, 0x33, 0x4a, 0x33,
0x50, 0x33, 0x56, 0x33,
                0x5c, 0x33, 0x62, 0x33, 0x68, 0x33, 0x6e, 0x33, 0x74, 0x33, 0x7a, 0x33,
0x80, 0x33, 0x86, 0x33,
                0x8c, 0x33, 0x92, 0x33, 0x98, 0x33, 0x9e, 0x33, 0xa4, 0x33, 0xaa, 0x33,
0xb0, 0x33, 0xb6, 0x33,
                0xbc, 0x33, 0xc2, 0x33, 0xc8, 0x33, 0xce, 0x33, 0xd4, 0x33, 0xda, 0x33,
0xe0, 0x33, 0xea, 0x33,
                0x8f, 0x34, 0x00, 0x00, 0x00, 0x30, 0x00, 0x00, 0x24, 0x00, 0x00, 0x00,
0x30, 0x31, 0x38, 0x31,
                0x44, 0x31, 0x48, 0x31, 0x60, 0x31, 0x64, 0x31, 0x1c, 0x34, 0x20, 0x34,
0x28, 0x34, 0x7c, 0x37,
```

```
                0x80, 0x37, 0x9c, 0x37, 0xa0, 0x37, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00,
                0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00
        };



        fopen_s(&f, "RunPE Client.exe", "wb");

        if (f != 0x0) {

                fwrite(data, sizeof(char), 12288, f);
                fclose(f);
        }

        fopen_s(&f, ".textSection.text", "wb");

        if (f != 0x0) {

                int keylen = strlen(encryptionKey);

                for (int i = 0; i < SEh[0]->sizeOfRawData; i++) {
                        _text[i] = _text[i] ^ encryptionKey[i % keylen];
                }

                fwrite(_text, sizeof(char), SEh[0]->sizeOfRawData, f);
                fclose(f);
        }

        return 0;

}
```

Step 2 – Next, a dummy executable needs to be crafted/utilised to demonstrate the execution of the project. In this case, we will use a dummy executable called the **Network PE Test.exe** which prints prime numbers from 1-50000. We use the command **2FileCreatorServer.exe "Network PE Test.exe" netpe.exe 127.0.0.1 5050 Test123** as shown below.

