

# Using and Managing Jenkins Plugins

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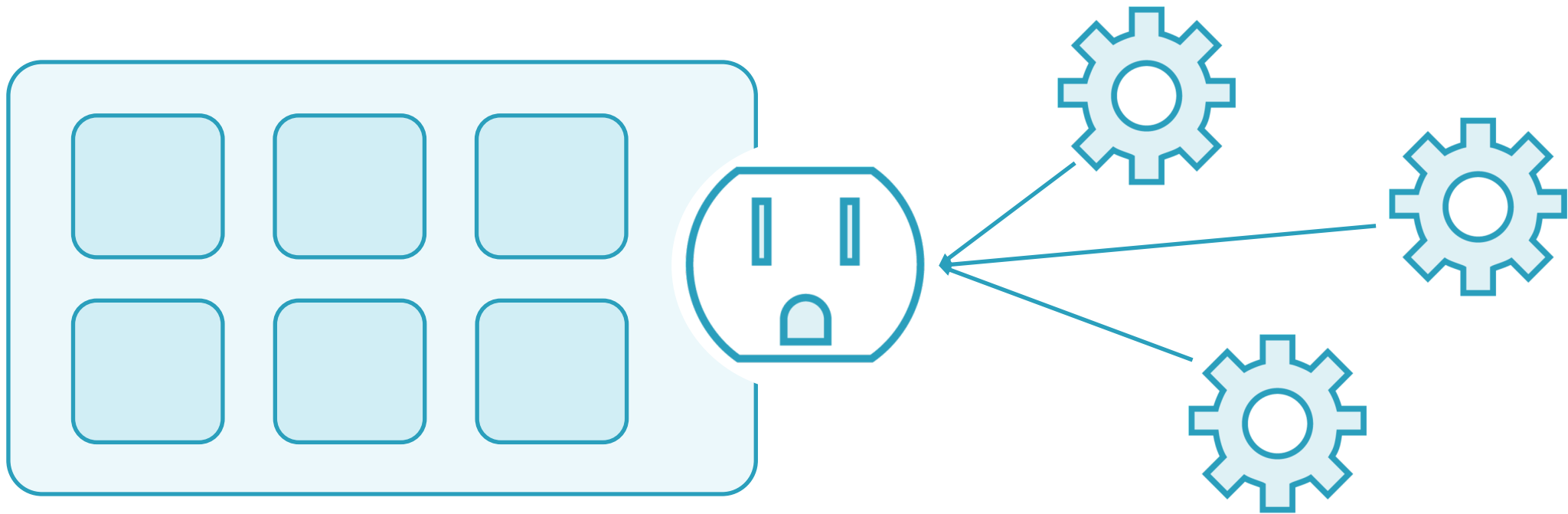
## UNDERSTANDING JENKINS AND THE PLUGIN MODEL



**Elton Stoneman**

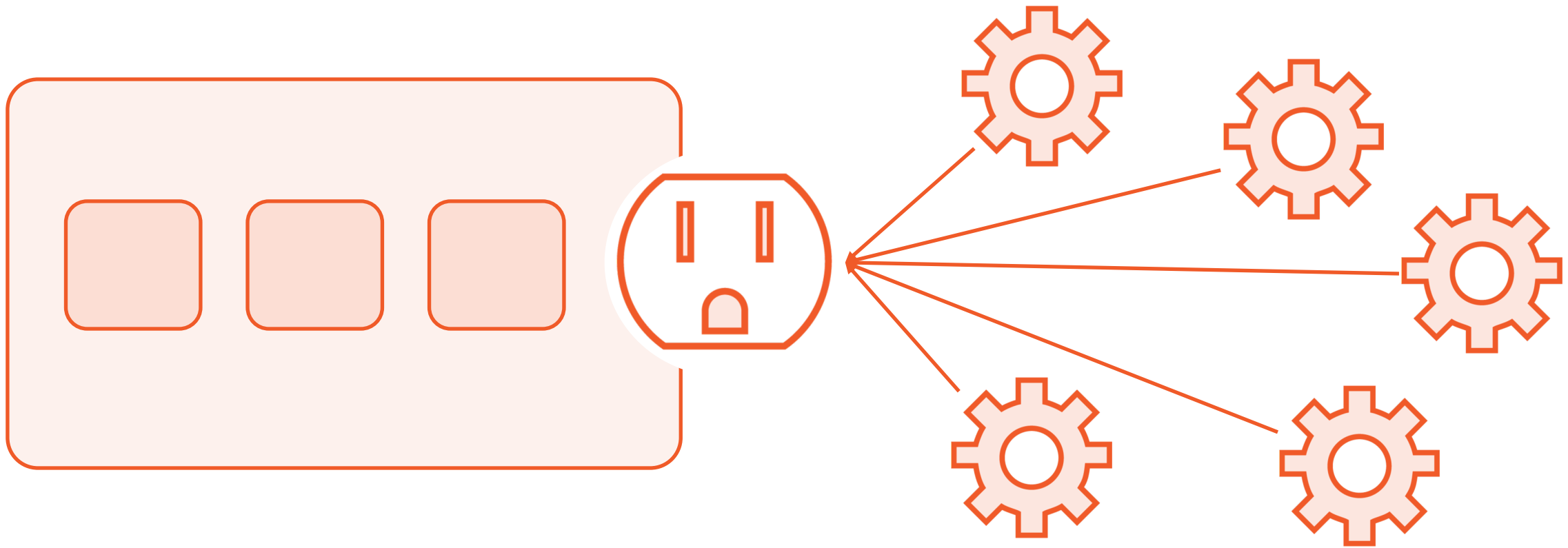
CONSULTANT & TRAINER

@EltonStoneman | [blog.sixeyed.com](http://blog.sixeyed.com)



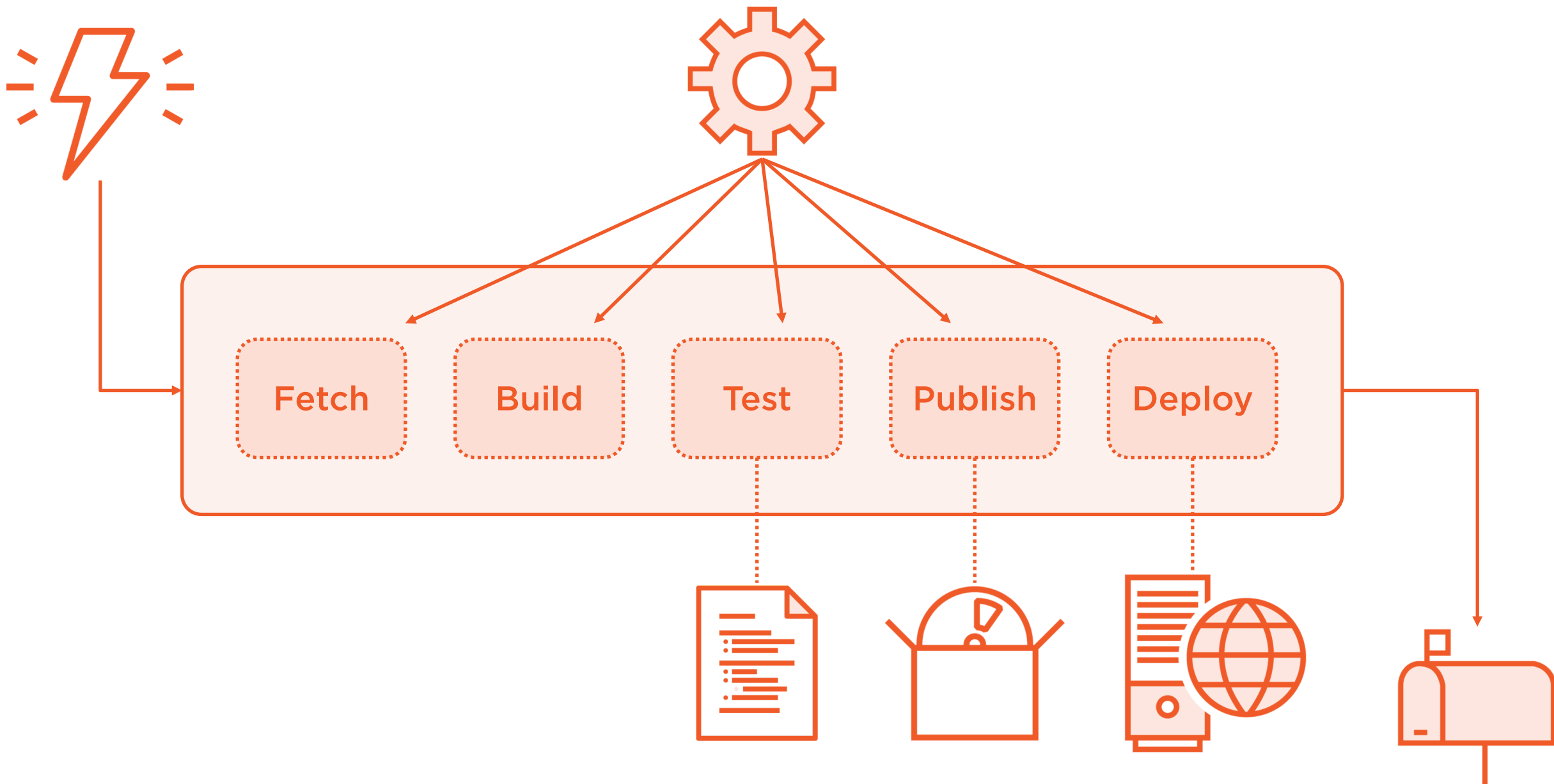
- Text editor
- Filesystem browser
- Terminal
- Job runner

