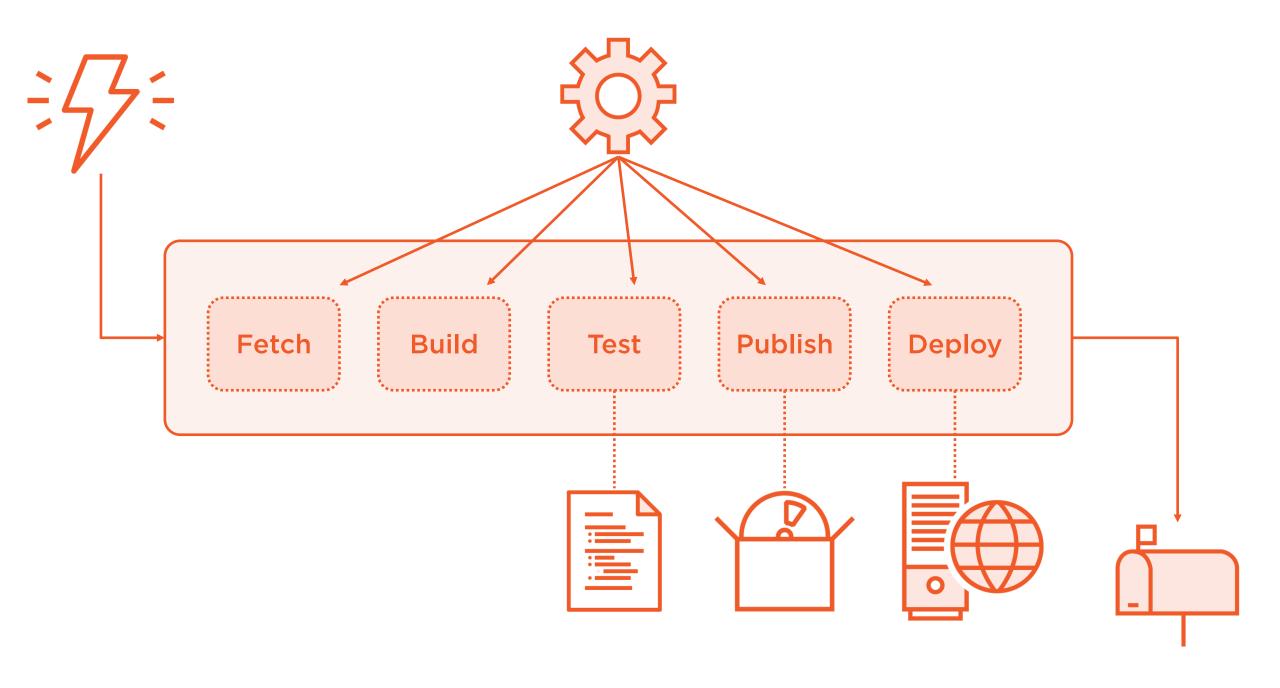
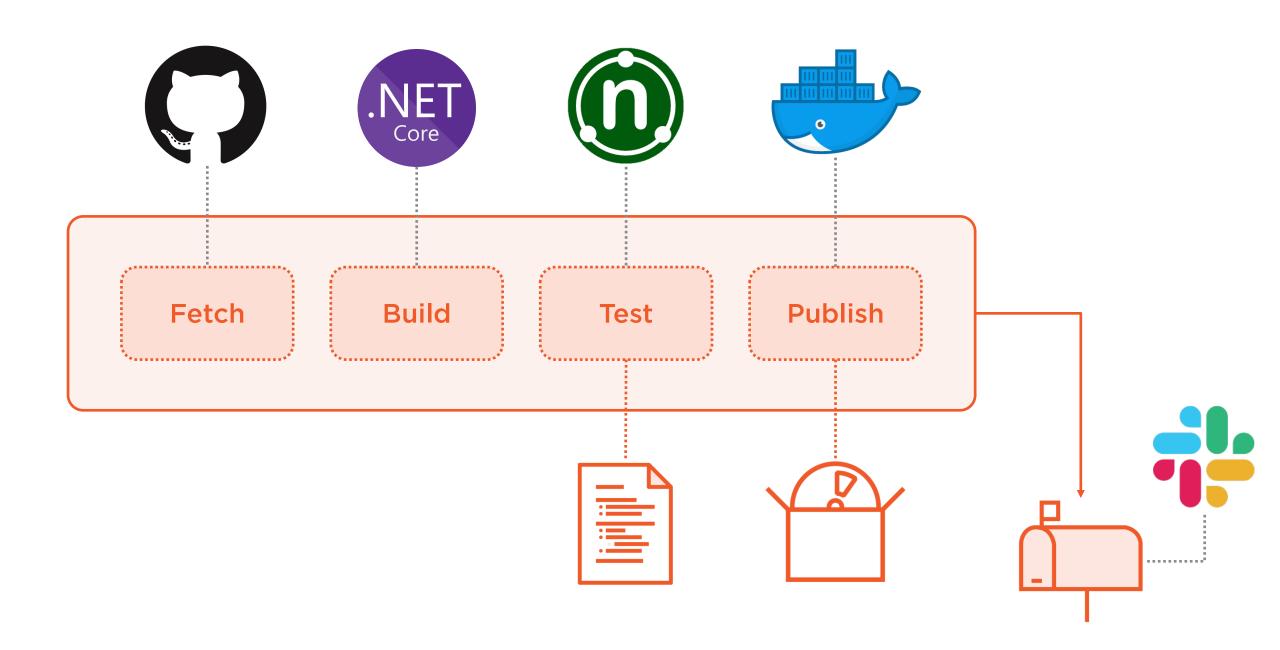
# Installing and Using Plugins



