Getting Started with Docker on Windows

WHAT IS A CONTAINER?

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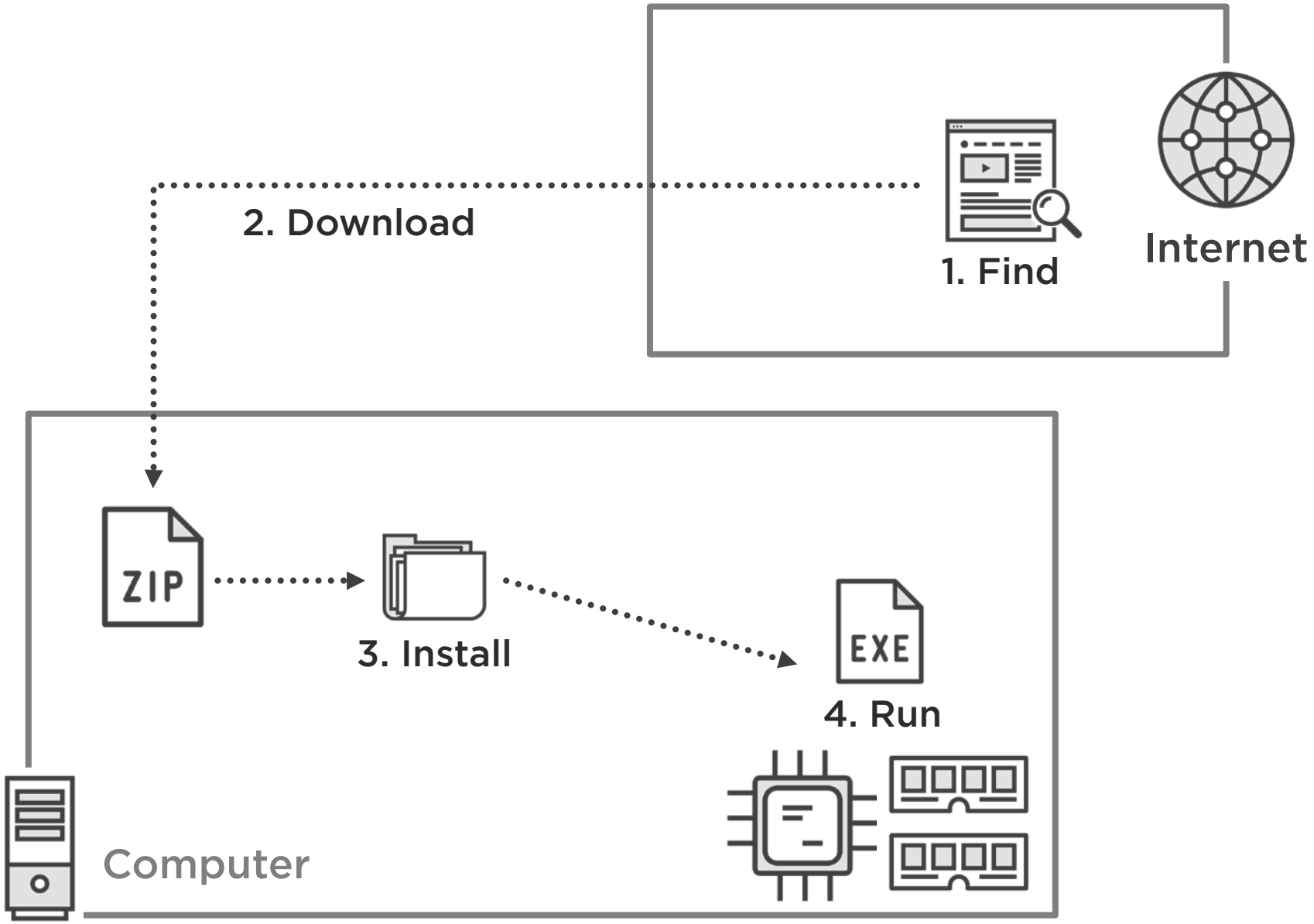
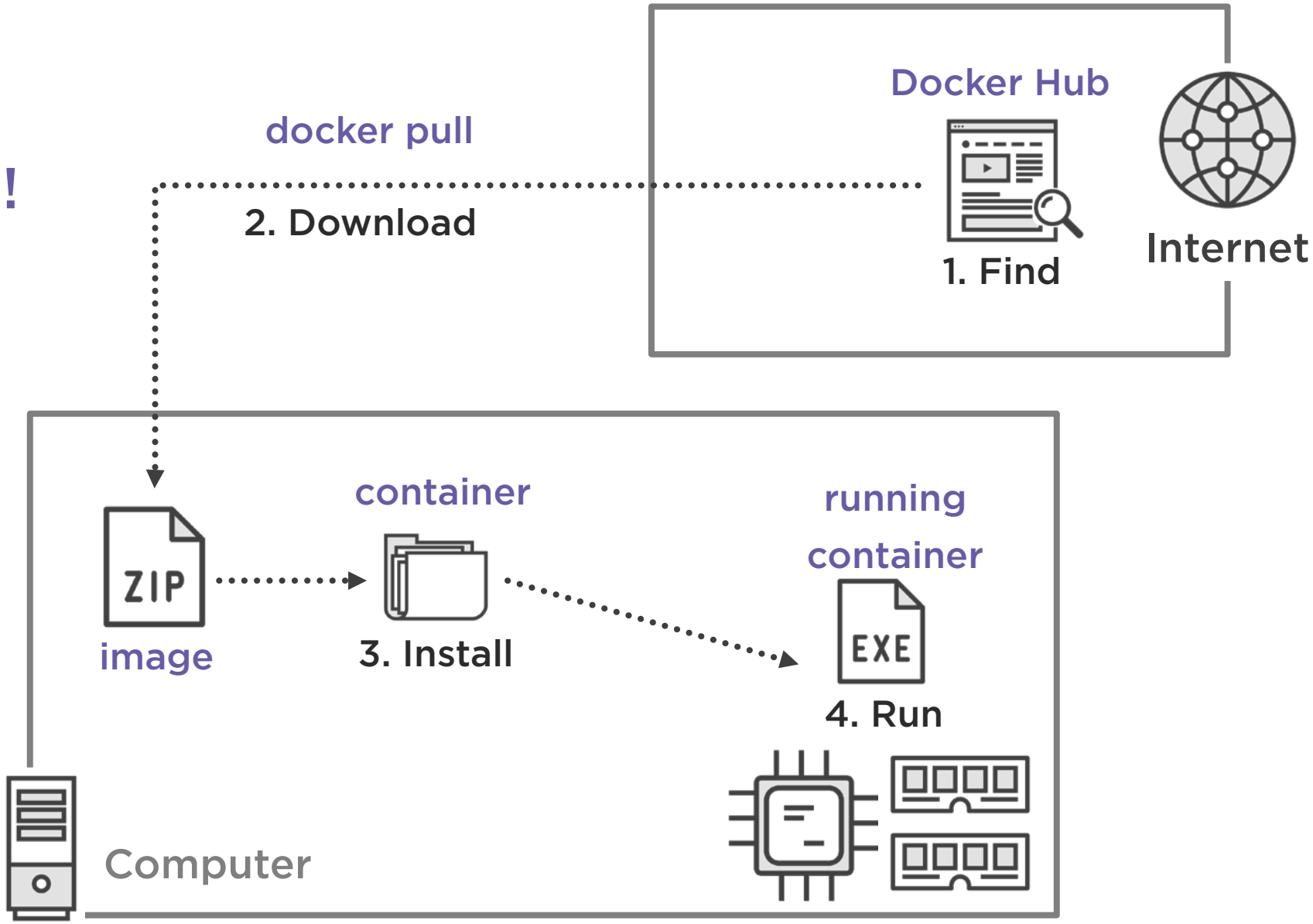
Docker simplifies software

