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ARCAD
SOFTWARE





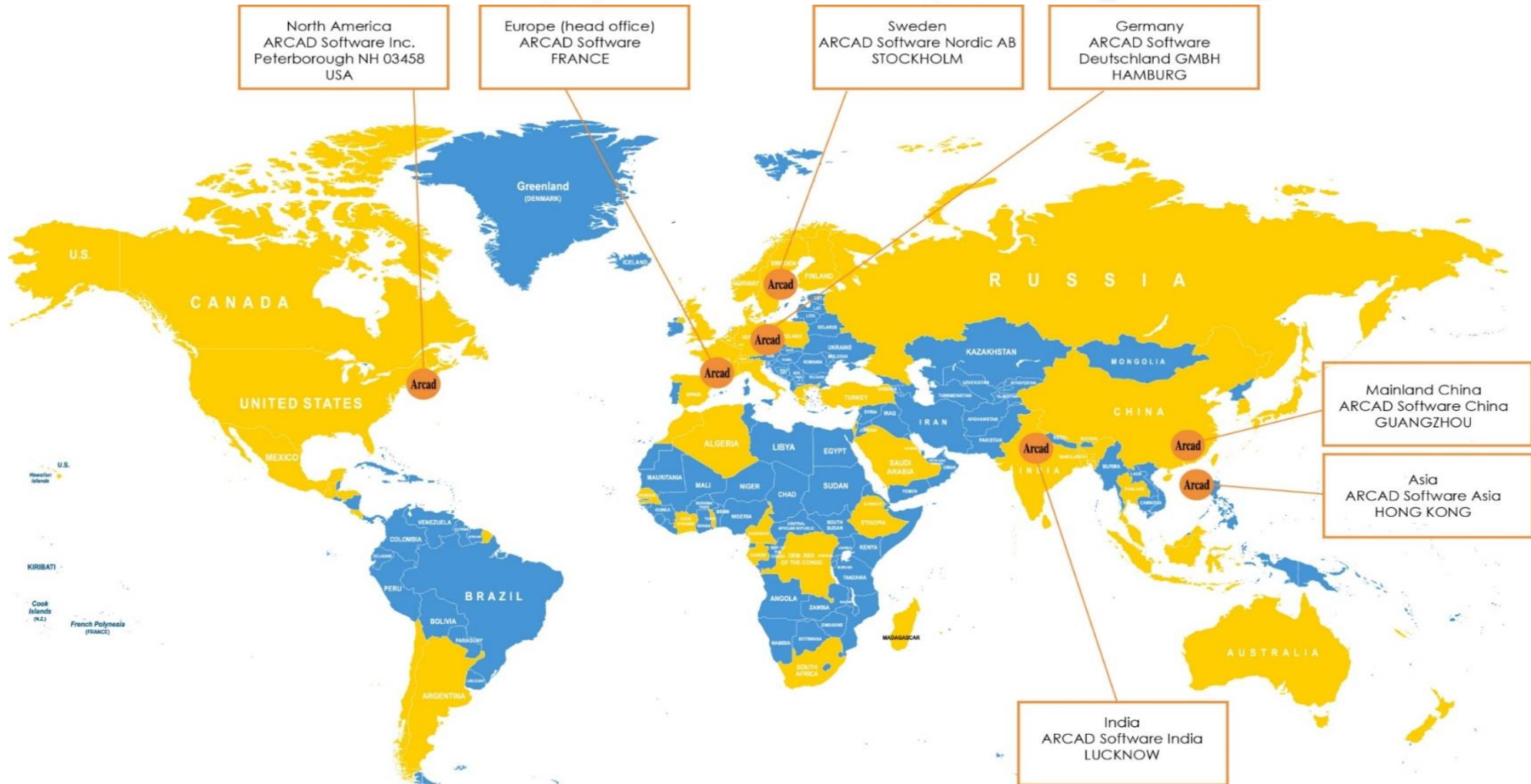
Presented by: Maurice MARREL: Solutions Consultant
mmarrel@arcadsoftware.com

