CONFIGURATION GUIDES › .NET

Monitor .NET applications running on Windows using Opentelemetry

Applicare 10.0 · Updated May 5, 2026 · dotnet, opentelemetry, windows · **Pending technical review**

To begin monitoring, Install the SingleAgent.

Once the **SingleAgent** installation is successfully completed, follow the subsequent steps below:

1. Open powershell in adminstrator mode and execute the following commands one by one.

```powershell
$module_url = "https://github.com/open-telemetry/opentelemetry-dotnet-instrumentation/releases/latest/download/OpenTelemetry.DotNet.Auto.psm1"
$download_path = Join-Path $env:temp "OpenTelemetry.DotNet.Auto.psm1"
Invoke-WebRequest -Uri $module_url -OutFile $download_path -UseBasicParsing
Import-Module $download_path
Install-OpenTelemetryCore
```

Additional commands.

```powershell
# List all available commands
Get-Command -Module OpenTelemetry.DotNet.Auto
```

`To monitor Dotnet Applications hosted in IIS, execute the below command`

```text
Register-OpenTelemetryForIIS
```

`Add below environment variables to start monitor both .NET Framework and .NET Core applications.`

```
TEXT
COR_ENABLE_PROFILING=1
COR_PROFILER={918728DD-259F-4A6A-AC2B-B85E1B658318}
COR_PROFILER_PATH=C:\Program Files\OpenTelemetry .NET AutoInstrumentation\win-
x64\OpenTelemetry.AutoInstrumentation.Native.dll
CORECLR_ENABLE_PROFILING=1
CORECLR_PROFILER={918728DD-259F-4A6A-AC2B-B85E1B658318}
CORECLR_PROFILER_PATH=C:\Program Files\OpenTelemetry .NET AutoInstrumentation\win-
x64\OpenTelemetry.AutoInstrumentation.Native.dll
DOTNET_ADDITIONAL_DEPS=C:\Program Files\OpenTelemetry .NET AutoInstrumentation\AdditionalDeps
DOTNET_SHARED_STORE=C:\Program Files\OpenTelemetry .NET AutoInstrumentation\store
DOTNET_STARTUP_HOOKS=C:\Program Files\OpenTelemetry .NET
AutoInstrumentation\net\OpenTelemetry.AutoInstrumentation.StartupHook.dll
OTEL_DOTNET_AUTO_HOME=C:\Program Files\OpenTelemetry .NET AutoInstrumentation
OTEL_DOTNET_AUTO_INSTALL_DIR=C:\Program Files\OpenTelemetry .NET AutoInstrumentation
OTEL_DOTNET_AUTO_LOGS_CONSOLE_EXPORTER_ENABLED=true
OTEL_DOTNET_AUTO_METRICS_CONSOLE_EXPORTER_ENABLED=true
OTEL_DOTNET_AUTO_TRACES_CONSOLE_EXPORTER_ENABLED=true
OTEL_DOTNET_AUTO_ENTITYFRAMEWORKCORE_SET_DBSTATEMENT_FOR_TEXT=true
OTEL_DOTNET_AUTO_SQLCLIENT_SET_DBSTATEMENT_FOR_TEXT=true
OTEL_EXPORTER_OTLP_ENDPOINT=http://localhost:4418
OTEL_SERVICE_NAME=<APPLICARE_AGENT_NAME>
```

Note: `<APPLICARE_AGENT_NAME>`: Provide a unique, descriptive name that will help you identify this specific container or application within the Applicare monitoring console.

`After the above settings restart the .NET application` or IIS.

The collected traces will be shown in Server Analyzer -> Telemetry Traces screen in Applicare console.

