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Ex:9: Remote Command Execution Using UDP

AIM: Implementation of Remote Command Execution Using UDP using AWS console.

CODE: -

Client:

#include <sys/types.h>

#include <sys/socket.h>

#include <stdio.h>

#include <unistd.h>

#include <netdb.h>

#include <netinet/in.h>

#include <string.h>

#include <arpa/inet.h>

#define MAX 1000

int main()

{

int serverDescriptor = socket(AF\_INET, SOCK\_DGRAM, 0);

char buffer[MAX], message[MAX];

struct sockaddr\_in cliaddr, serverAddress;

socklen\_t serverLength = sizeof(serverAddress);

bzero(&serverAddress, sizeof(serverAddress));

serverAddress.sin\_family = AF\_INET;

serverAddress.sin\_addr.s\_addr = inet\_addr("127.0.0.1");

serverAddress.sin\_port = htons(9976);

bind(serverDescriptor, (struct sockaddr \*)&serverAddress, sizeof(serverAddress));

while (1)

{

printf("\nCOMMAND FOR EXECUTION ... ");

fgets(buffer, sizeof(buffer), stdin);

sendto(serverDescriptor, buffer, sizeof(buffer), 0, (struct sockaddr \*)&serverAddress, serverLength);

printf("\nData Sent !");

recvfrom(serverDescriptor, message, sizeof(message), 0, (struct sockaddr \*)&serverAddress, &serverLength);

printf("UDP SERVER : %s", message);

}

return 0;

}

Server:

#include <sys/types.h>

#include <sys/socket.h>

#include <stdio.h>

#include <stdlib.h>

#include <netdb.h>

#include <netinet/in.h>

#include <string.h>

#include <sys/stat.h>

#include <arpa/inet.h>

#include <unistd.h>

#define MAX 1000

int main()

{

int serverDescriptor = socket(AF\_INET, SOCK\_DGRAM, 0);

int size;

char buffer[MAX], message[] = "Command Successfully executed !";

struct sockaddr\_in clientAddress, serverAddress;

socklen\_t clientLength = sizeof(clientAddress);

bzero(&serverAddress, sizeof(serverAddress));

serverAddress.sin\_family = AF\_INET;

serverAddress.sin\_addr.s\_addr = htonl(INADDR\_ANY);

serverAddress.sin\_port = htons(9976);

bind(serverDescriptor, (struct sockaddr \*)&serverAddress, sizeof(serverAddress));

while (1)

{

bzero(buffer, sizeof(buffer));

recvfrom(serverDescriptor, buffer, sizeof(buffer), 0, (struct sockaddr \*)&clientAddress, &clientLength);

system(buffer);

printf("Command Executed ... %s ", buffer);

sendto(serverDescriptor, message, sizeof(message), 0, (struct sockaddr \*)&clientAddress, clientLength);