About the ARCAD group

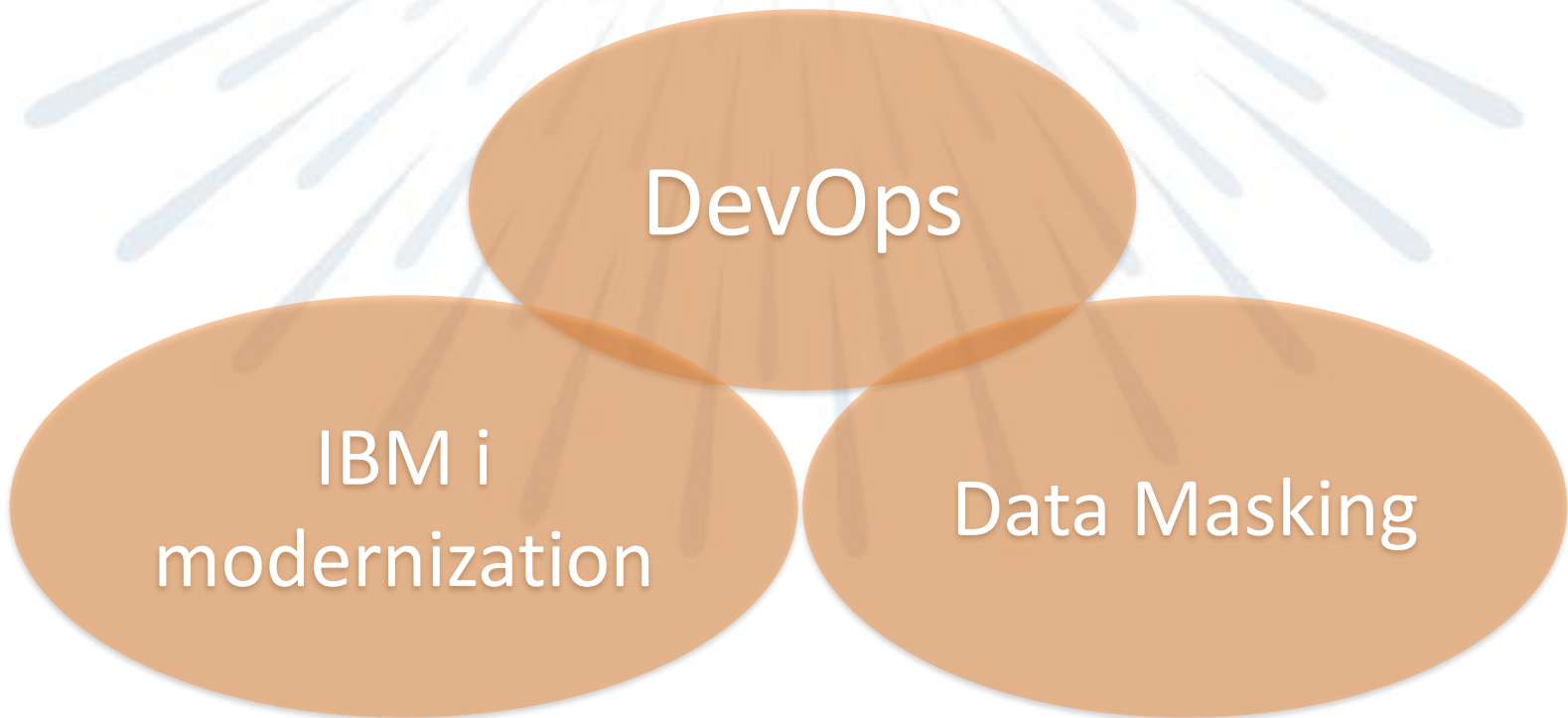


- **ARCAD Software founded in 1992**
 - Worldwide leader in **Application Lifecycle Management (ALM)** and legacy modernization for the IBM i platform
- **DROPS brand created in 2014**
 - Application Release Automation
- **DOT brand created in 2015**
 - Test automation and Data masking
- Born at the 
- 80 employees in total
- 25 years of age
- 24/7 tech support
- IBM technology and business partner

7 Offices, 75 Countries



Market Drivers

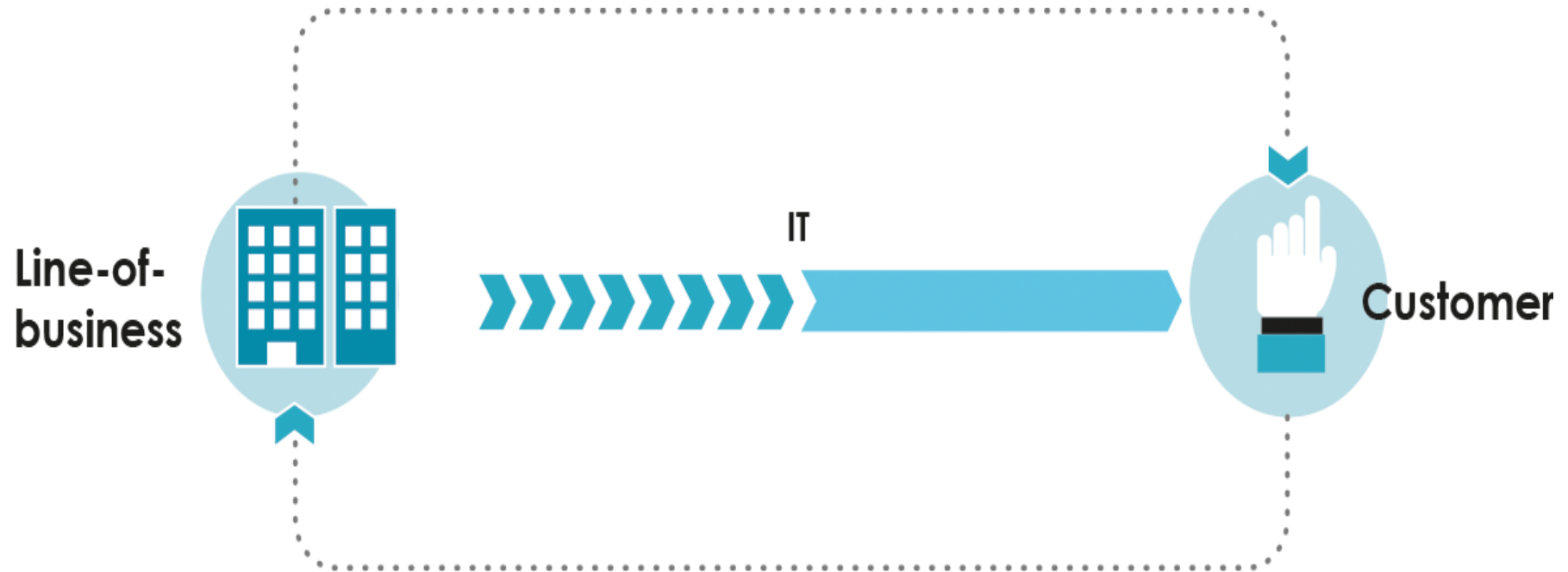
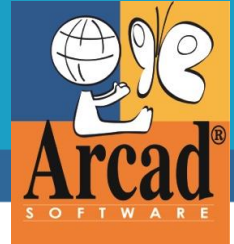