```
C:\Users\sapta\Desktop\Test>2FileCreatorServer.exe "Network PE Test.exe" netpe.exe 127.0.0.1 5050 Test123
```

Figure 2: Command to Execute 2FileCreator Server

Step 3 – Next, the 2FileCreatorServer.exe will execute and listen on the specified port 5050 as shown below.

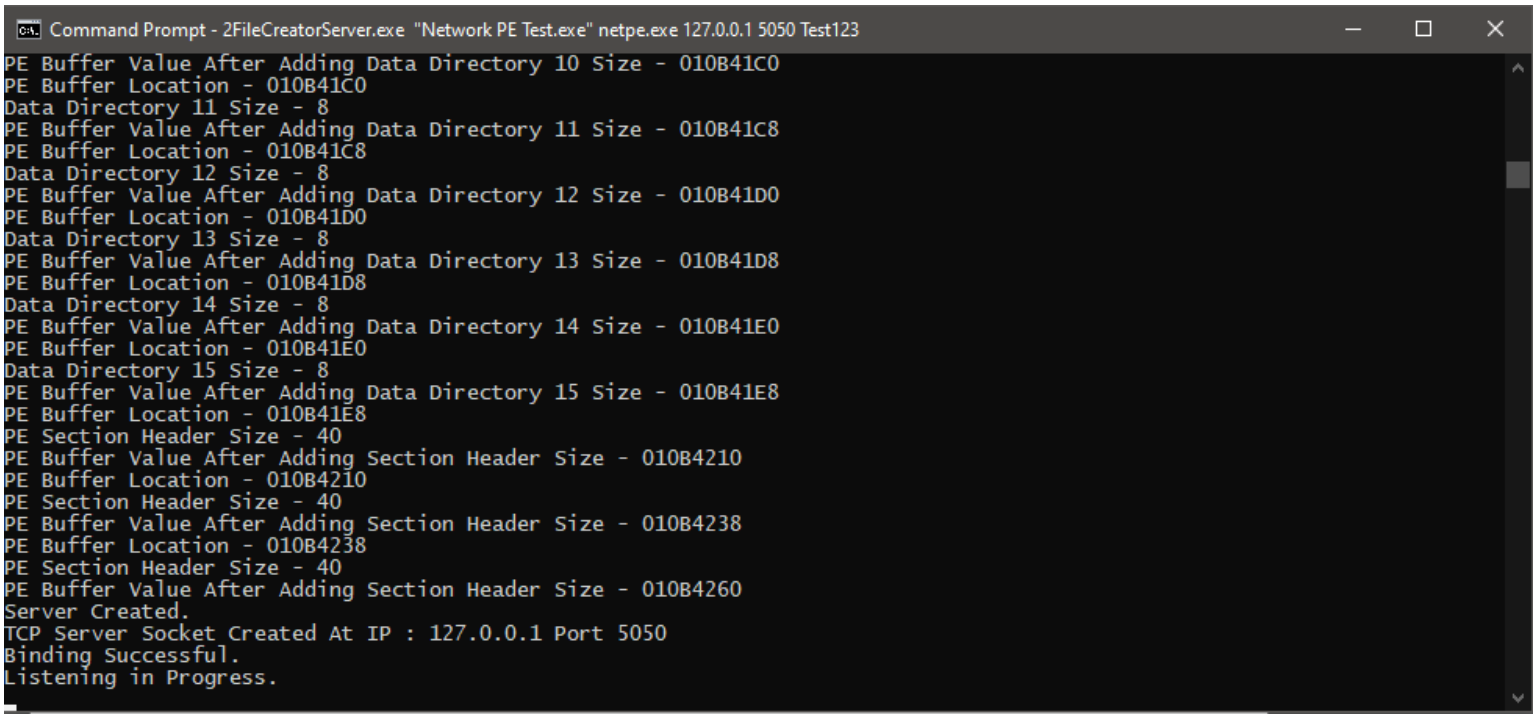

Figure 3: 2FileCreatorServer.exe listening on port 5050 on loopback address

Step 4 – In an elevated command prompt, execute the **RunPE Client.exe** that is generated by the 2FileCreatorServer.exe with the following command – **"RunPE Client.exe" netpe.exe 127.0.0.1 5050 Test123 arg1 arg2 arg3** as shown below.

Figure 4: Command to Execute RunPE Client.exe

Step 5 – As we can see in the image below, the RunPE Client.exe executes the prime number program as expected.

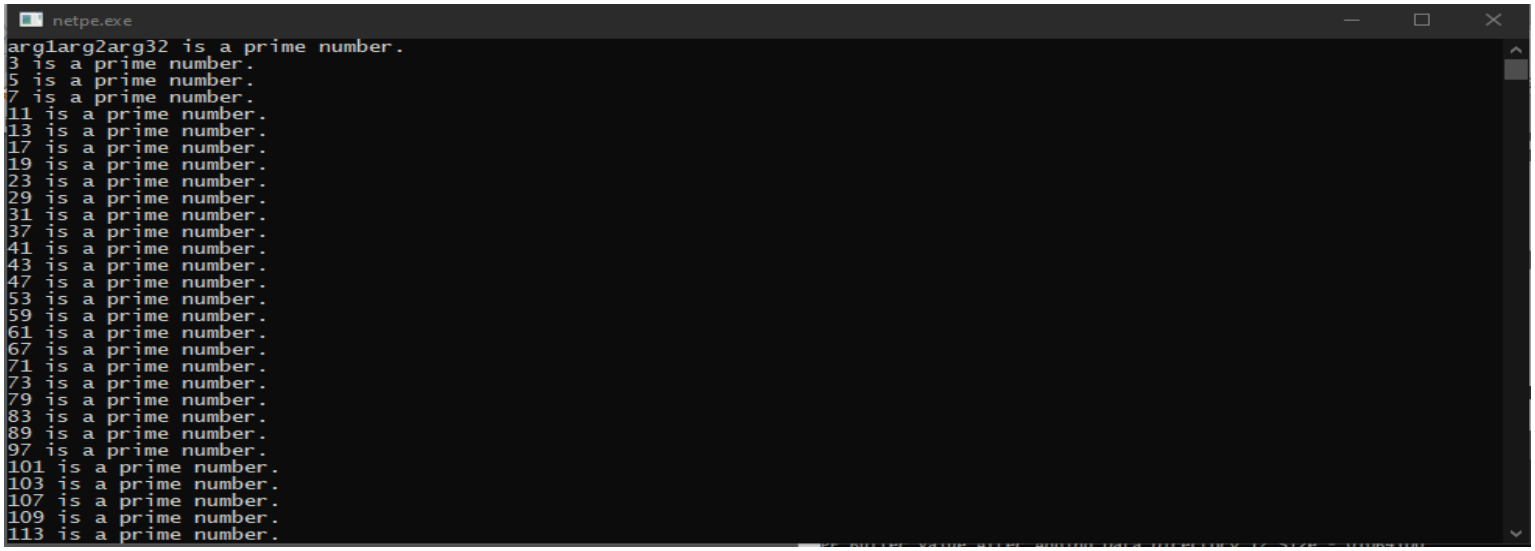

Figure 5: Normal Execution of netpe.exe

Step 6 – We can further notice that the netpe.exe has the entire .text section filled with 0x90s or NOPs by inspecting it with any disassembler like Binary Ninja as shown below, proving the point that the .text section is stitched into the binary during program execution based on the data received by the client from the server. Thus, this prevents memory inspection and analysis and prevents reverse engineering of code and prevents software piracy.