If you already know how to use software, then you already understand Docker

What are the **biggest challenges** you face **using software**?


Internet
1. Find
2. Download
ZIP
3. Install
EXE
4. Run
Computer

docker run
does all of this!



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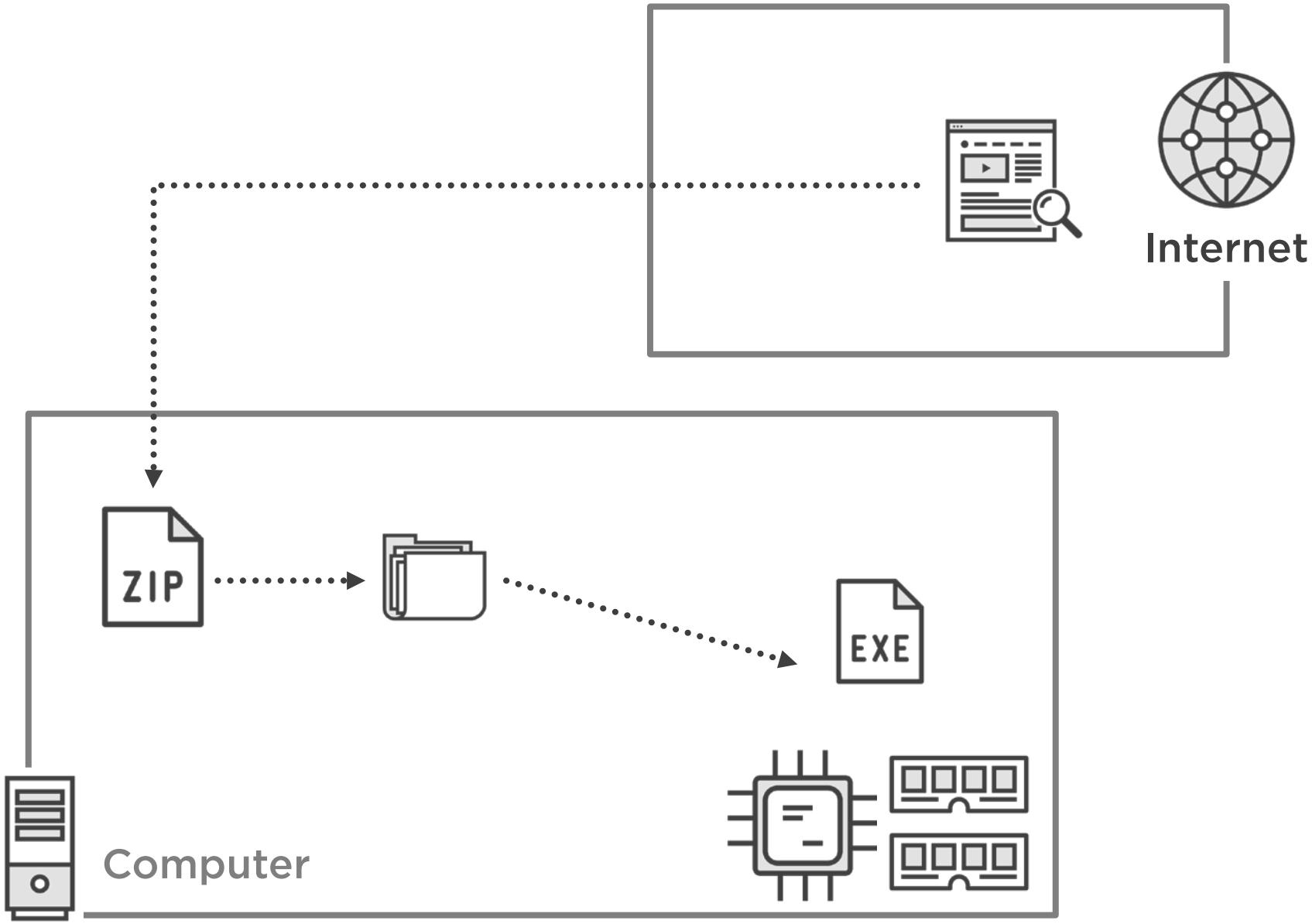

Challenges with Software Discovery

Where?

- App store
- Package manager
- Standalone website

Metadata & stats

Trust

- http
- Code itself

Download availability

Payment

Challenges with Software Installation

Snowflakes

Compatible? Cross-Platform?

- OS, OS version/build, CPU arch
- macOS Sierra 10.12 x64
- Win10 Anniversary Edition x64

Format

- Source
- Standalone executable
- Executable + bundled libraries
- Executable + shared libraries / runtime

Installers, package managers, manual...

- What did it install?!

Updates (auto updaters) & uninstall

Configuration Management nightmare

Challenges with Running Software

Helpful documentation

Where is it? PATH?

Starting and stopping

Service registration

Licenses

Installing and running dependencies

Security & sandboxing

Breaking changes

- OS updates
- Shared library updates