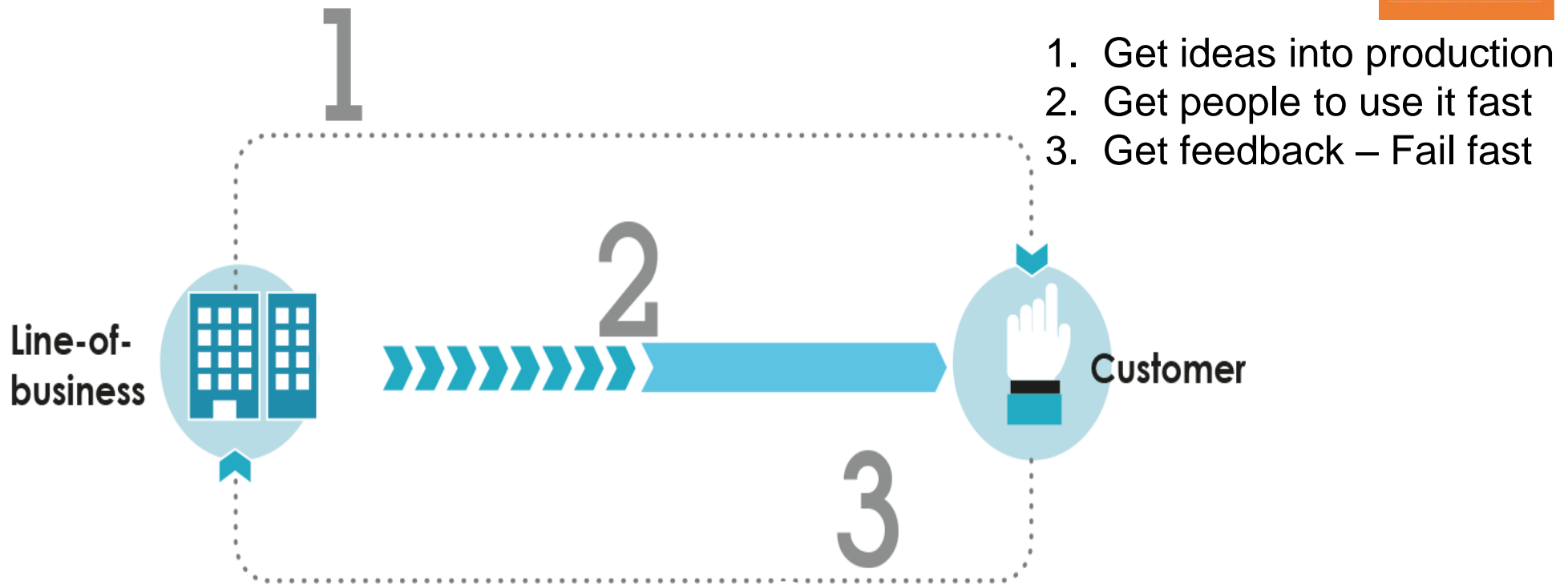
“It’s always Sit, Stay, Heel - never
Think, Innovate, Be yourself.”

What does the Line of Business want from IT?



Agility - Velocity - Innovation

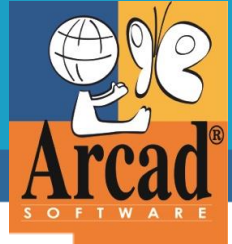
DevOps Approach



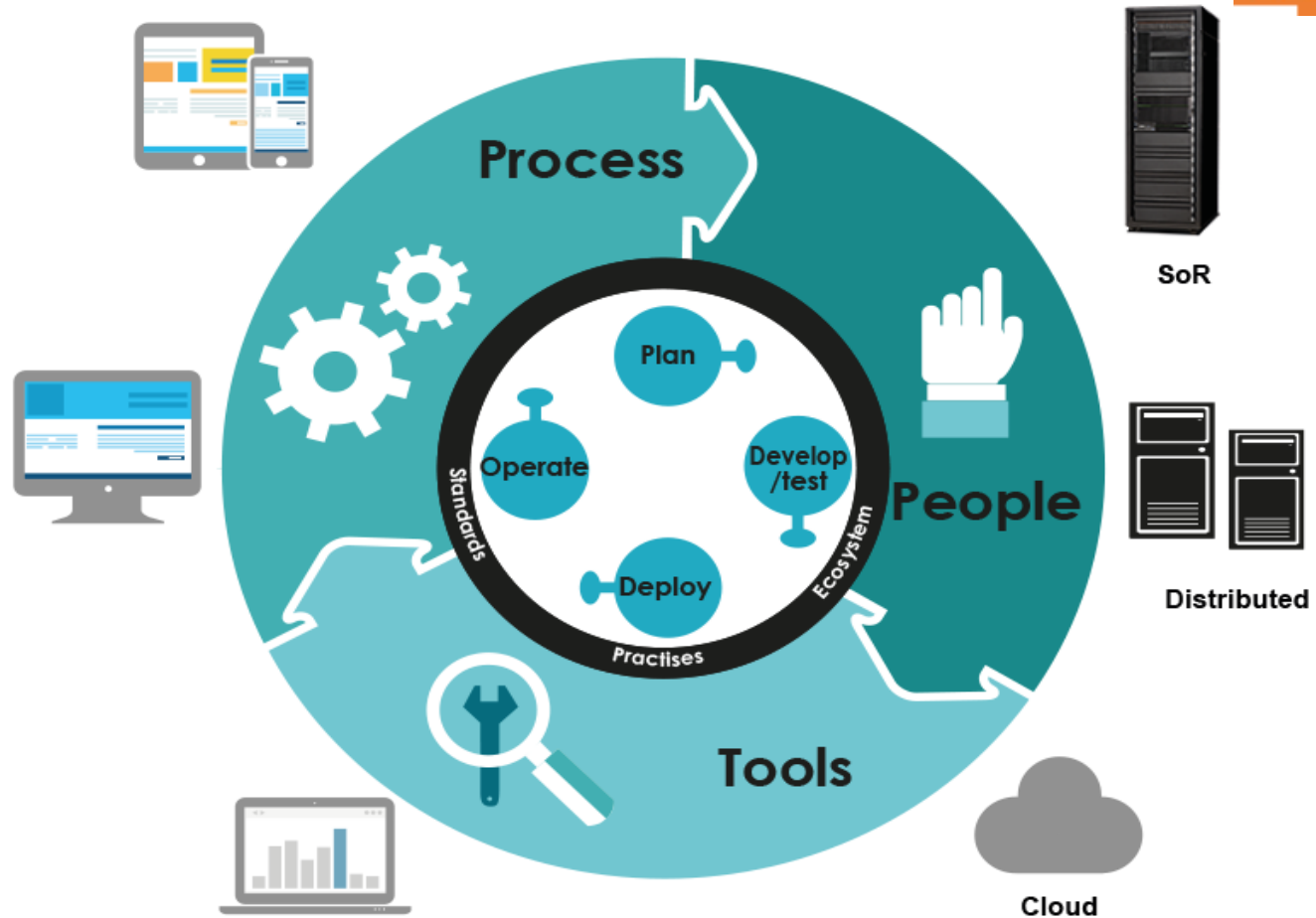
Continuously Improve:

- I. Application Delivered
- II. Environment Deployed
- III. Application and Environment Delivery Process

DevOps 101



- DevOps is not one of these things... It's all of them!
- ...across the entire lifecycle... for all technologies and platforms





Introduction

JIRA, Git/GitHub, Jenkins and ARCAD

What Is JIRA?