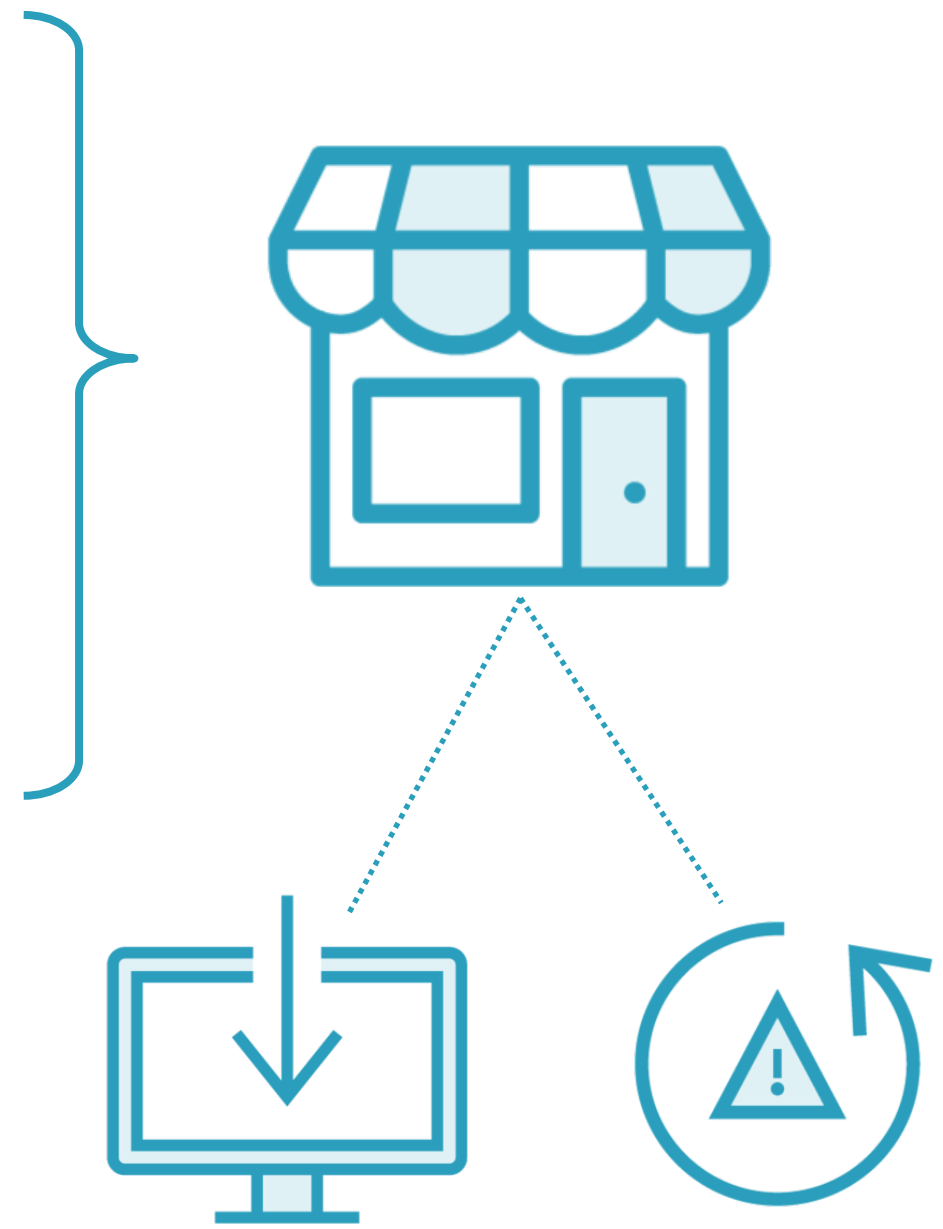
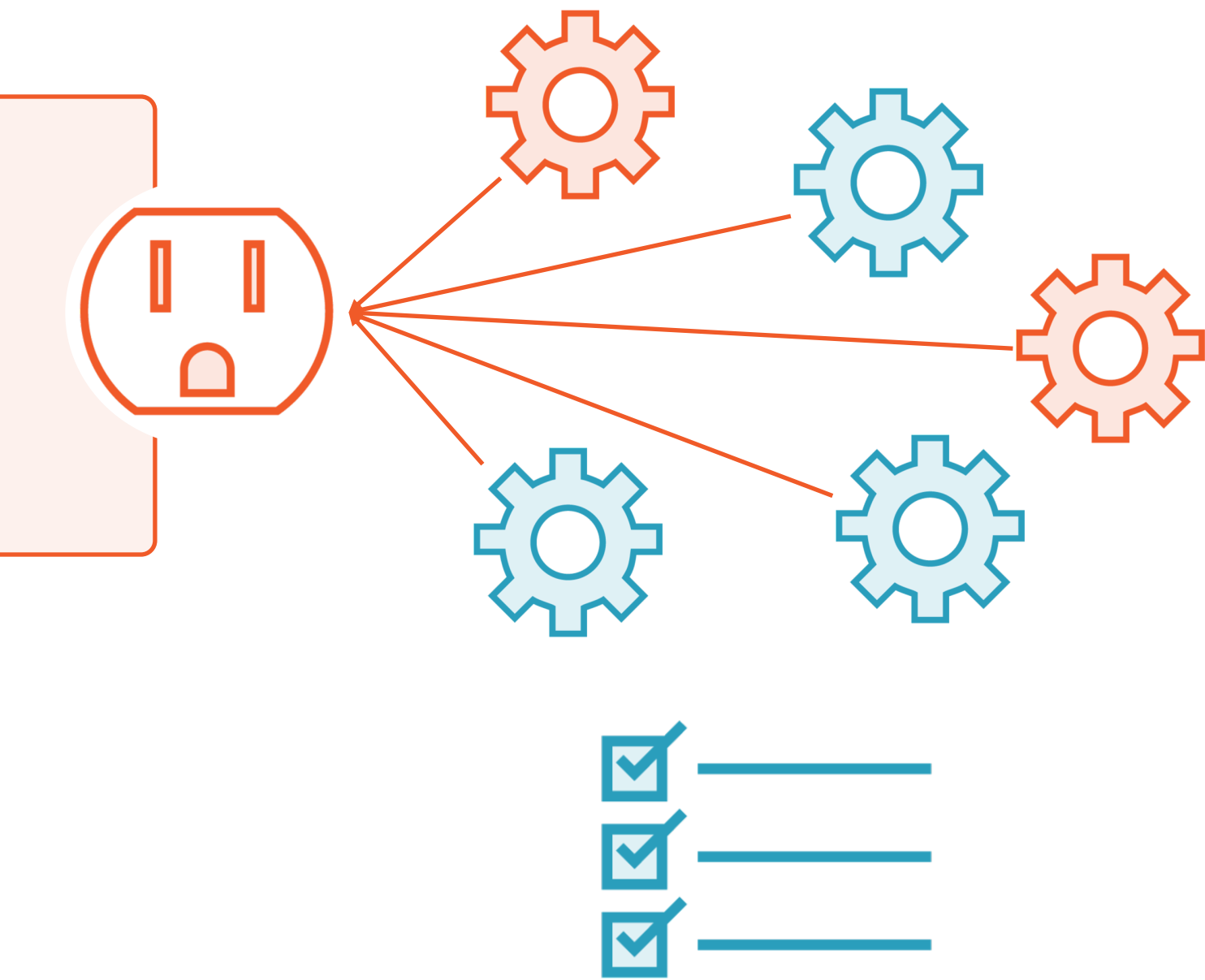
- .NET, Go, Java ...
- Git, Subversion, TFS ...
- Docker, Kubernetes, Azure ...
- Formatting, linting, debugging ...

