WCF Data Services Job Interview Questions And Answers

About Interview Questions Answers

Interview Questions Answers . ORG is an interview preparation guide of thousands of Job Interview Questions And Answers, Job Interviews are always stressful even for job seekers who have gone on countless interviews. The best way to reduce the stress is to be prepared for your job interview. Take the time to review the standard interview questions you will most likely be asked. These interview questions and answers on WCF Data Services will help you strengthen your technical skills, prepare for the interviews and quickly revise the concepts.

If you find any **question or answer** is incorrect or incomplete then you can **submit your question or answer** directly with out any registration or login at our website. You just need to visit WCF Data Services Interview Questions And Answers to add your answer click on the *Submit Your Answer* links on the website; with each question to post your answer, if you want to ask any question then you will have a link *Submit Your Question*; that's will add your question in WCF Data Services category. To ensure quality, each submission is checked by our team, before it becomes live. This WCF Data Services Interview preparation PDF was generated at **Wednesday 29th November, 2023**

You can follow us on FaceBook for latest Jobs, Updates and other interviews material.
www.facebook.com/InterviewQuestionsAnswers.Org

Follow us on Twitter for latest Jobs and interview preparation guides.
https://twitter.com/InterviewQA

If you need any further assistance or have queries regarding this document or its material or any of other inquiry, please do not hesitate to contact us.

Best Of Luck.

Interview Questions Answers.ORG Team
https://InterviewQuestionsAnswers.ORG/
Support@InterviewQuestionsAnswers.ORG

WCF Data Services Interview Questions And Answers Guide.

Question - 1:

Tell me what is three major points in WCF?

Ans:

We Should remember ABC.
Address --- Specifies the location of the service which will be like http://Myserver/MyService.Clients will use this location to communicate with our service.
Binding --- Specifies how the two paries will communicate in term of transport and encoding and protocols
Contract --- Specifies the interface between client and the server.It's a simple interface with some attribute.

View All Answers

Question - 2:

Explain what is the difference WCF and Web services?

Ans:

Web services can only be invoked by HTTP (traditional webservice with .asmx). While WCF Service or a WCF component can be invoked by any protocol (like http, tcp etc.) and any transport type.
Second web services are not flexible. However, WCF Services are flexible. If you make a new version of the service then you need to just expose a new end. Therefore, services are agile and which is a very practical approach looking at the current business trends.
We develop WCF as contracts, interface, operations, and data contracts. As the developer we are more focused on the business logic services and need not worry about channel stack. WCF is a unified programming API for any kind of services so we create the service and use configuration information to set up the communication mechanism like HTTP/TCP/MSMQ etc

View All Answers

Question - 3:

Explain what are the main components of WCF?

Ans:

The main components of WCF are
1. Service class
2. Hosting environment
3. End point

View All Answers

Question - 4:

Tell me what was the code name for WCF?

Ans:

The code name of WCF was Indigo .
WCF is a unification of .NET framework communication technologies which unites the following technologies:-
NET remoting
MSMQ
Web services
COM+

View All Answers

Question - 5:

Explain what is Transport and Message Reliability?

Ans:

Transport reliability (such as the one offered by TCP) offers point-to-point guaranteed delivery at the network packet level, as well as guarantees the order of the packets. Transport reliability is not resilient to dropping network connections and a variety of other communication problems.
Message reliability deals with reliability at the message level independent of how many packets are required to deliver the message. Message reliability provides for end-to-end guaranteed delivery and order of messages, regardless of how many intermediaries are involved, and how many network hops are required to deliver the message from the client to the service.

Question - 6:

Tell me what is Proxy and how to generate proxy for WCF Services?

Ans:

The proxy is a CLR class that exposes a single CLR interface representing the service contract. The proxy provides the same operations as service's contract, but also has additional methods for managing the proxy life cycle and the connection to the service. The proxy completely encapsulates every aspect of the service: its location, its implementation technology and runtime platform, and the communication transport.