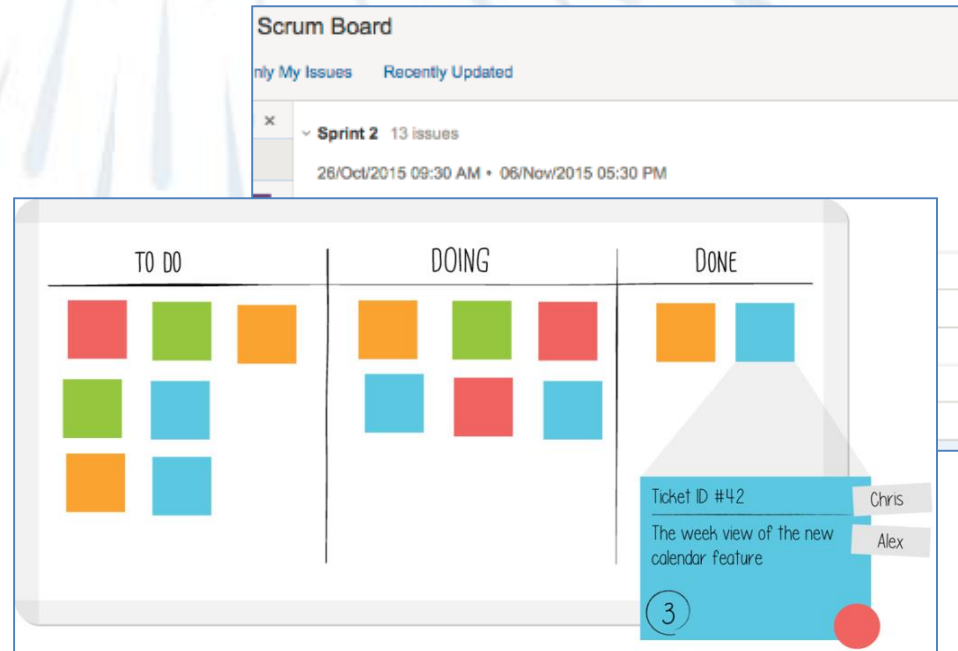
- Best of Breed tool for **project and issue tracking** including:

- Scrum Boards
- Kanban Boards
- Agile Reporting
- Portfolio Planning



- Founded in 2002

- [Publicly listed company](#)
- Headquartered in Sydney
- 25,000 customers



What Is Jenkins?



- Leading **open source automation server**
- Originally developed as the Hudson project in 2004 at Sun Microsystems
- First released in java.net in Feb. 2005
- Automation of **continuous integration** (and technical aspects of continuous delivery)
- Builds (recompile) can be triggered by various means, such as:
 - by commit in a version control system
 - by scheduling
 - by requesting a specific build URL