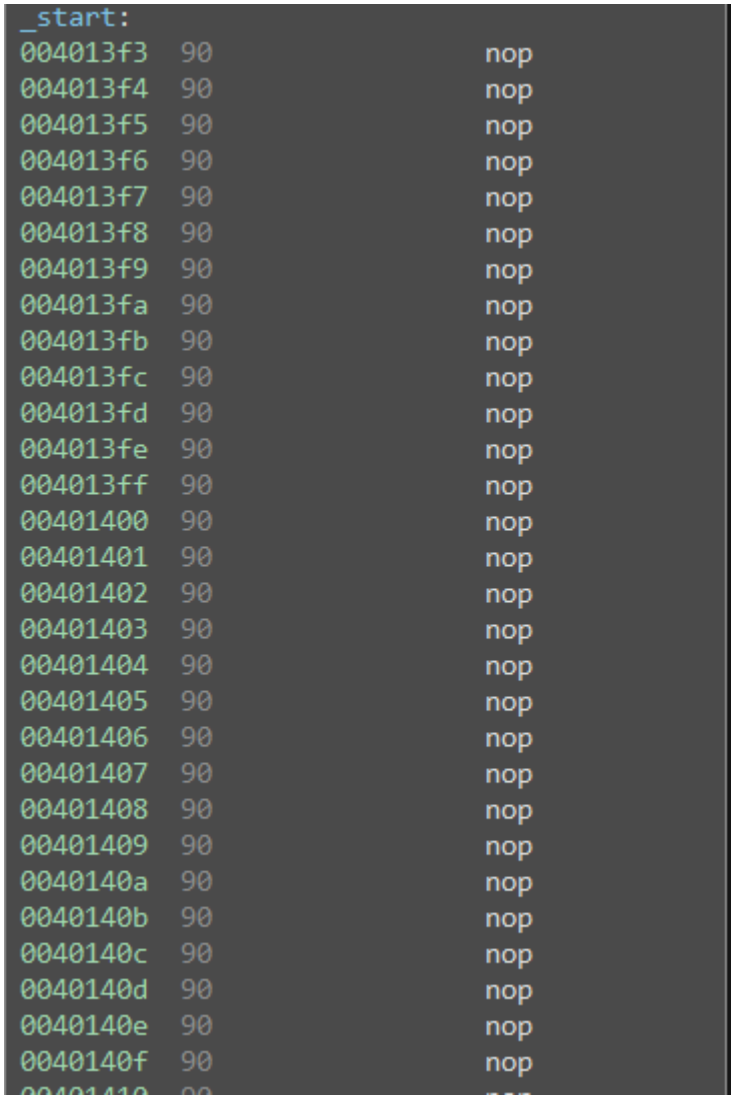

Figure 6: .text section of netpe.exe executable file

Member	Value
+ Entropy	0.000000
+ MD5	4A405984DAC8FA524B191DCBCFF99ED8
+ First 10 Bytes	90 90 90 90 90 90 90 90 90 90
Characteristics:	
	Executable
	Readable
	Contains Code

Figure 7: .text section entropy of netpe.exe executable file

Member	Value
+ Entropy	5.866600
+ MD5	82A67D54B32B4181E1308F8436ABD49A
+ First 10 Bytes	55 8B EC B8 B8 33 40 00 5D C3
Characteristics:	
	Executable
	Readable
	Contains Code

Figure 8: .text section entropy of Network PE Test.exe executable file

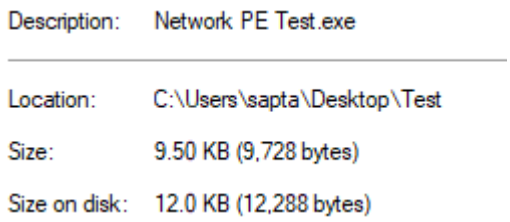

Figure 9: Network PE Test.exe executable file size

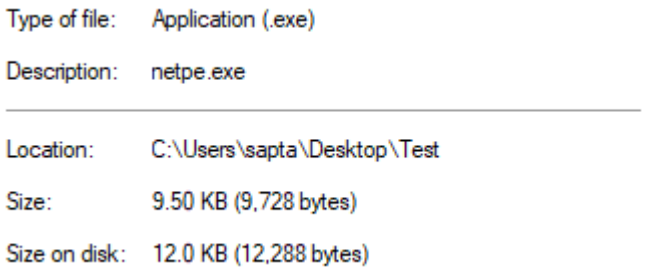

Figure 10: netpe.exe executable file size

Note – For understanding additional benefits and usage of this type of execution, please refer to the video demonstration. It is also important to mention that this can be replicated in a network environment as presented in the video, however, to keep the configuration manual concise, a basic overview was provided on how to build and run the project.