

# Using Cluster Client Failover (CCF)

## A server application view (e.g. SQL Server, IIS, etc.)

Applicable for server applications that support failover clusters

Ensures server application can access its data files in the event of an unplanned failure of the server application cluster node

Server applications should:

- Use new API to register the application instance

- Call the API prior to opening any remote files

RegisterAppInstance API:

```
RegisterAppInstance(  
    __in HANDLE ProcessHandle,  
    __in GUID* AppInstanceId,  
    __in BOOL ChildrenInheritAppInstance  
);
```

Check to make sure open files are “persistent”

Persistence: A handle opened on a file share that supports transparent failover

GetFileInformationByHandleEx function:

```
GetFileInformationByHandleEx(  
    __in HANDLE hFile,  
    __in FILE_INFO_BY_HANDLE_CLASS  
    FileInformationClass,  
    __out LPVOID lpFileInformation,  
    __in DWORD dwBufferSize  
);
```

FILE\_REMOTE\_PROTOCOL\_INFO Structure

New flag:

REMOTE\_PROTOCOL\_INFO\_FLAG\_PERSISTENT\_HANDLE 0x4