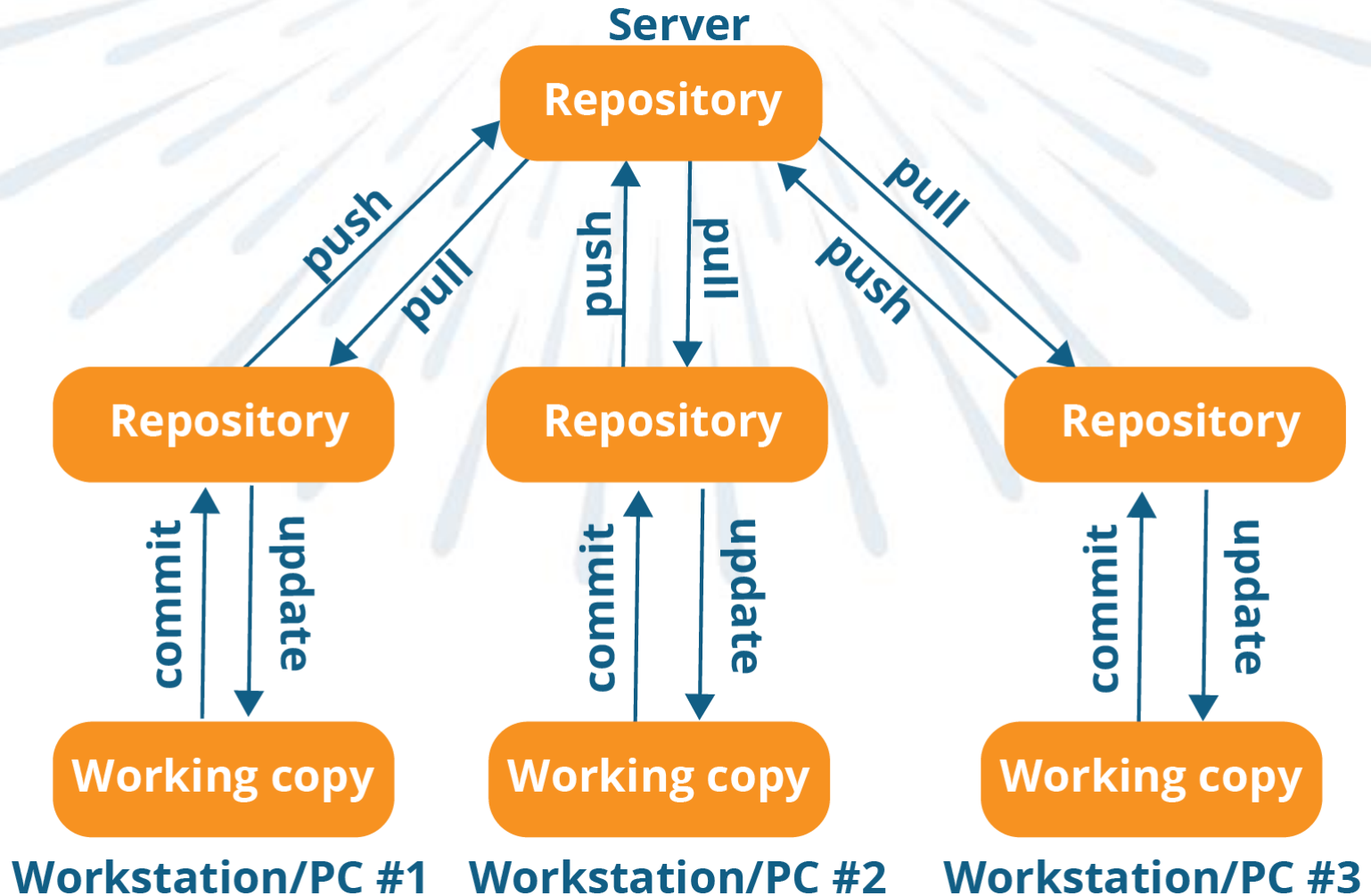


Jenkins

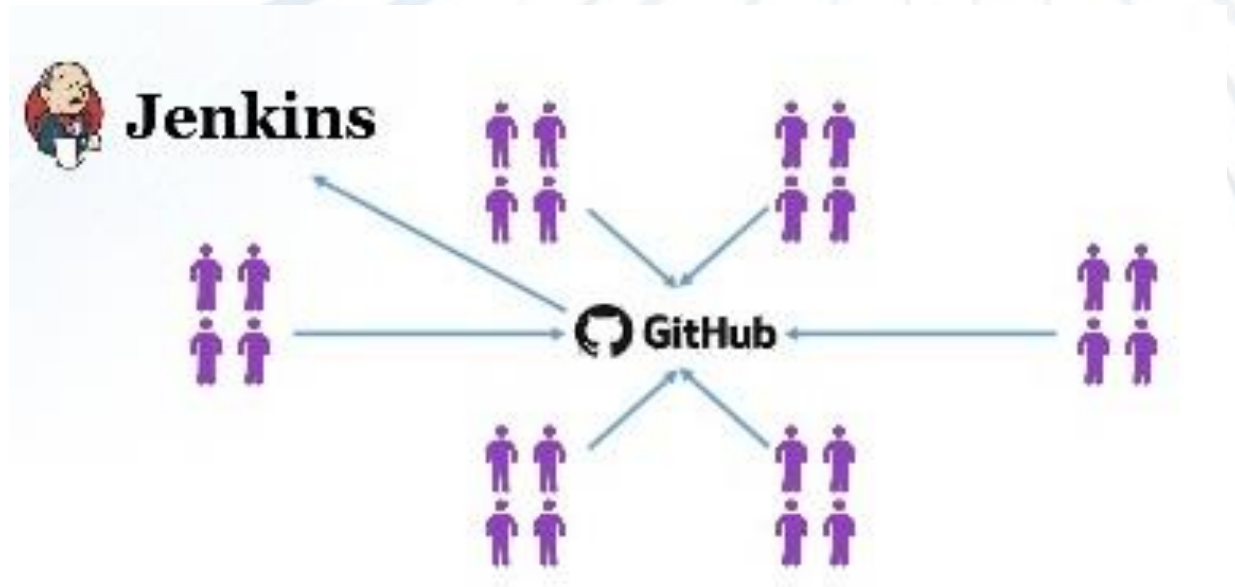
What Is Git?



Distributed version control system



What Is GitHub?



What Is GitHub?



Boost Team Productivity

- @mentions
- issues
- projects
- file editor
- fuzzy file search
- news feed
- topics
- blame



Improve Code Quality

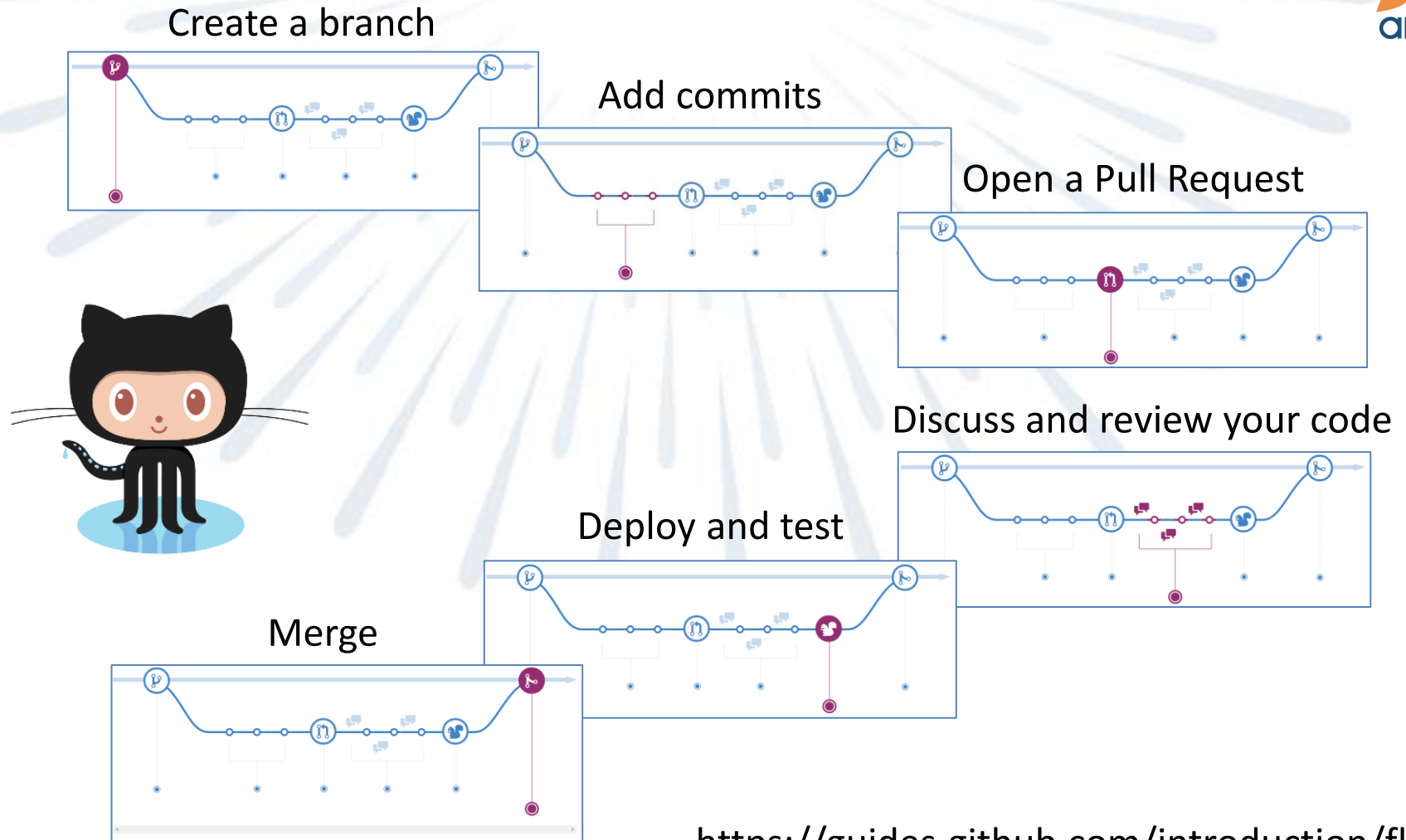
- pull requests
- code review
- protected branches + permissions
- line comments
- split differences
- signed commits
- integrations



