Linux Socket Programming Job Interview Questions And Answers

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Linux Socket Programming Interview Questions And Answers Guide.

Question - 1:

What is the difference between fork() & exec()?

Ans:

fork() created a newly independent process that has it's own space in memory and also has own permission depends upon what you assign

Using exec() the created process is a sub thread of calling process. They also share area in memory and so that also share all permission and resources.

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Question - 2:

What is the difference between a process task and threads?

Ans:

process and task as synonymous. One or more threads together form a process. The threads, two or more belong to same process, share same address space of the process and can access all the global variable of the process.
Where as two processes can't access each other's address space and hence cant access their global variable. Two processes can talk with each other using IPC.
what are the things that are acquired by the child process from the parent process?
File descriptors [including socket descriptor].
The whole text segment.
Environment variables.
PPID is PID of parent process.

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Question - 3:

What is the difference between a process task and threads and what are the things that are acquired by the child process from the parent process?

Ans:

Process is an executing program with several components and proprieties.
1.exec thread
2. PID
3. priority
4. memory context
5. enviornment
6. file descriptors
7. security credentials.
processes began through a process called "fork and exec".
that is when one command starts another, the child process first forks , the kernel copying over pages of memory from the present process to a new location for the child process. The child then execs, executing the new command and overwriting the data.the thread is , which controls the flow of the process. A process needs at least one thread.

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Question - 4:

Why bind system call is required in socket programming?

Ans:

bind system call assigns a name to the unnamed socket.
Binding an address allows a process to register its address
with the system. This makes it possible for other process to
find it.

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Question - 5:

What is the difference between socket & port?

Ans:

port : a particular port number on a host
socket: a host and a port
like
-> http port = 80
-> when you fire up google.com
   the socket on the server side is google.com:80 this is the server side socket
   on your local system where you are browsing the socket is
    yourip:port above 1024

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Question - 6:

How to get client port number in server socket programming?

Ans:

After accepting connection on socket of server side. we can
get the client ip address and port by to functions. These
functions are belonging in "/usr/include/arpa/inet.h" header
file.
Here is some scratch from the code.
socket2 = accept(socket1, (struct sockaddr *)&client, &addrlen);
 printf("%s
",inet_ntoa(client.sin_addr));
 printf("%d
",(int) ntohs(client.sin_port));

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