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ALL DAY DEVOPS | 4.17.20
SPRING BREAK EDITION

APRIL 17, 2020

Jamal Walsh – The Very Group

Integrating your Toolchain - Tips and Pitfalls

A bit about me...

- Senior Solutions Architect @ The Very Group
- The UK and Ireland's largest integrated digital retailer and financial services provider.

  Our Brands

  www.very.co.uk

  www.littlewoods.com

  www.littlewoodsireland.ie
- Digital Customer Experience Tribe
- DevOps Institute Ambassador

Agenda

- Challenges faced Building Your Toolchain
- Pitfalls and Tips when Integrating your Toolchain

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DevOps is a Journey

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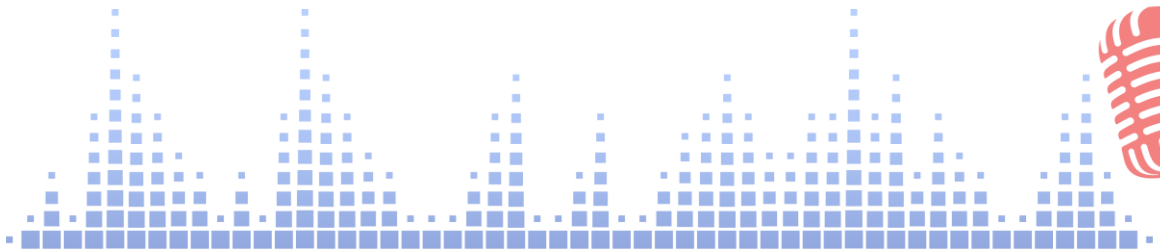
People
Process
Technology
Data



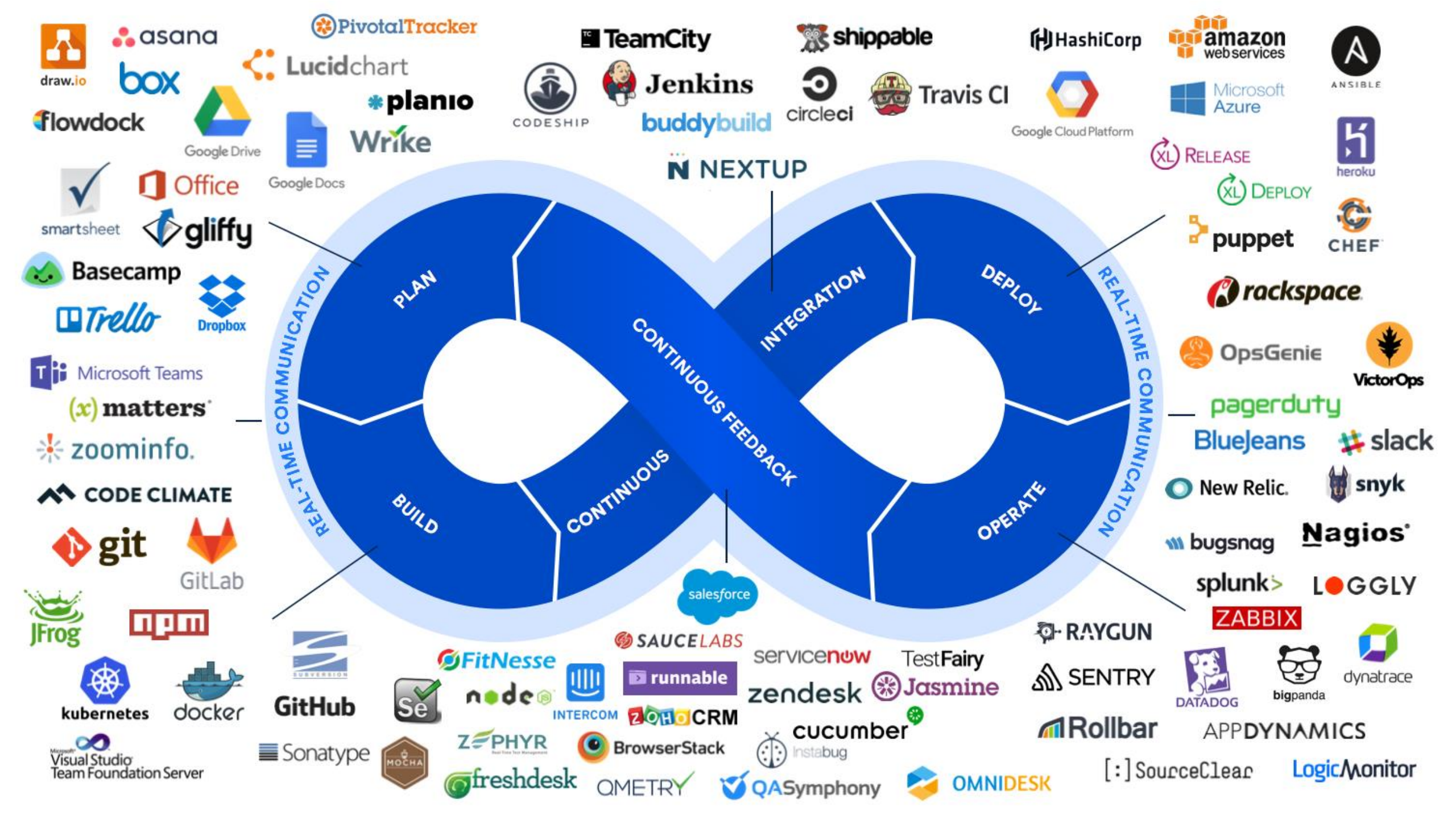
One of the biggest challenges in any DevOps Journey is choosing the right Technology...