Increase Efficiency

- code search
- commit search
- continuous integration
- releases + tags
- pulse & graphs
- integrations
- seamless API & GraphQL

The GitHub Flow



<https://guides.github.com/introduction/flow/>

Cloud or On-Prem



GitHub.com

GitHub.com is the *public cloud* version of GitHub, which is fully managed for you on our servers. GitHub.com proudly hosts the largest community of Open Source development. [Learn more ...](#)



GitHub Enterprise

GitHub Enterprise is the *on-premises* version of GitHub, which you can deploy and manage in your own secure environment behind your firewall. [Learn more ...](#)



GitHub for Business Hosted

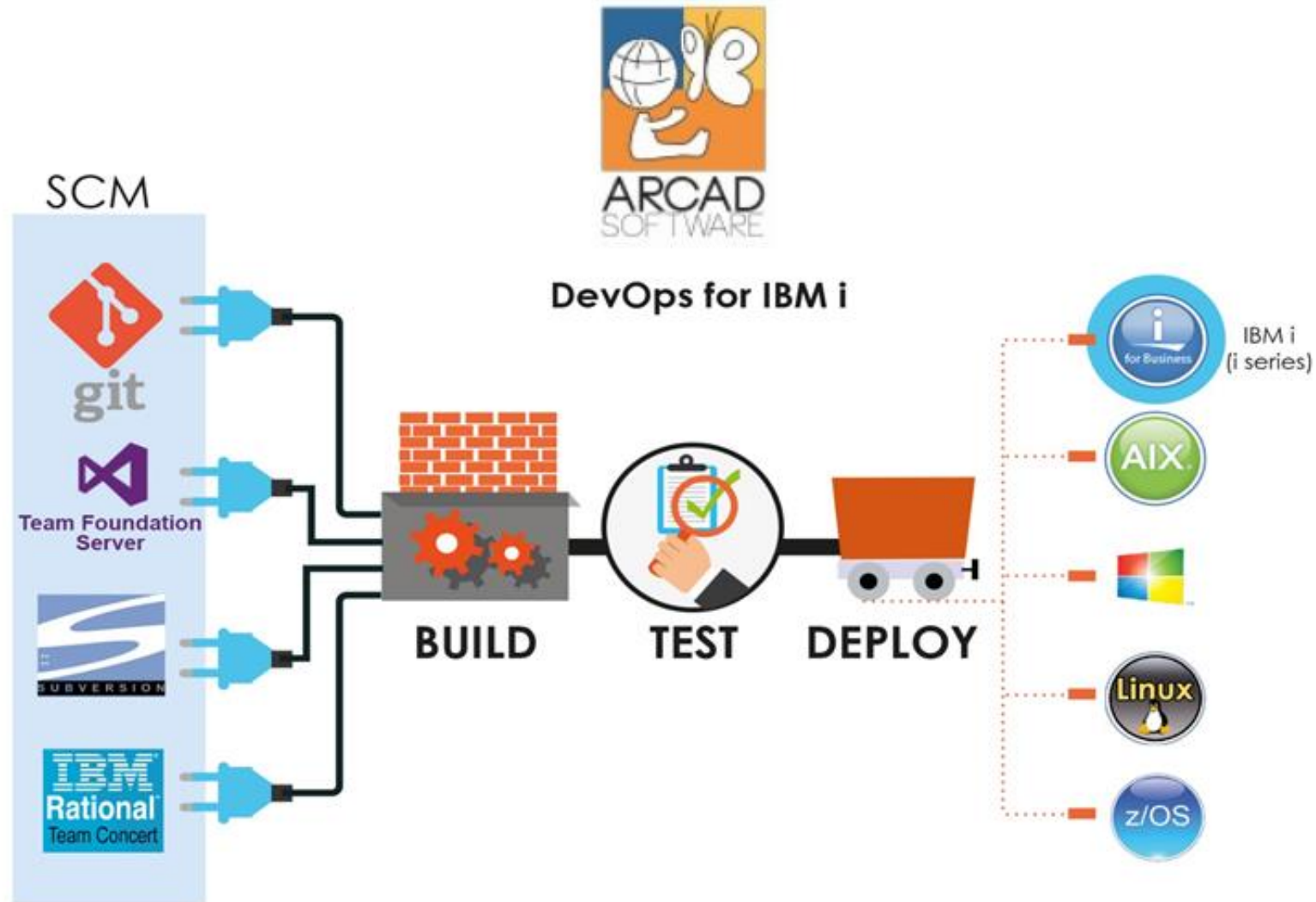
GitHub for Business Hosted can be offered as a private hosted solution on our servers with SAML integration and 99.95% uptime SLA.