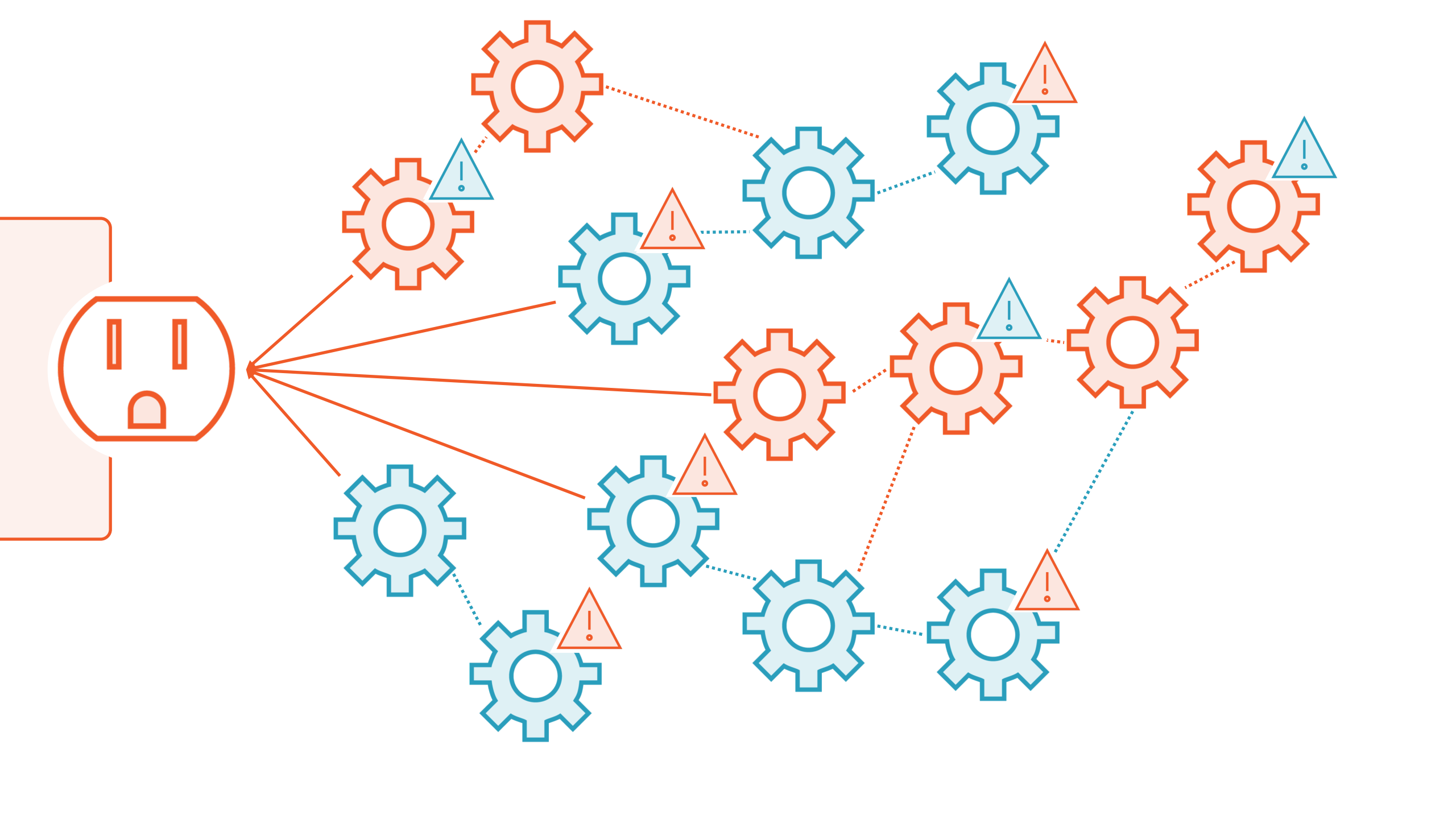


- Web UI
- Job scheduler
- Script executor
- ... that's it

- Languages & platforms
- Source control
- Build tools & reporting
- Notifications & publishing









