Question No : 1 / 15 bookmarkIcon Multi Choice Type Question What are the common logging output options available when configuring Log4net? Marks : 1 Negative Marks : 0 image Answer here Console, File, and Event Viewer Database, Email, and Console Console, File, and Database File, Console, and Email

The correct answer is:

**Console, File, and Event Viewer** ✅

These are the most common appenders (logging output options) provided by **Log4net** for sending log messages to different destinations. Other options like Database or Email are available but less commonly used as defaults.

**You said:**

Multi Choice Type Question Which log level is used for messages that indicate potential issues or unexpected situations? Marks : 1 Negative Marks : 0 image Answer here Error Warn Info Debug

The correct answer is:

**Warn** ✅

The **Warn** log level is used for messages that indicate **potential issues or unexpected situations** that are not necessarily errors but may need attention.

**You said:**

Multi Choice Type Question Which log level is used for messages that provide detailed information, helpful for debugging purposes? Marks : 1 Negative Marks : 0 image Answer here Warn Debug Trace Info

The correct answer is:

**Debug** ✅

The **Debug** log level is used for messages that provide **detailed diagnostic information**, which is helpful for **troubleshooting and debugging** applications.

**You said:**

Multi Choice Type Question How can you log the request and response JSON payloads in a .NET Core Web API using Log4net? Marks : 1 Negative Marks : 0 image Answer here By manually serializing the JSON and logging it using the appropriate log level By using the built-in Log4net feature to automatically log JSON payloads .NET Core Web API does not support logging JSON payloads with Log4net By using the [LogRequestResponse] attribute on the controller

The correct answer is:

**By manually serializing the JSON and logging it using the appropriate log level** ✅

Log4net does **not automatically capture request and response JSON** in .NET Core. You need to **manually serialize** the payloads (e.g., using JsonConvert.SerializeObject) and log them using the desired log level.

**You said:**

Multi Choice Type Question How can you specify different logging configurations for different environments (e.g., development, production) in Log4net? Marks : 1 Negative Marks : 0 image Answer here By using conditional statements in the configuration file By using different configuration files for each environment By specifying environment-specific settings in the appsettings.json file Log4net does not support environment-specific configuration

The correct answer is:

**By using different configuration files for each environment** ✅

In Log4net, you can maintain **separate configuration files** (e.g., log4net.Development.config, log4net.Production.config) and load the appropriate one at runtime based on the environment.

**You said:**

Multi Choice Type Question Which log level is used for messages that provide general information about the application's flow? Marks : 1 Negative Marks : 0 image Answer here Error Warn Info Debug

The correct answer is:

**Info** ✅

The **Info** log level is used for messages that provide **general information about the application's flow**, such as key operations or milestones, without indicating any problem.

**You said:**

ulti Choice Type Question How can you configure a rolling file appender to limit the number of log files generated by Log4net? Marks : 1 Negative Marks : 0 image Answer here By specifying the maximum number of log files in the configuration file By using a separate log file for each day, month, or year By compressing log files into a single archive file Log4net does not support limiting the number of log files

The correct answer is:

**By specifying the maximum number of log files in the configuration file** ✅

In Log4net, a **RollingFileAppender** can be configured with the **MaxSizeRollBackups** property to limit how many backup log files are kept, controlling the total number of log files generated.

**You said:**

Multi Choice Type Question What is the purpose of a rolling file appender in Log4net? Marks : 1 Negative Marks : 0 image Answer here To automatically delete log files after a certain time period To archive log files based on a specific size or time interval To write log messages to the console window To encrypt log files for security purposes

The correct answer is:

**To archive log files based on a specific size or time interval** ✅

A **RollingFileAppender** in Log4net is used to **automatically create new log files** when the current file reaches a certain **size** or after a specified **time interval**, helping manage log file growth and organization.

**You said:**

Multi Choice Type Question Which log level is used for messages that provide the most detailed information, including method calls and variable values? Marks : 1 Negative Marks : 0 image Answer here Error Warn Debug Trace

The correct answer is:

**Trace** ✅

The **Trace** log level is used for **the most detailed messages**, including method calls, variable values, and step-by-step execution details, which is useful for **deep debugging and diagnostics**.

**You said:**

Multi Choice Type Question What is the purpose of the<appender> element in the Log4net configuration? Marks : 1 Negative Marks : 0 image Answer here To define the log level for specific loggers To specify the output destination for log messages To enable logging for different environments (e.g., development, production) To define custom log message layouts

The correct answer is:

**To specify the output destination for log messages** ✅

In Log4net, the <appender> element **defines where log messages will be sent**, such as a file, console, database, or event viewer.

**You said:**

Multi Choice Type Question What is the purpose of a logger hierarchy in Log4net? Marks : 1 Negative Marks : 0 image Answer here To define different log levels for various parts of the application To organize loggers into a hierarchical structure for easier management To handle log messages from different environments To specify the output destination for log messages

The correct answer is:

**To organize loggers into a hierarchical structure for easier management** ✅

In Log4net, a **logger hierarchy** allows you to structure loggers (e.g., by namespace or class) so that **log levels and appenders can be inherited and managed efficiently** across different parts of the application.

**You said:**

Multi Choice Type Question How can you include additional contextual information (e.g., user ID, request ID) in Log4net log messages? Marks : 1 Negative Marks : 0 image Answer here By manually appending the information to each log message in the application code By using Log4net's built-in context properties By configuring Log4net to automatically capture this information from HTTP headers Log4net does not support including contextual information in log messages

The correct answer is:

**By using Log4net's built-in context properties** ✅

Log4net provides **context properties** like LogicalThreadContext, ThreadContext, and GlobalContext that allow you to **add contextual information** (e.g., user ID, request ID) to log messages without manually appending them each time.

**You said:**

Multi Choice Type Question In Log4net, what is the default logging level if not explicitly configured? Marks : 1 Negative Marks : 0 image Answer here Error Warn Info Debug

The correct answer is:

**Debug** ✅

In Log4net, if a logger's level is **not explicitly configured**, it defaults to **Debug**, meaning it will log messages at the **Debug level and higher** (Debug, Info, Warn, Error, Fatal).

**You said:**

Multi Choice Type Question How can you configure Log4net to log messages asynchronously in an ASP.NET Core MVC application? Marks : 1 Negative Marks : 0 image Answer here By setting the Async attribute to true in the configuration file By using a separate thread for logging in the application code By using the [AsyncLog] attribute on the controller methods Log4net does not support asynchronous logging

The correct answer is:

**By setting the Async attribute to true in the configuration file** ✅

Log4net supports **asynchronous logging** through the **AsyncAppender**, which wraps other appenders and allows log messages to be **processed on a separate thread**, improving application performance.

**You said:**

Multi Choice Type Question What is the primary purpose of Log4net in ASP.NET Core MVC applications? Marks : 1 Negative Marks : 0 image Answer here To handle authentication and authorization To manage database connections To capture and store log messages for debugging and monitoring To design user interfaces

The correct answer is:

**To capture and store log messages for debugging and monitoring** ✅

The primary purpose of **Log4net** in ASP.NET Core MVC applications is to **log application events, errors, and diagnostic information**, which helps in **troubleshooting, monitoring, and maintaining the application**.

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