The proxy can be generated using Visual Studio by right clicking Reference and clicking on Add Service Reference. This brings up the Add Service Reference dialog box, where you need to supply the base address of the service (or a base address and a MEX URI) and the namespace to contain the proxy.

Proxy can also be generated by using SvcUtil.exe command-line utility. We need to provide SvcUtil with the HTTP-GET address or the metadata exchange endpoint address and, optionally, with a proxy filename. The default proxy filename is output.cs but you can also use the /out switch to indicate a different name.

Question - 7:

Do you know what is the address formats of the WCF transport schemas?

Ans:

Address format of WCF transport schema always follow
[transport]://[machine or domain][:optional port] format.
for example:
HTTP Address Format
http://localhost:8888
the way to read the above url is
"Using HTTP, go to the machine called localhost, where on port 8888 someone is waiting"
When the port number is not specified, the default port is 80.
TCP Address Format
net.tcp://localhost:8888/MyService
When a port number is not specified, the default port is 808:
net.tcp://localhost/MyService
NOTE: Two HTTP and TCP addresses from the same host can share a port, even on the same machine.
IPC Address Format
net.pipe://localhost/MyPipe
We can only open a named pipe once per machine, and therefore it is not possible for two named pipe addresses to share a pipe name on the same machine.
MSMQ Address Format
net.msmq://localhost/private/MyService
net.msmq://localhost/MyService

Question - 8:

Can you explain how to define a service as REST based service in WCF?

Ans:

WCF 3.5 provides explicit support for RESTful communication using a new binding named WebHttpBinding.
The below code shows how to expose a RESTful service
```
[ServiceContract]
interface IStock
{
[OperationContract]
[WebGet]
int GetStock(string StockId);
}
```
By adding the WebGetAttribute, we can define a service as REST based service that can be accessible using HTTP GET operation.

Question - 9:

Do you know what is endpoint in WCF?

Ans:

Every service must have Address that defines where the service resides, Contract that defines what the service does and a Binding that defines how to communicate with the service. In WCF the relationship between Address, Contract and Binding is called Endpoint.
The Endpoint is the fusion of Address, Contract and Binding.

Question - 10:

Do you know where we can host WCF services?

Ans:

Every WCF services must be hosted somewhere. There are three ways of hosting WCF services.
They are
1. IIS
2. Self Hosting
3. WAS (Windows Activation Service)

Question - 11:

Do you know message contracts?

Ans:

Allow the service to interact directly with messages. Message contracts can be typed or untyped, and are useful in interoperability cases and when there is an existing message format we have to comply with.

View All Answers

Question - 12:

Can you explain fault contracts?

Ans:

Define which errors are raised by the service, and how the service handles and propagates errors to its clients.

View All Answers

Question - 13:

Explain Data contracts?

Ans:

Define which data types are passed to and from the service. WCF defines implicit contracts for built-in types such as int and string, but we can easily define explicit opt-in data contracts for custom types.
There are two types of Data Contracts.
DataContract - attribute used to define the class
DataMember - attribute used to define the properties.
[DataContract]
class Contact
{
  [DataMember]
  public string FirstName;
  [DataMember]
  public string LastName;
}

View All Answers

Question - 14:

Explain Service contracts?

Ans:

Describe which operations the client can perform on the service.
There are two types of Service Contracts.
ServiceContract - This attribute is used to define the Interface.
OperationContract - This attribute is used to define the method inside Interface.
[ServiceContract]
interface IMyContract
{
  [OperationContract]
  string MyMethod( );
}
class MyService : IMyContract
{
  public string MyMethod( )
  {
    return "Hello World";
  }
}

View All Answers

Question - 15:

Do you know what is address in WCF and how many types of transport schemas are there in WCF?

