

Java Networking - Sockets and RMI Job Interview Questions And Answers



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Java Networking - Sockets and RMI Interview Questions And Answers Guide.

Question - 1:

What interface must an object implement before it can be written to a stream as an object?

Ans:

An object must implement the Serializable or Externalizable interface before it can be written to a stream as an object.

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Question - 2:

What is the difference between the File and RandomAccessFile classes?

Ans:

The File class encapsulates the files and directories of the local file system. The RandomAccessFile class provides the methods needed to directly access data contained in any part of a file.

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Question - 3:

What is RMI?

Ans:

RMI is a set of APIs that allows to build distributed applications. RMI uses interfaces to define remote objects to turn local method invocations into remote method invocations.

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Question - 4:

What does RMI stand for?

Ans:

It stands for Remote Method Invocation.

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Question - 5:

When MalformedURLException and UnknownHostException throws?

Ans:

When the specified URL is not connected then the URL throw MalformedURLException and If InetAddress? methods getByName and getLocalHost are unable to resolve the host name they throw an UnknownHostException.

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Question - 6:

What are the two important TCP Socket classes?

Ans:

Socket and ServerSocket. ServerSocket is used for normal two-way socket communication. Socket class allows us to read and write through the sockets. getInputStream() and getOutputStream() are the two methods available in Socket class.

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Question - 7:

What information is needed to create a TCP Socket?

**Ans:**

The Local System's IP Address and Port Number. And the Remote System's IP Address and Port Number.

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Question - 8:

What Is a Socket in Java Networking and RMI?

Ans:

A socket is one end-point of a two-way communication link between two programs running on the network. A socket is bound to a port number so that the TCP layer can identify the application that data is destined to be sent. Socket classes are used to represent the connection between a client program and a server program. The java.net package provides two classes-Socket and ServerSocket-which implement the client side of the connection and the server side of the connection, respectively.

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Question - 9:

How do I make a connection to URL?

Ans:

You obtain a URL instance and then invoke openConnection on it. URLConnection is an abstract class, which means you can't directly create instances of it using a constructor. We have to invoke openConnection method on a URL instance, to get the right kind of connection for your URL. Eg. URL url;

```
URLConnection connection;
try {
    url = new URL("...");
    connection = url.openConnection();
} catch (MalformedURLException e) { }
```

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Question - 10:

What is the difference between URL instance and URLConnection instance?

Ans:

A URL instance represents the location of a resource, and a URLConnection instance represents a link for accessing or communicating with the resource at the location.

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