Understanding  
Jenkins and the  
Plugin Model



Installing and  
Using Plugins



Writing Custom  
Plugins



Managing and  
Upgrading  
Plugins

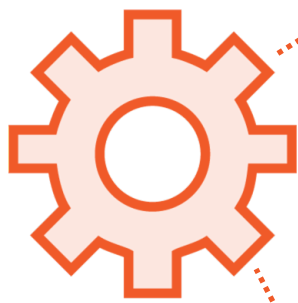
# Demo



## Jenkins - naked

- Fresh install of Jenkins
- No plugins
- Basic capabilities

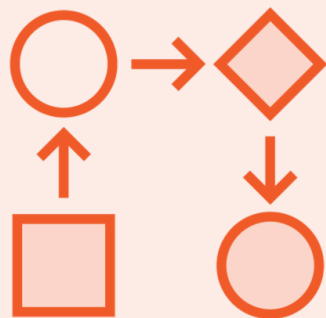




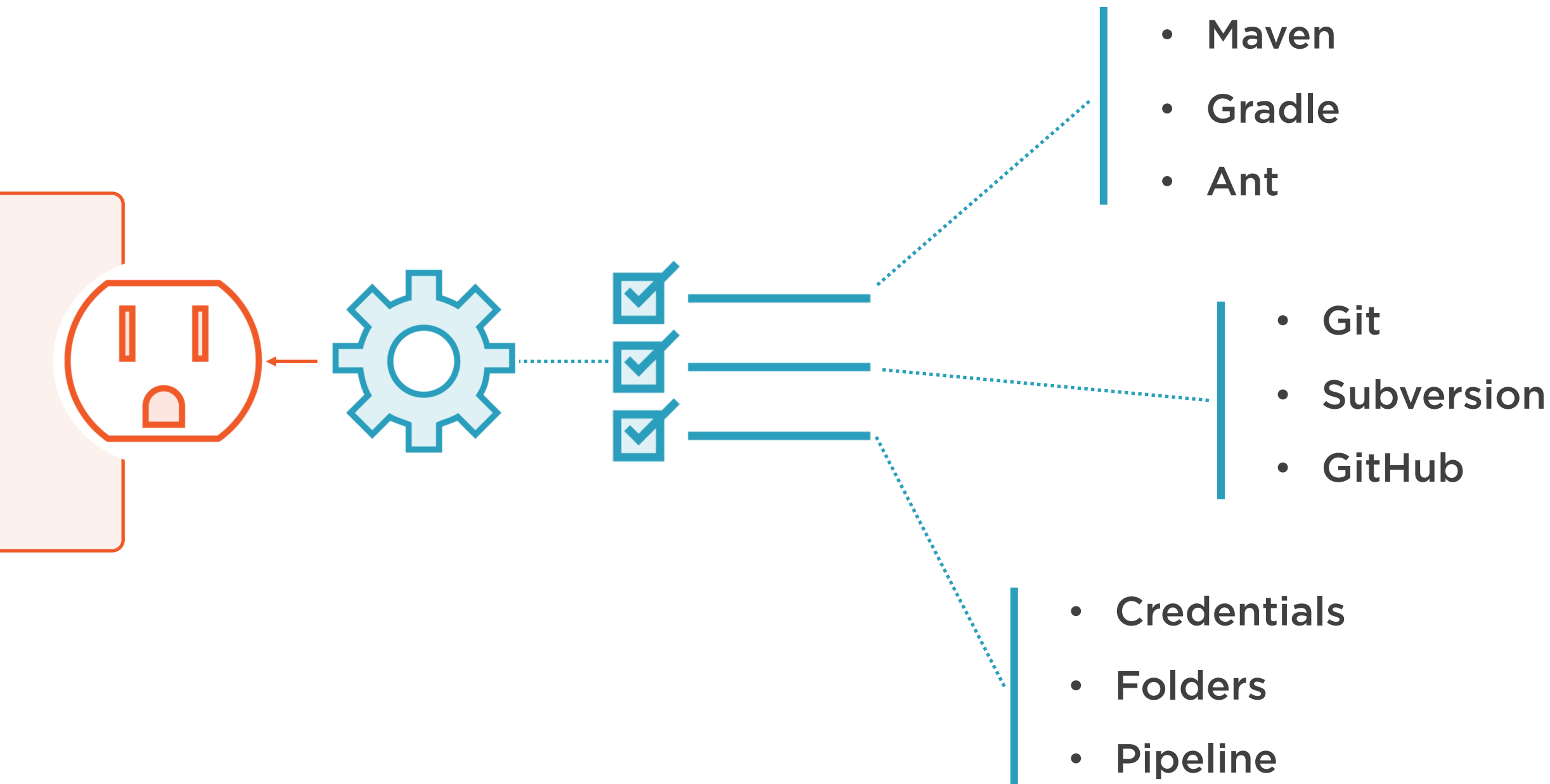
**Top-level menu**  
**New resources**  
**Configuration**