Elton Stoneman CONSULTANT & TRAINER

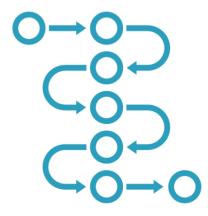
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Standard approach

Freestyle job
Shell steps
Manual plugin setup

Portable scripts

Freestyle job
Scripted steps
Offline plugin setup

**Self-contained** 

Pipeline job
Declarative steps
Automated plugin setup



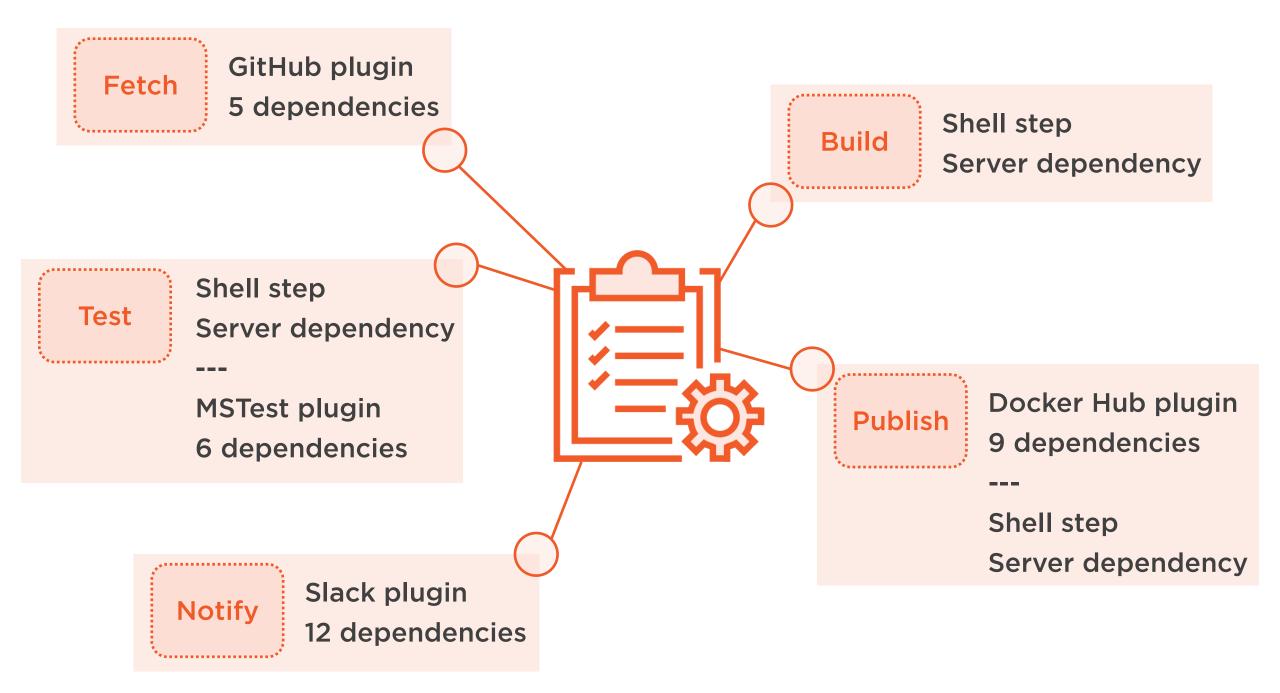
#### Standard Jenkins build

- Install required plugins
- Freestyle job
- Shell steps & plugins



#### **Publish and notify**

- Install required plugins
- Publish to Docker Hub
- Notify using Slack





