

Reading Parts of a File



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SOLUTION ARCHITECT

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Application Log File

Thousands of lines of log data that is constantly appended



```
$ head application.log
```

Returns the *first* 10 lines of a file



```
$ tail application.log
```

Returns the *last* 10 lines of a file



Opening a File to Read



What Is a File Descriptor?



Open Files



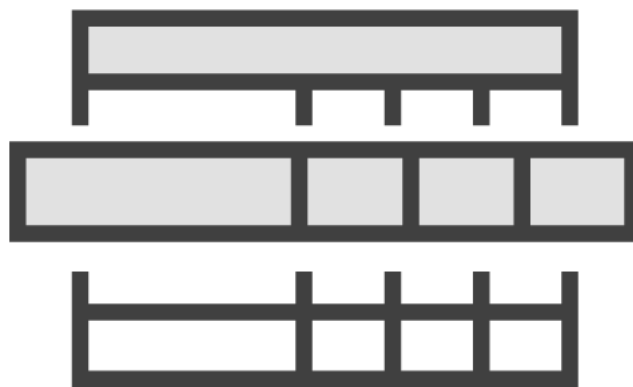
OS File Identifiers

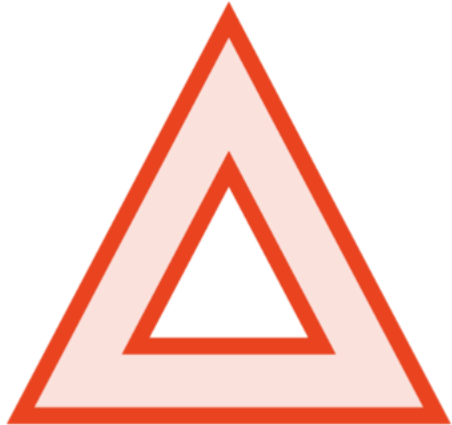
Integer

32-bit Handle



Opening a File





Operating systems have file limits



Reading a Chunk at a Time



Reading Parts a File Synchronously



The Importance of Closing Files





Make sure to call “close”





What about readFile?



async.read.js

No Need to Close

```
readFile("data.csv", "utf8", (err, data) => {  
  
});
```

Must Close

async.read.js

```
readFile(fd, "utf8", (err, data) => {  
  
});
```


Any time you have a file
descriptor, you are
responsible for closing the
file





Writing is not much different than reading