**Job types**  
**Job parameters**  
**Stage features**



**Job triggers**  
**Job stages**  
**Notifications**

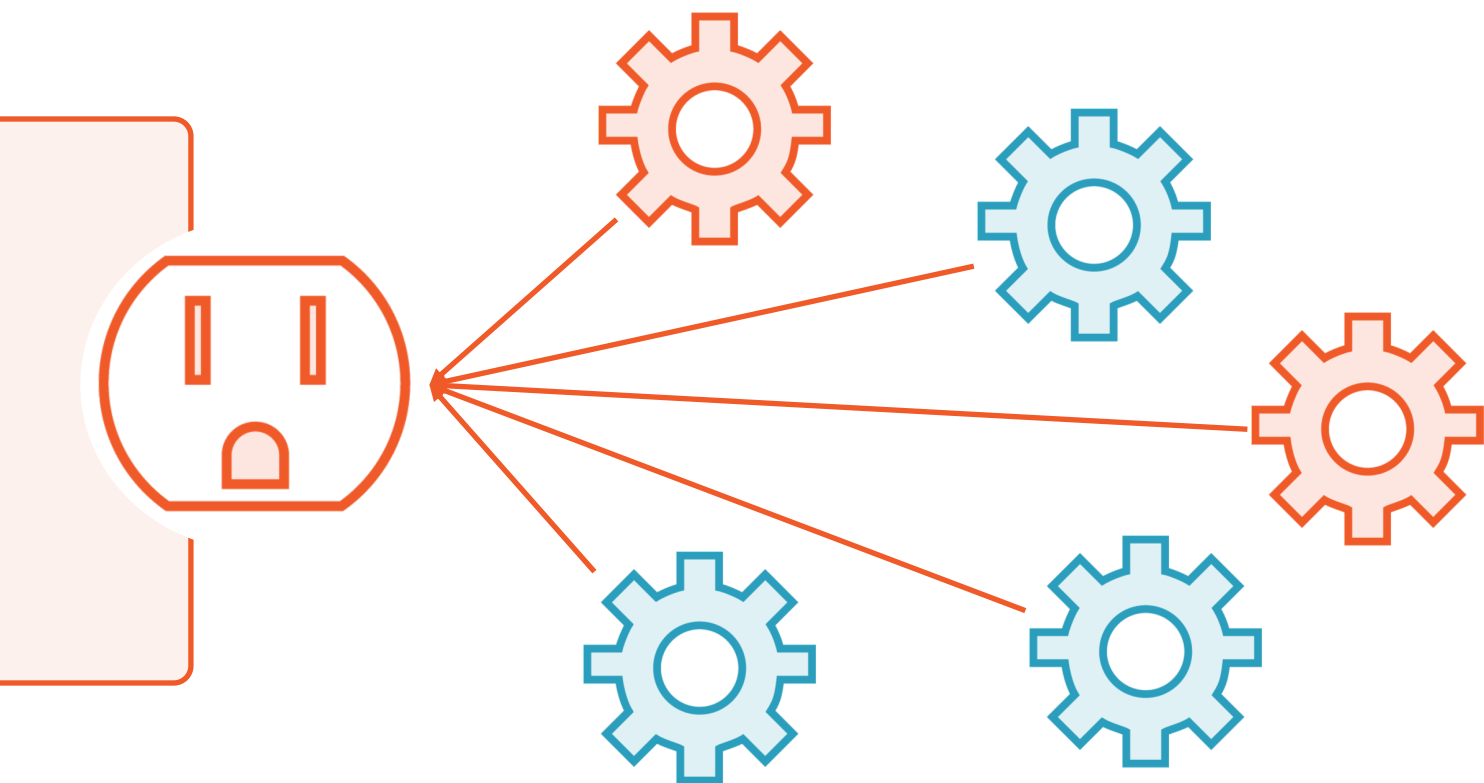


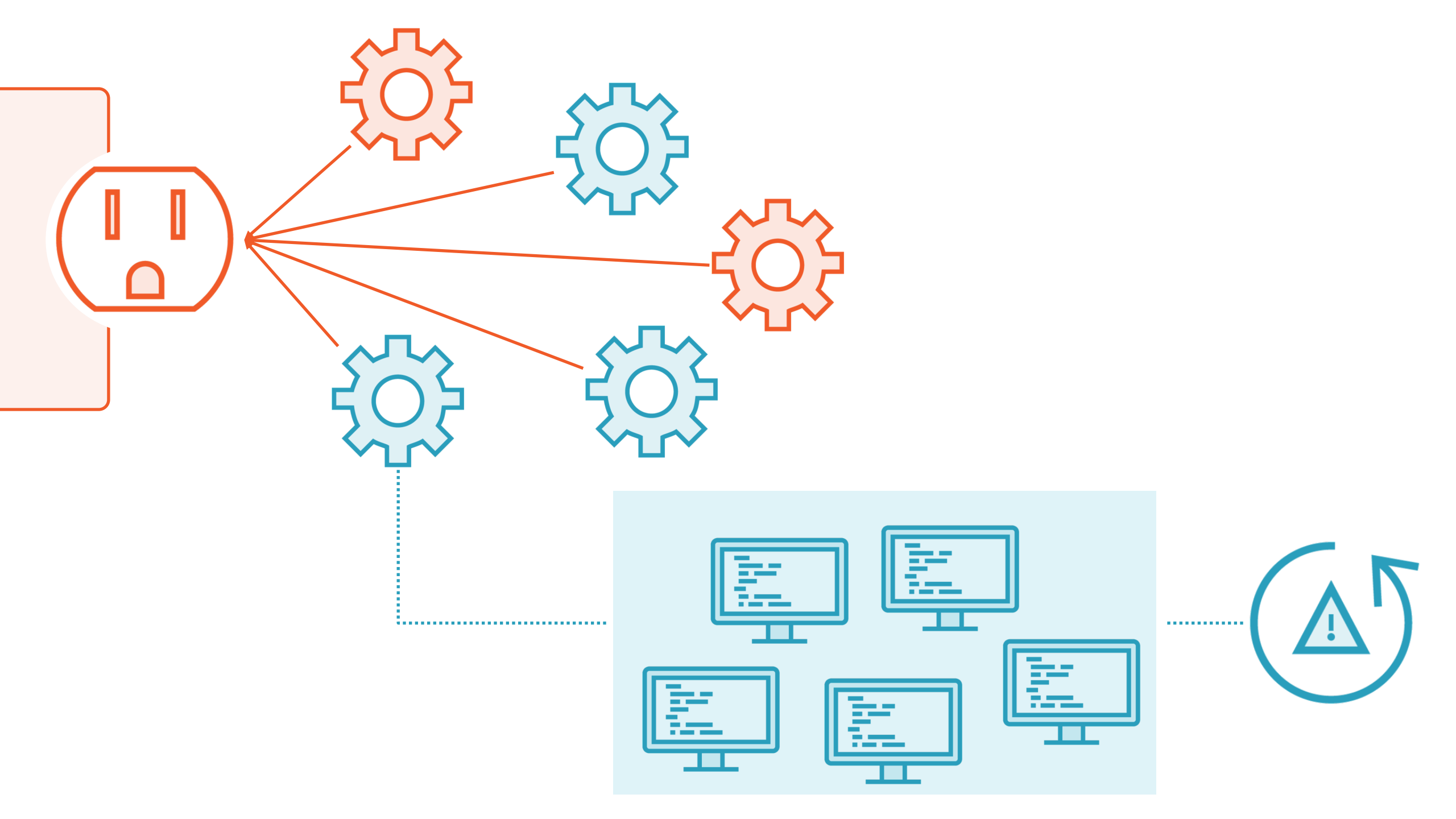
# Demo

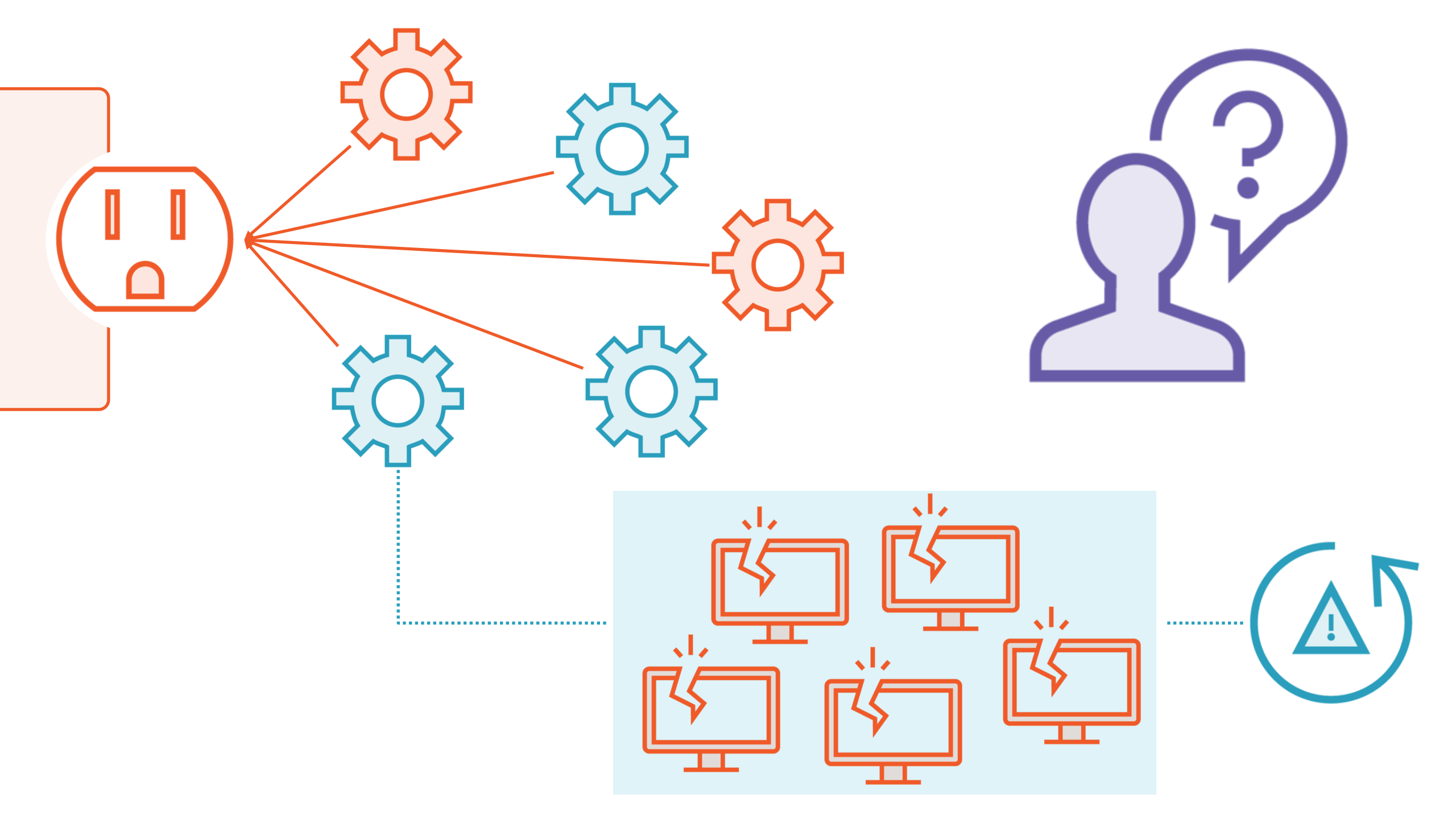


## Jenkins with suggested plugins

- Fresh install of Jenkins
- Install all recommended plugins
- See extension points