#### Freestyle job

- Stored in Jenkins
- Disconnected from dev workflow

#### **Shell steps**

- Silent tool dependencies
- Incorrect pipeline order

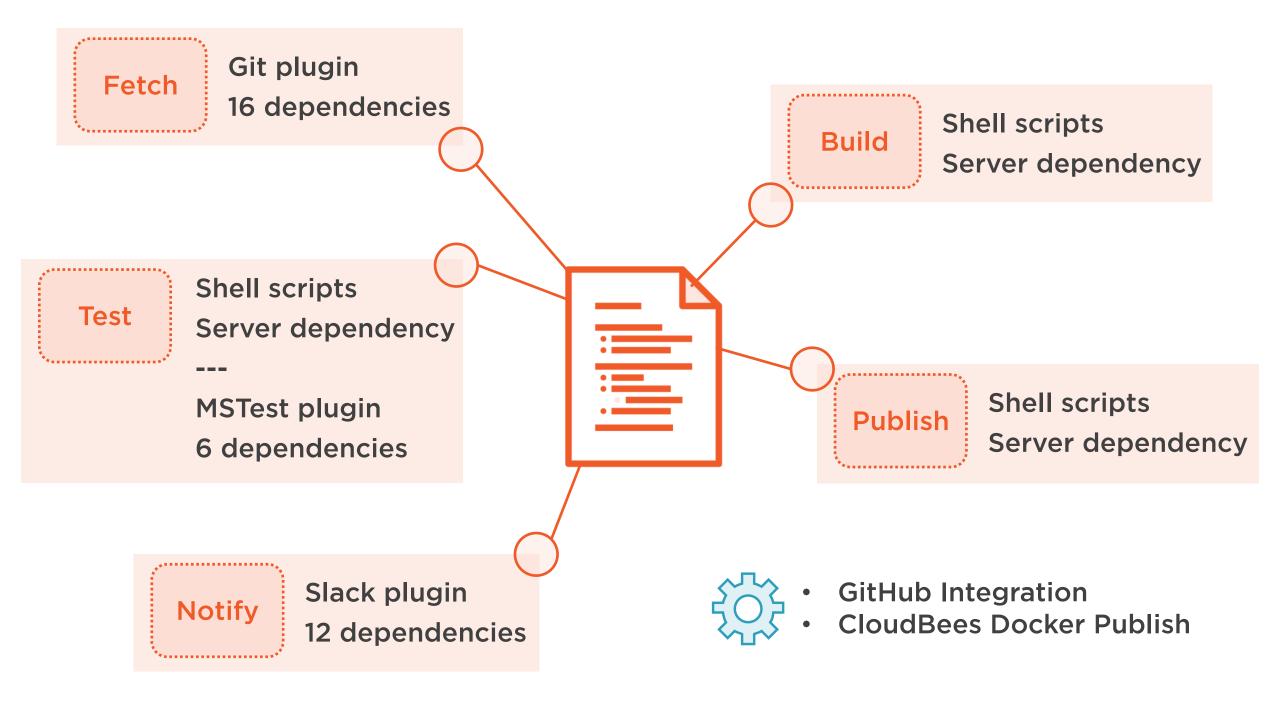
#### **Plugins**

- Manual installation
- Unused features
- Workarounds for issues
- Duplication of effort



#### Jenkins build with portable scripts

- Automate plugin install
- Freestyle job
- CI scripts & plugins





#### Freestyle job

- Stored in Jenkins

#### **Shell scripts**

- Tool dependencies
- Pipeline config in scripts
- Shared with dev workflow
- Duplication of effort