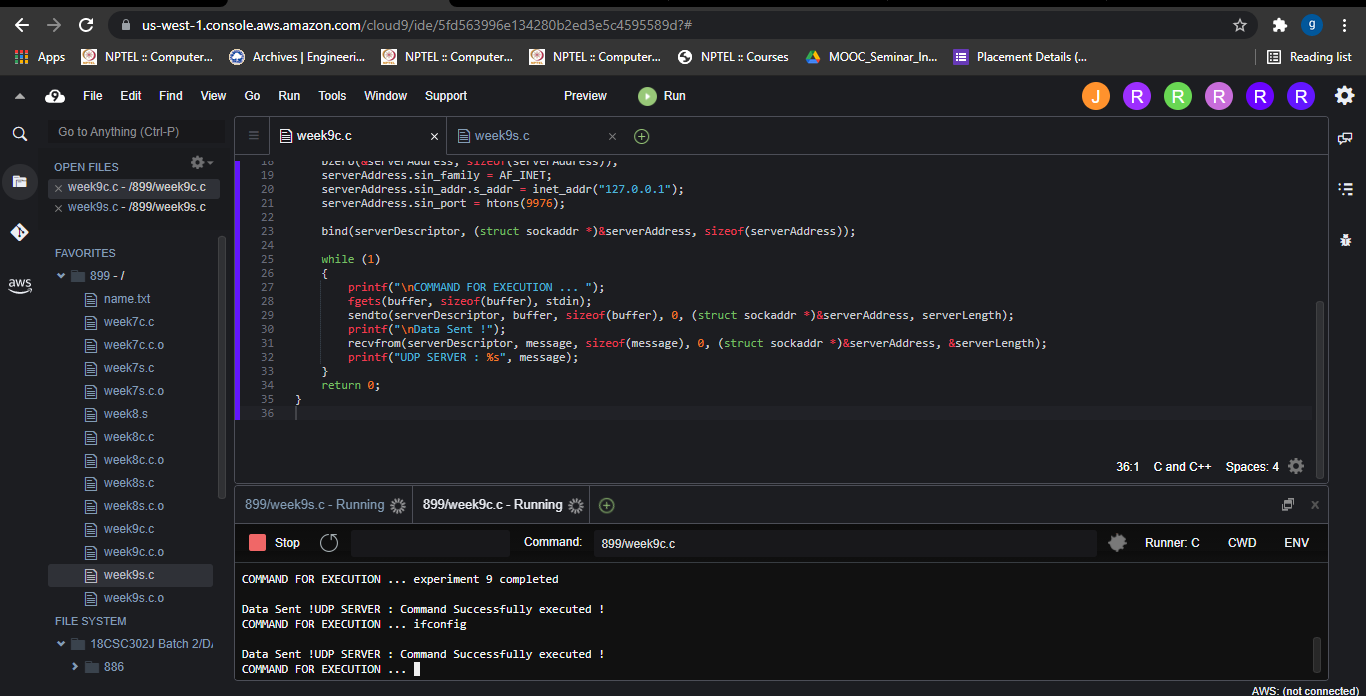
}

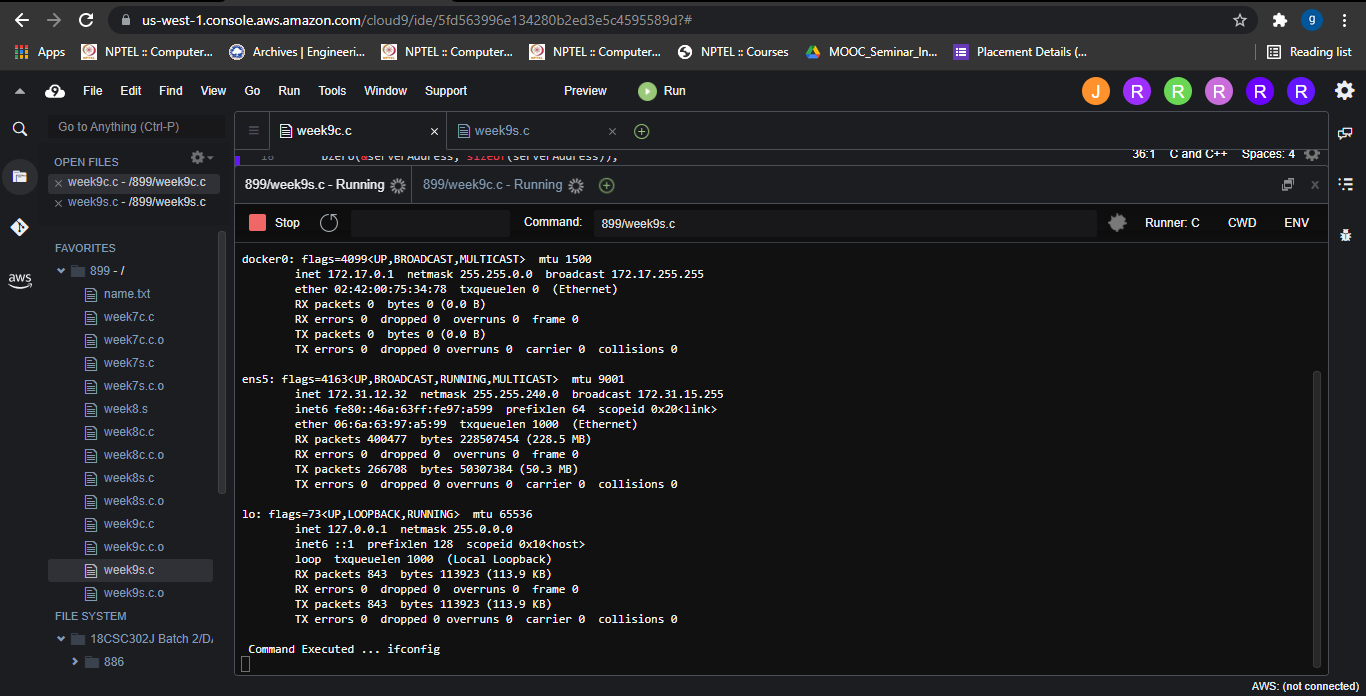
close(serverDescriptor);

return 0;

}

SCREENSHOTS:





RESULT: Remote Command Execution Using UDP using AWS console has been implemented.