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DumpMinitool LOLBIN

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Raw

DumpMinitool.exe LOLBIN

This binary can be used as a LOLBIN as described [here](#)

Additional Info

- The arguments flags are meaningless only the order is important. This means as long as you provide exactly 6 flags and their value the binary will still work. Here are the exact positions for reference:

```
// Usage: --file <fullyResolvedPath> --processId <processId> --dumpType <dumpType>

args[0] // --file
args[1] // <fullyResolvedPath>
args[2] // --processId
args[3] // <processId>
args[4] // --dumpType
args[5] // <dumpType>
```

- The `processId` argument must be an integer as it's type casted before storage

```
int processId = int.Parse(args[3], (IFormatProvider) CultureInfo.InvariantCulture);
```

- There are three types of dump type options:

```
internal enum MiniDumpTypeOption
{
    Full,
    WithHeap,
    Mini,
}
```

- The dump type value are case sensitive since they are used in a switch case for comparison

```
switch (type)
{
    case MiniDumpTypeOption.Full:
        // Code
    case MiniDumpTypeOption.WithHeap:
        // Code
    case MiniDumpTypeOption.Mini:
        // Code
    default:
        // Code
}
```

- The binary is using `MiniDumpWriteDump` from `Dbghelp.dll`.
- If a dump type other than the ones specified in the ENUM is provided. It will default to using the `MiniDumpNormal` - https://learn.microsoft.com/en-us/windows/win32/api/minidumpapiset/ne-minidumpapiset-minidump_type

```
switch (type)
{
    case MiniDumpTypeOption.Full:
        minidumpType = MiniDumpWriteDump.NativeMethods.MinidumpType.MiniDumpWithDataSegs | M
        break;
    case MiniDumpTypeOption.WithHeap:
        minidumpType = MiniDumpWriteDump.NativeMethods.MinidumpType.MiniDumpWithDataSegs | M
        break;
    case MiniDumpTypeOption.Mini:
        minidumpType = MiniDumpWriteDump.NativeMethods.MinidumpType.MiniDumpWithThreadInfo;
```

```
        break;
    default:
        minidumpType = MiniDumpWriteDump.NativeMethods.MinidumpType.MinidumpNormal;
        break;
    }
    ...
    ...
    ...
[Flags]
    public enum MinidumpType : uint
    {
        MinidumpNormal = 0,
        MinidumpWithDataSegs = 1,
        MinidumpWithFullMemory = 2,
        ...
        ...
        ...
    }
```

- The dump is performed by calling `MiniDumpWriteDump` <https://learn.microsoft.com/en-us/windows/win32/api/minidumpapiset/nf-minidumpapiset-minidumpwritedump>

```
for (int index = 0; index < 5 && !MiniDumpWriteDump.NativeMethods.MinidumpWriteDump(proc
{
    int forLastWin32Error = Marshal.GetHRForLastWin32Error();
    if (forLastWin32Error != -2147024597)
        Marshal.ThrowExceptionForHR(forLastWin32Error);
}
```

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