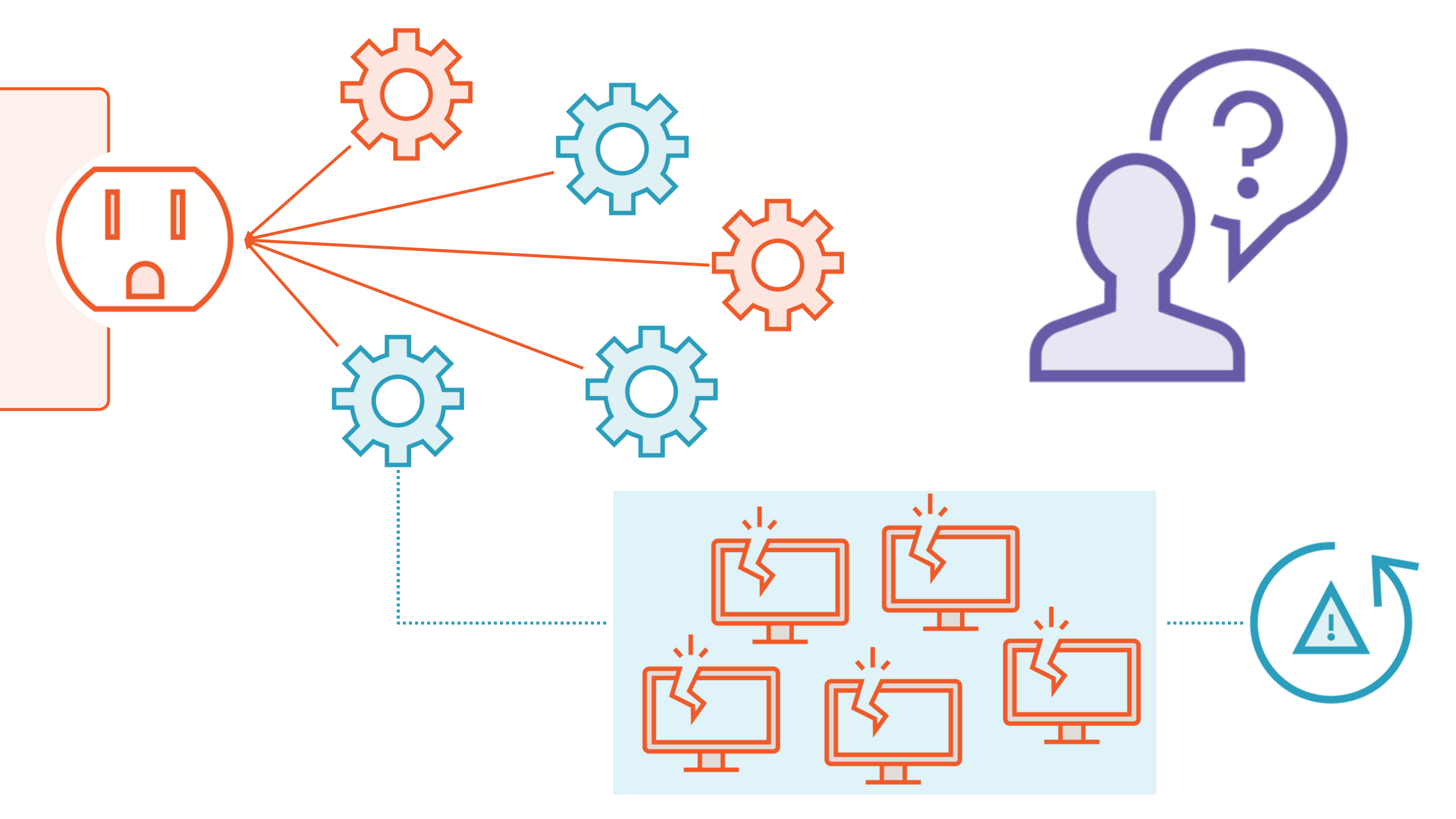


# Demo



## Managing plugin updates

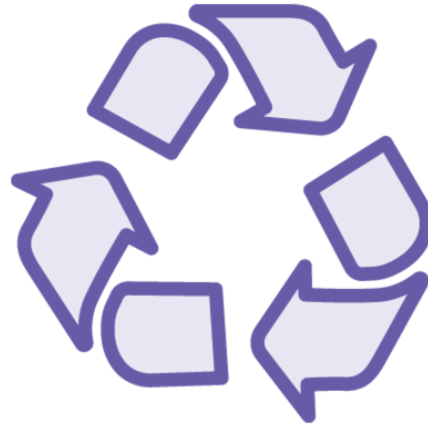
- Existing install of Jenkins
- Outdated plugins
- Notification and management