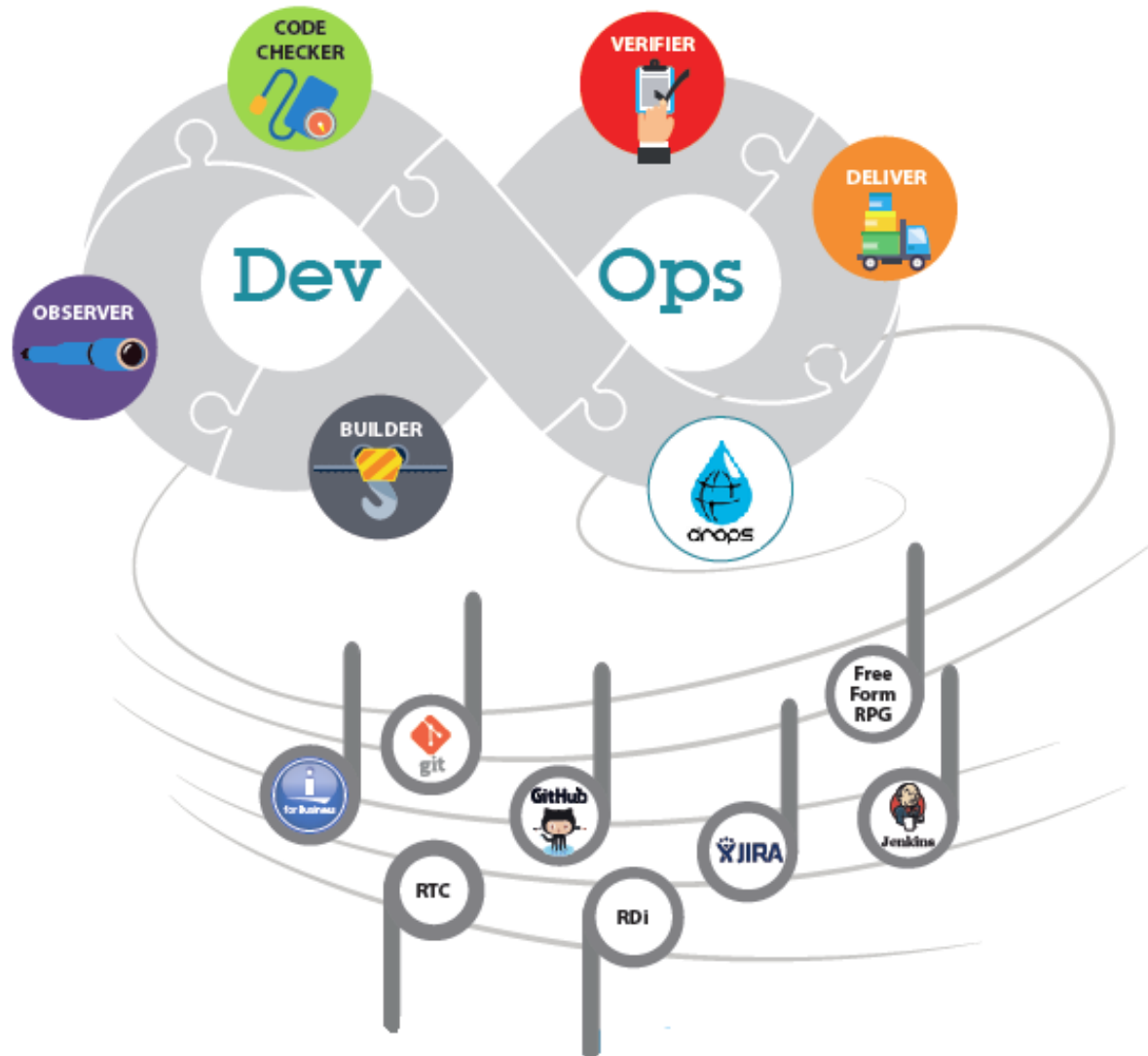
Managed Hosted GitHub

GitHub Enterprise can be offered as a hosted solution with Managed Service Providers on their servers.

DevOps - Arcad



DevOps – With Open Source



GitHub - Arcad



GitHub on IBM i (aka iSeries, AS/400), in partnership with ARCAD Software

- Collaborative platform for RPG development on IBM i
- Automated Build, Test and Deploy capability
- Shared source code repository for IBM i, UNIX, Linux, Windows

"ARCAD for DevOps"

- Integrated, end-to-end DevOps cycle for IBM i



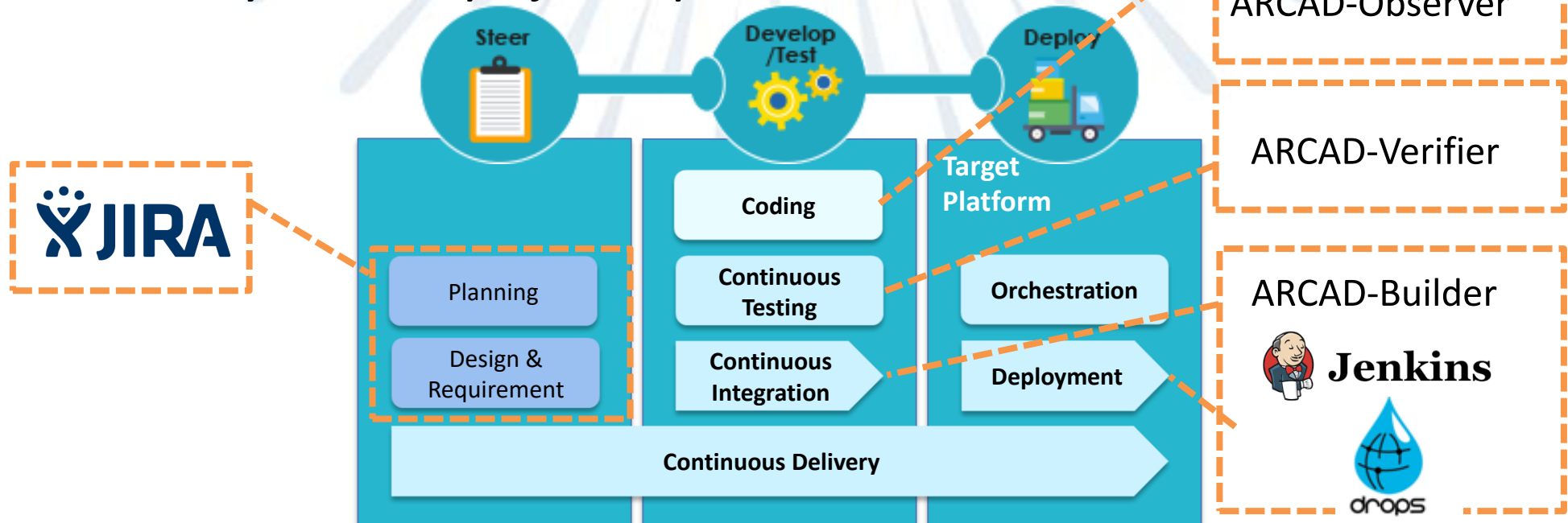
...an open tools integration strategy



Common, shared tools for managing distributed & legacy:

- **Plan/Steering** Tools
- **Source Code management** tools
- **Continuous Integration** tools
- **Deployment** tools