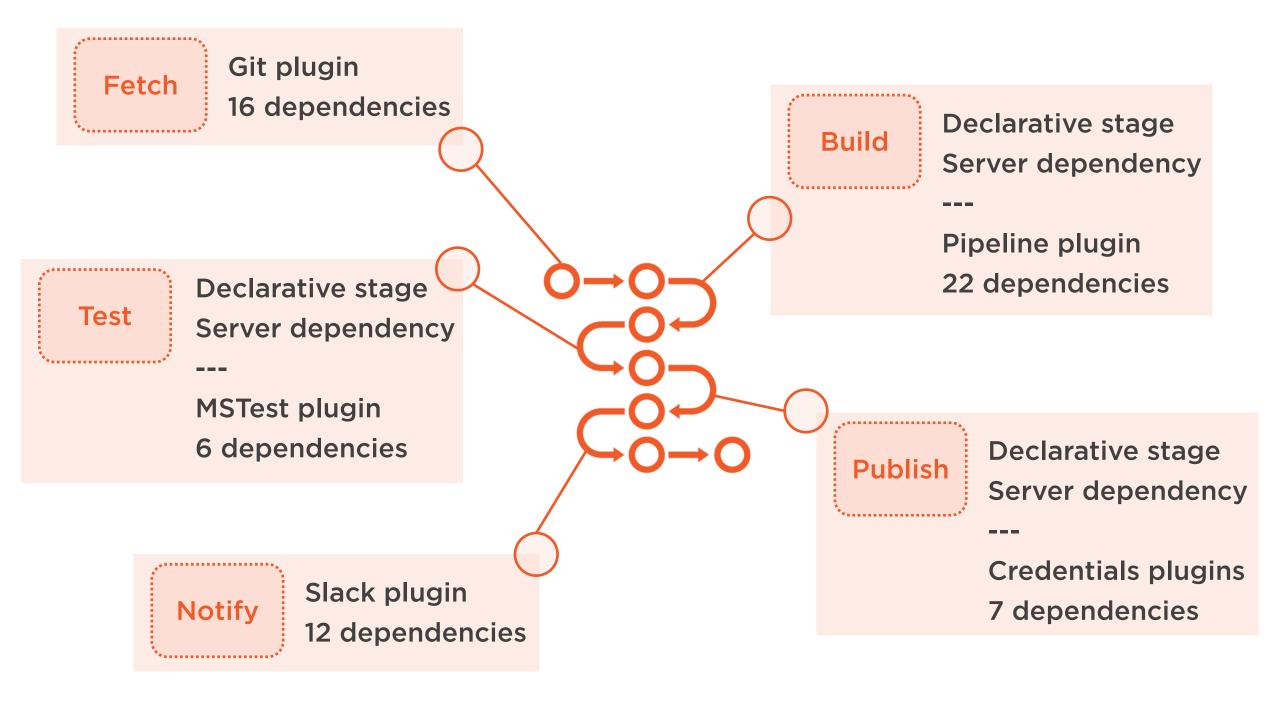
#### **Plugins**

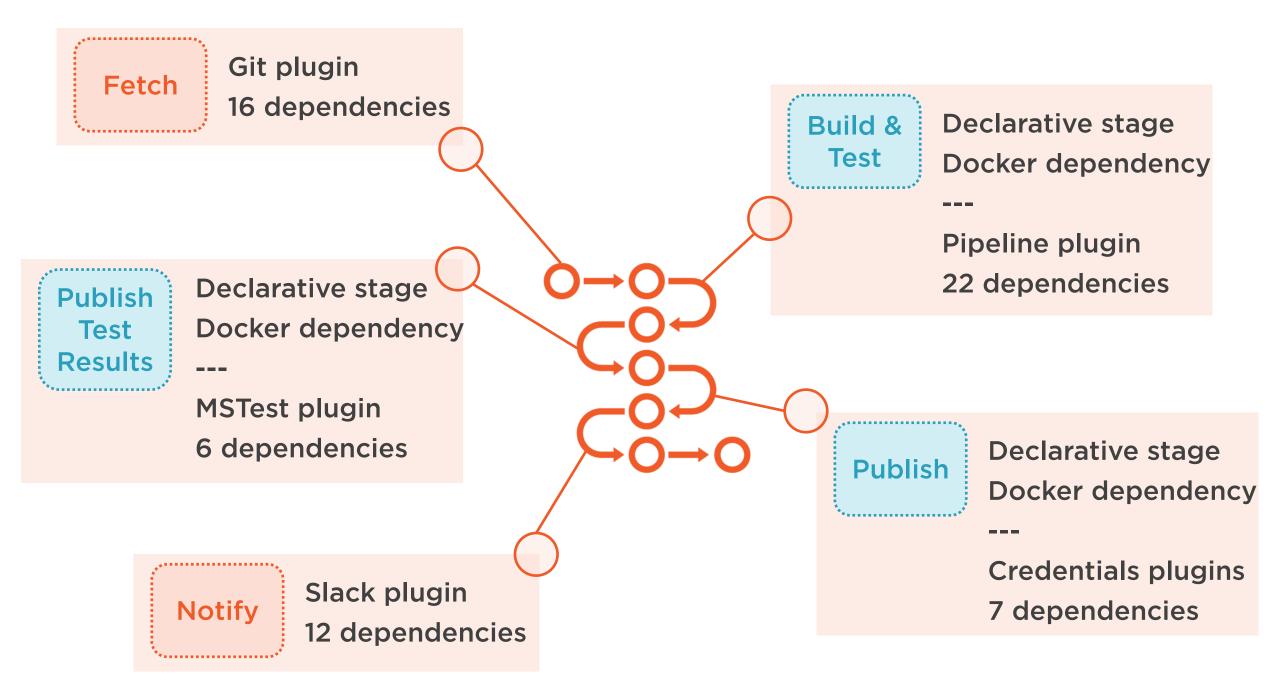
- Dependency sprawl
- Manual dependency management

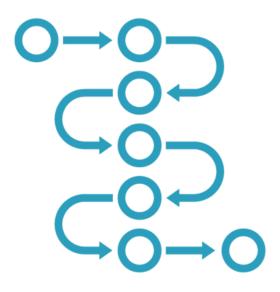


#### Self-contained Jenkins build

- Improved plugin automation
- Pipeline job with Jenkinsfile
- Declarative steps & plugins







#### Pipeline job

- Stored in SCM

#### **Declarative stages**

- Tool dependencies
- Shared with dev workflow
- Centralized toolchain

#### Plugins

- Minimal requirements
- Dependency sprawl
- Automated setup

## Summary



#### Classic freestyle jobs

- Maintenance burden
- Decouple CI from dev workflow
- Encourage plugin dependency

#### New pipeline jobs

- Jenkinsfile in SCM
- CI process & dependencies clear
- Encourage plugins for integration

#### Plugin management

- Multiple installation options
- Automation & repeatability

## Up Next: Writing Custom Plugins