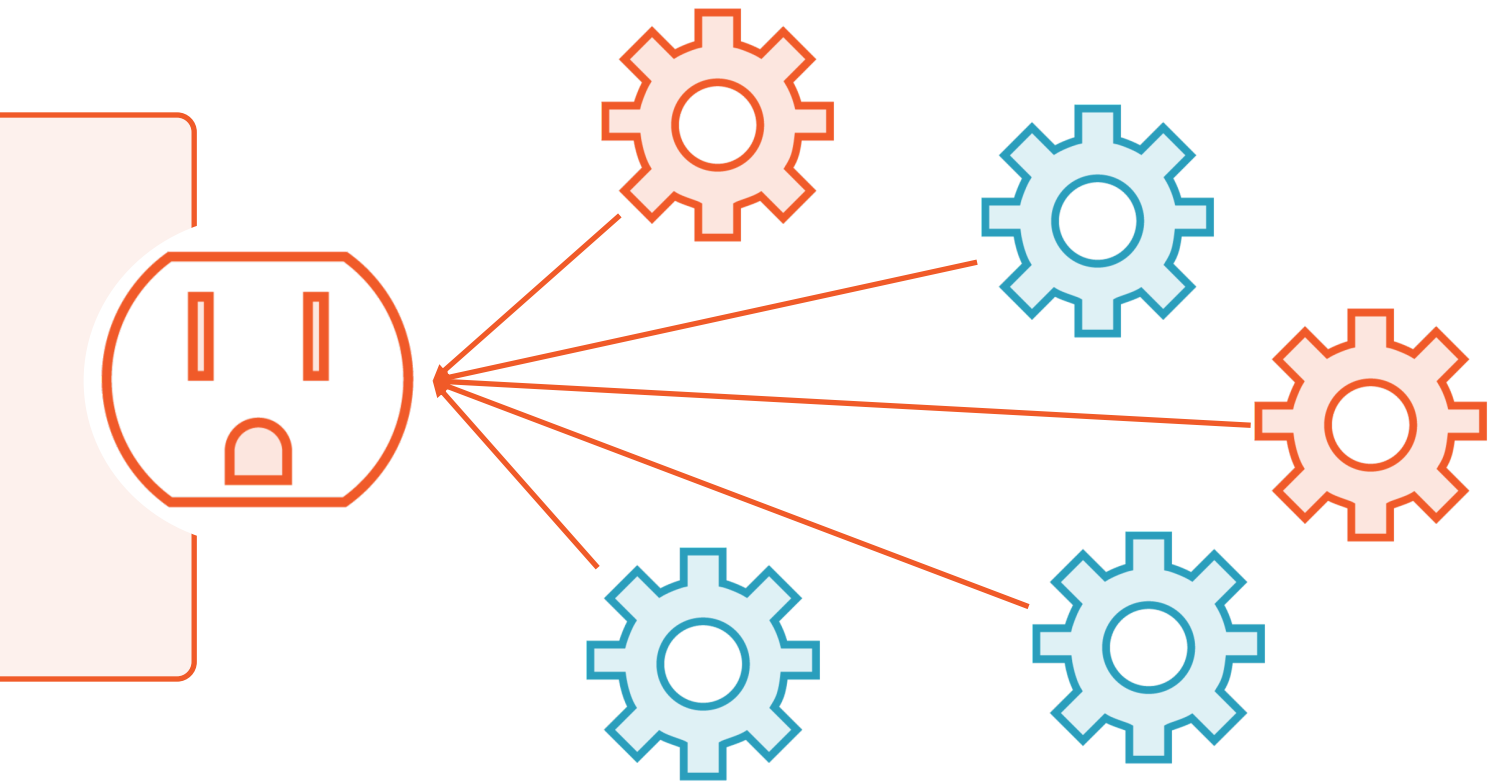


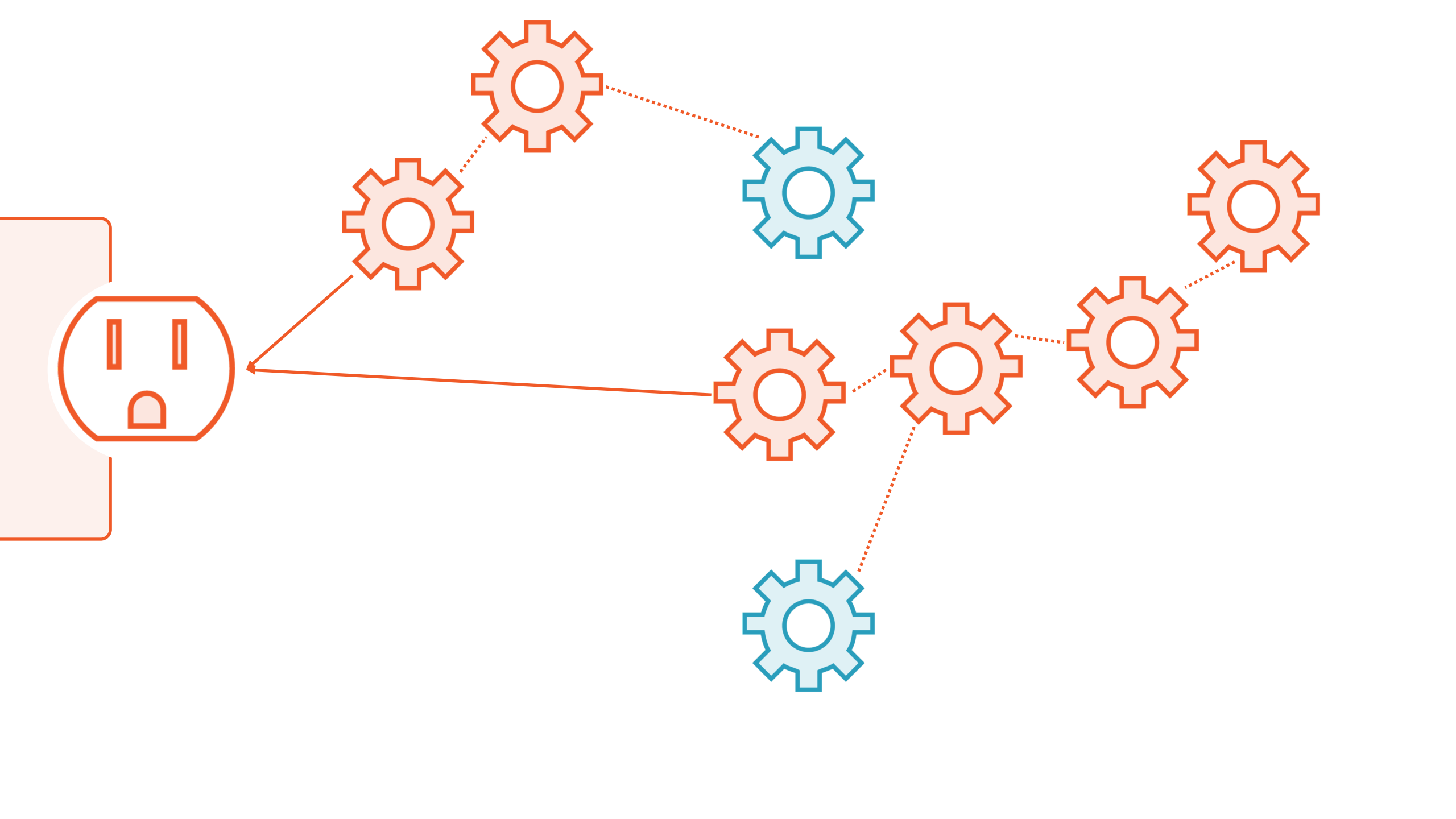




Reduce surface area

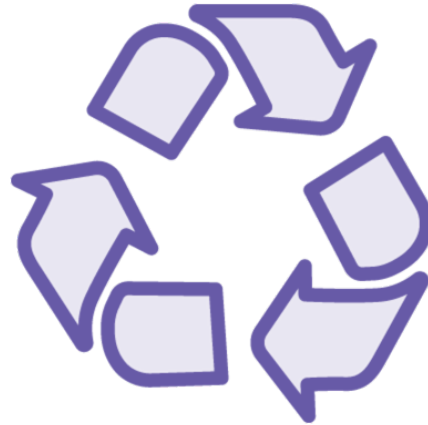






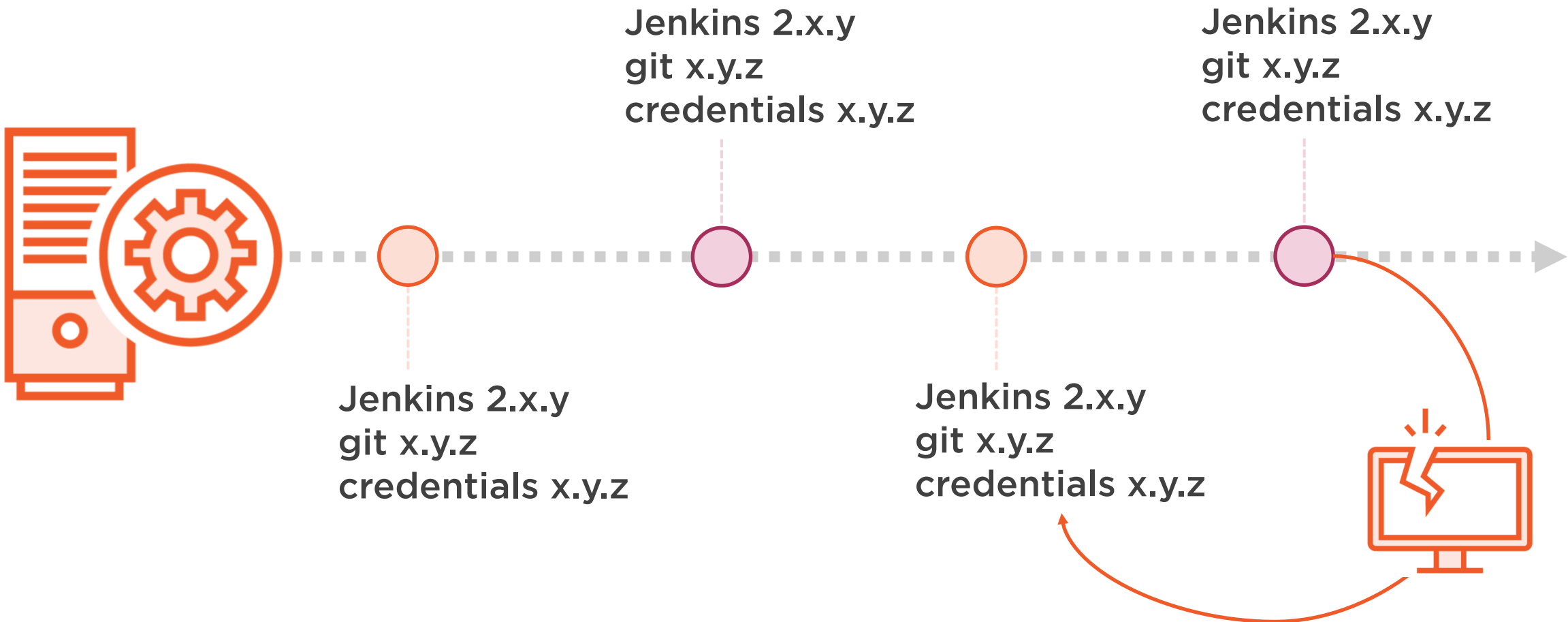


Reduce surface area



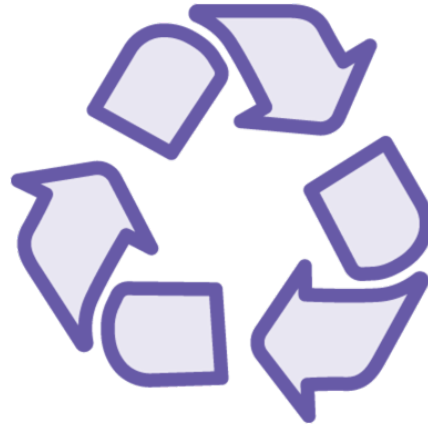
Repeatable deployment







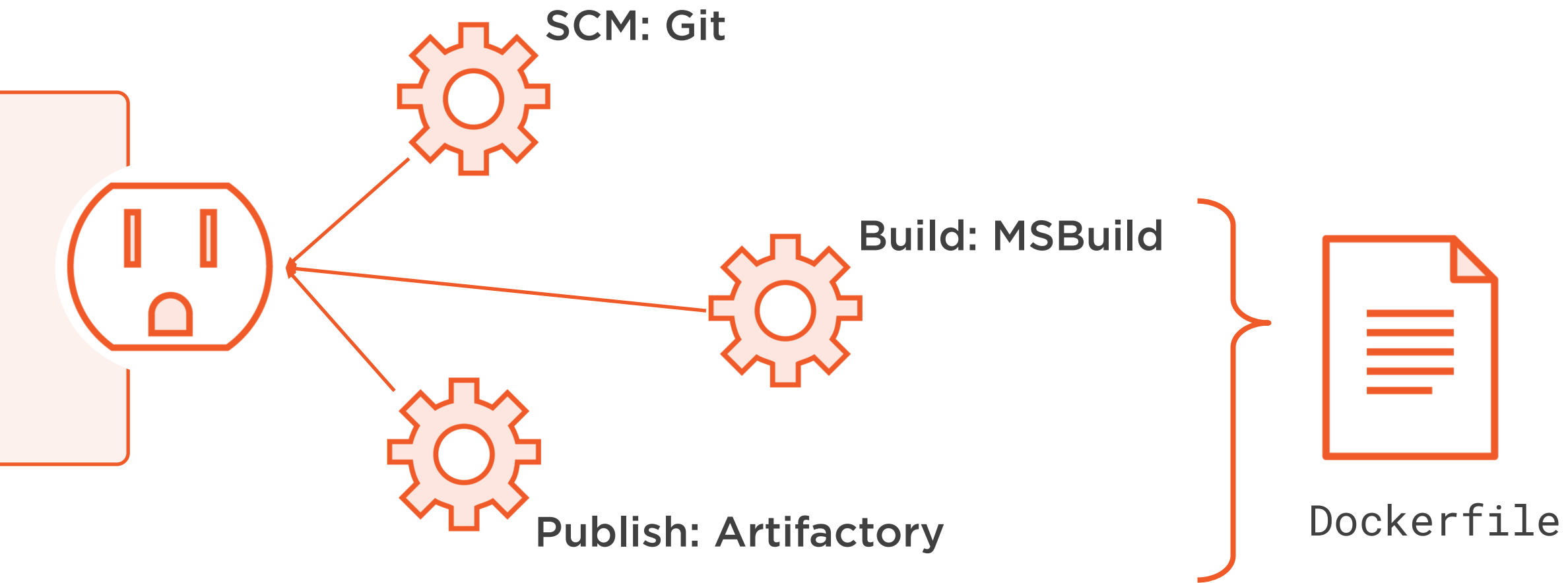
Reduce surface area



Repeatable deployment



Minimize requirements



# Modernizing .NET Framework Apps with Docker

by Elton Stoneman

Docker can help you bring your existing applications into the modern world. This course teaches you how to run full .NET applications in Windows containers, modernize the architecture, and deploy to the cloud.



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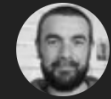
Discussion

Learning Check

Related Courses

Docker isn't just for greenfield microservices applications, you can take full .NET Framework applications and run them in containers with no code changes. That's a great starting point for modernizing the architecture and moving to the cloud. In this course, Modernizing .NET Framework Apps with Docker, you'll learn how to efficiently run .NET applications and create a more modern architecture utilizing Docker. First, you'll discover how to package and run .NET apps in Docker containers