Ans:

Address is a way of letting client know that where a service is located. In WCF, every service is associated with a unique address. This contains the location of the service and transport schemas.
WCF supports following transport schemas
HTTP
TCP
Peer network
IPC (Inter-Process Communication over named pipes)
MSMQ
The sample address for above transport schema may look like
http://localhost:81
http://localhost:81/MyService
net.tcp://localhost:82/MyService
net.pipe://localhost/MyPipeService
net.msmq://localhost/private/MyMsMqService
net.msmq://localhost/MyMsMqService

Question - 16:

Tell me what is service and client in perspective of data communication?

Ans:

A service is a unit of functionality exposed to the world.
The client of a service is merely the party consuming the service.

Question - 17:

Explain WCF?

Ans:

Windows Communication Foundation (WCF) is an SDK for developing and deploying services on Windows. WCF provides a runtime environment for services, enabling you to expose CLR types as services, and to consume other services as CLR types.
WCF is part of .NET 3.0 and requires .NET 2.0, so it can only run on systems that support it.

Question - 18:

Explain MSMQ integration binding?

Ans:

Offered by the MsmqIntegrationBinding class, this converts WCF messages to and from MSMQ messages, and is designed to interoperate with legacy MSMQ clients.

Question - 19:

What is MSMQ binding?

Ans:

Offered by the NetMsmqBinding class, this uses MSMQ for transport and is designed to offer support for disconnected queued calls.

Question - 20:

Explain Duplex WS binding?

Ans:

Offered by the WSDualHttpBinding class, this is similar to the WS binding except it also supports bidirectional communication from the service to the client.

Question - 21:

Explain WCF Federated WS binding type?

Ans:

Offered by the WSFederationHttpBinding class, this is a specialization of the WS binding, offering support for federated security.

Question - 22:

Explain WCF Web Service (WS) binding type?

Ans:

Offered by the WSHttpBinding class, this uses HTTP or HTTPS for transport, and is designed to offer a variety of features such as reliability, transactions, and security over the Internet.

Question - 23:

Explain WCF IPC binding type?

Ans:

IPC binding
Offered by the NetNamedPipeBinding class, this uses named pipes as a transport for same-machine communication. It is the most secure binding since it cannot accept calls from outside the machine and it supports a variety of features similar to the TCP binding.

Question - 24:

What is WCF Peer network binding type?

Ans:

Peer network binding
Offered by the NetPeerTcpBinding class, this uses peer networking as a transport. The peer network-enabled client and services all subscribe to the same grid and

broadcast messages to it.

Question - 25:

What is WCF TCP binding type?

Ans:

Offered by the NetTcpBinding class, this uses TCP for cross-machine communication on the intranet. It supports a variety of features, including reliability, transactions, and security, and is optimized for WCF-to-WCF communication. As a result, it requires both the client and the service to use WCF.

Question - 26:

Explain WCF Basic binding type?

Ans:

Offered by the BasicHttpBinding class, this is designed to expose a WCF service as a legacy ASMX web service, so that old clients can work with new services. When used by the client, this binding enables new WCF clients to work with old ASMX services.

Microsoft .Net Technologies Most Popular & Related Interview Guides

1 : **MSF Interview Questions and Answers.**

2 : **.Net Architecture Interview Questions and Answers.**

3 : **ASP.Net MVC Interview Questions and Answers.**

4 : **Entity Framework Interview Questions and Answers.**

5 : **C# (Sharp) Programming Language Interview Questions and Answers.**

6 : **VB .Net Interview Questions and Answers.**

7 : **ADO.NET Interview Questions and Answers.**

8 : **WCF (Windows Communication Foundation) Interview Questions and Answers.**

9 : **Crystal Reports Interview Questions and Answers.**

10 : **.Net Database Interview Questions and Answers.**

Follow us on FaceBook
www.facebook.com/InterviewQuestionsAnswers.Org

Follow us on Twitter
https://twitter.com/InterviewQA

For any inquiry please do not hesitate to contact us.

Interview Questions Answers.ORG Team
https://InterviewQuestionsAnswers.ORG/
support@InterviewQuestionsAnswers.ORG