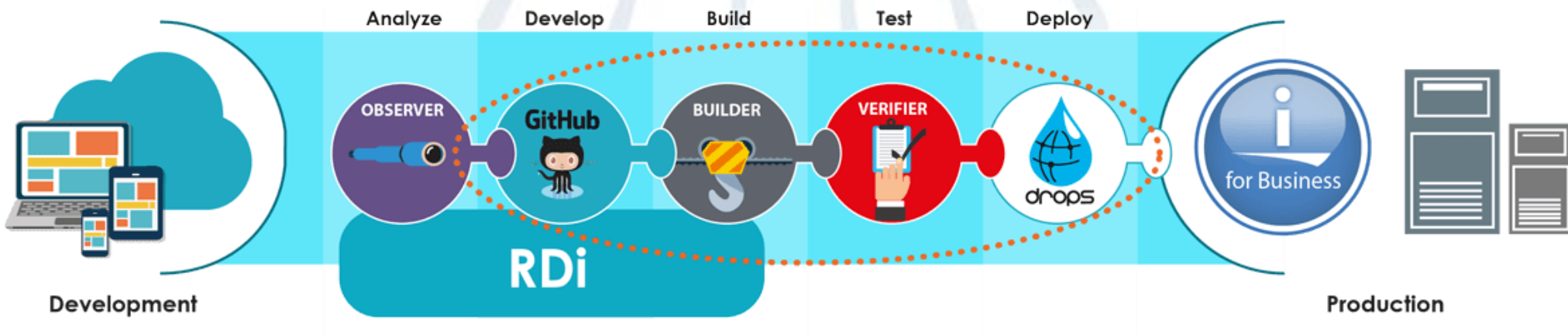
But technical layers must be *platform responsive*



Modern software delivery on IBM i



- Integrated modules for each phase in the DevOps cycle
- Application discovery (Observer)
- Automated "smart" dependency build for IBM i (Builder)
- Automated regression testing (Verifier)
- Multi-platform Application Release Automation (DROPS)
- GitHub as common source code repository for all target platforms

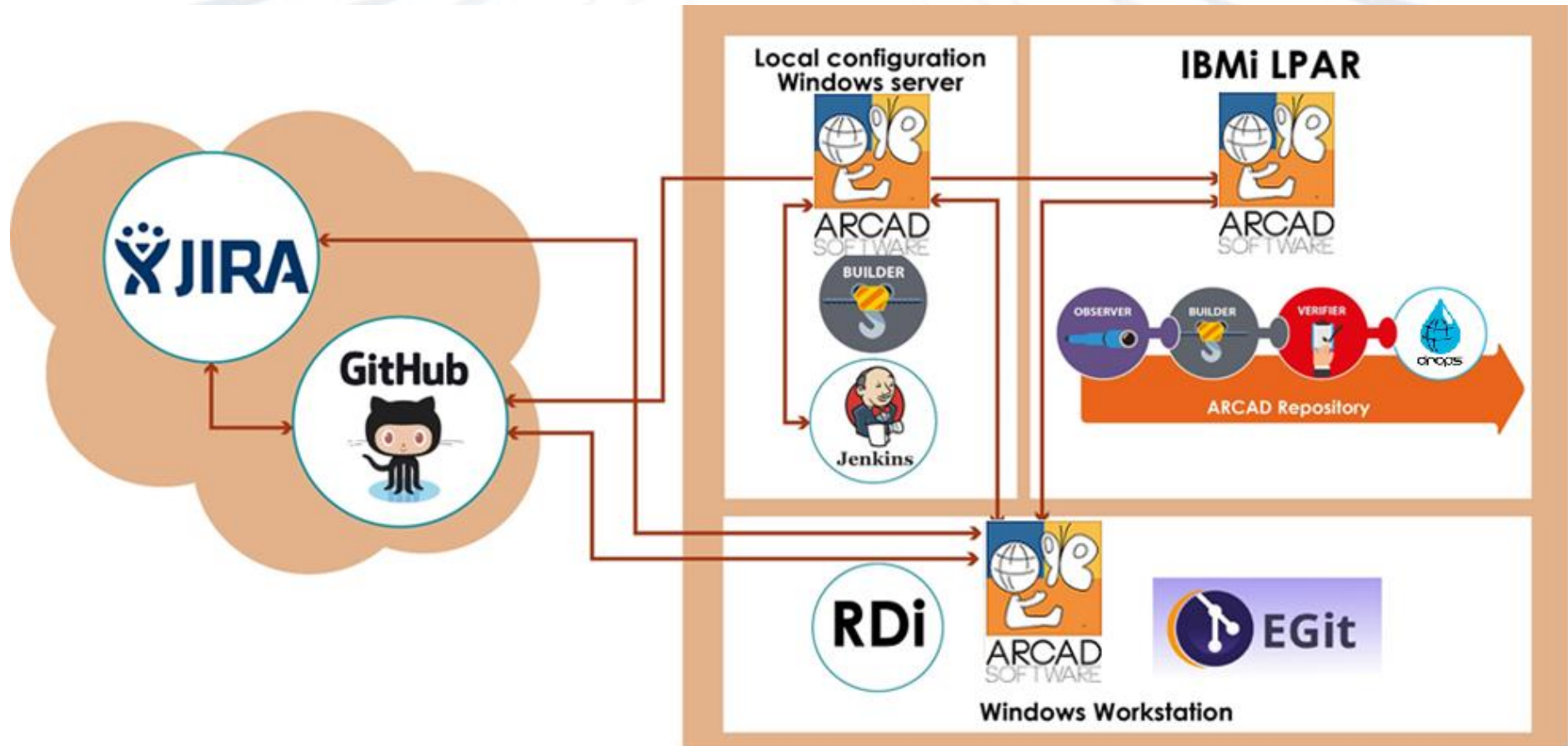




The Demo

Today's setup – The toolset

Today's Setup





Demonstration

Integrating JIRA, GitHub, Jenkins and
ARCAD for IBM i teams

GitHub Resources:

<https://resources.github.com/>

IBM i (aka iSeries, AS/400) supports Git:

<https://www.itjungle.com/2016/08/08/tfh080816-story05/>

ARCAD Press Release:

<https://www.itjungle.com/2017/05/17/arcad-github-prepare-paradigm-shift/>

ARCAD canned demo:

https://www.youtube.com/watch?v=SY2Pt4C2q_U

Summary



Open source tools are adapted to an Agile development style, requiring a culture shift for traditional IBM i development teams. *A managed transformation of the team to DevOps is vital, and must be planned for.*

Summary



- **ARCAD acts as open source tool “integrator”, offering an end-to-end, multi-platform DevOps solution set integrated with Git, GitHub, Jenkins and JIRA**
- **ARCAD provides DevOps consultancy and a risk-free migration path to open source**
- **ARCAD includes automated migration kits for migrating from traditional IBM i tools to ARCAD and open source**



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Thank you!



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Questions?

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www.arcadsoftware.com

www.github.com