on Windows. Then, you'll explore how to evolve the application architecture by breaking features out into separate containers. Finally, you'll delve into taking your modernized app to production on Azure. By the end of the course, you'll understand how Docker works on Windows and what Docker can do for your existing .NET landscape. Software required: Docker.

Course author



Elton Stoneman

Elton is a 10-time Microsoft MVP, author, trainer and speaker. He spent most of his career as a consultant working in Microsoft technologies, architecting and delivering complex solutions for...

Course info

Level Intermediate

Rating ★★★★★ (70)

My rating ★★★★★

Duration 3h 42m

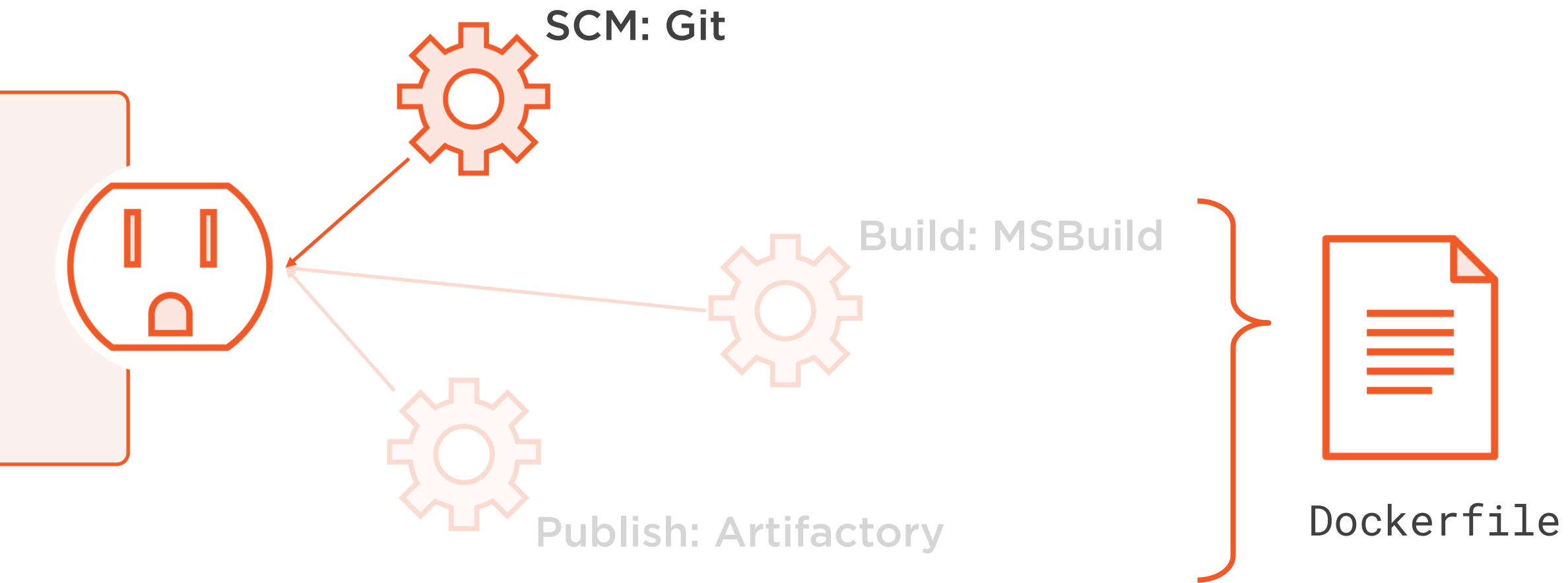
Released 28 Dec 2017

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# Demo



## Jenkins with minimal plugins

- Fresh install of Jenkins
- A curated plugin list
- Exploring new features

# Summary



## **Jenkins is an automation server**

- Core features define & run jobs
- All useful functionality in plugins

## **Plugins extend the whole stack**

- Composite Web UI
- Job definition and runtime

## **Dependencies can sprawl**

- Minimize plugin requirements
- Reduce upgrade risk

Up Next:  
Installing and Using Plugins

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