Low Code / RAD / Mobile App Dev
WaveMaker
mendix
AGILEPOINT
outsystems
Back&
caspio
skuid
LANSA
alpha Software
bizagi
kony
<form.io>
kintone
Req Management
REQUIREMENTONE
Aha!
iRise
aligned
Process.st
VINDOC
SPARX SYSTEMS
jama
gatherspace
Requirements on Demand
Accompa
SelectHub
tracecloud
KOVAIR
inflectra
blueprint
IDEs
Koding
Cloud9
codenvy
Genuitec
SourceLair
NITROUS.IO
Codebox
sourcegraph
CODETASTY
JSFIDDLE
codeanywhere
JET BRAINS
eclipse
Agile Management
VERSIONONE
active.collab
Hansoft A³
PivotalTracker
AgileCraft
SprintGround
agile bench
agilo software
targetprocess
ZebraPlan
Dev Analytics
Optimizely
LaunchDarkly
CODE CLIMATE
codility
APPTIMIZE
sonarqube
bliss
logz.io
metrixware
bugsnag
semmle
CODACY
Perf / Load / Stress
Apica
LoadStorm
nouvola
SMARTBEAR
SAUCELABS
Service Virt
PARASOFT
SMARTBEAR
Functional / Automation
APPLAUSE
perfecto mobile
testim
APPDIFF
experitest
BlueSwan
Silicus
Ranorex
CYARA
rainforest
mabl
TRICENTIS
applitools
cucumber
Buildbot
appvance
TestCraft
appium
TestPlant
Repositories / Dev Communities / Integration Layers
GitHub
Sonatype
stackshare
JFrog Artifactory
stackoverflow
CollabNet
PERFORCE
sourceforge
GitLab
Bitbucket
TASKTOP
plasticscm
RhodeCode
App Automation
bitnami
Quali systems
ZERO STACK
STRATOSCALE
ANSIBLE
CLOUD 66
RIGHTSCALE
Skytap
SALTSTACK
puppet
HASHICORP
CHEF
CI/CD
codefresh
cruisecontrol
harness
Travis CI
Solano Labs
snap
PLUTORA
circleci
electric CLOUD
shippable
CODESHIP
Cloud / Container Orchestration / Management
heptio
onapp
ClusterUP
CloudHealth Technologies
anchore
docker
KONTENA
atomic
cloudsoft
CloudBees
INCONTINUUM
CoreOS
TECTONIC
SCALR
UNIVA
MESOS
APCERA
GIGASPACES
Jelastic
nirmata
weaveworks
RANCHER
Monitoring & Mgmt
RAYGUN
FixStream
CLOUD PHYSICS
kentik
VictorOps
APPFORMIX
PERSPICA
bigpanda
RUNDECK
LogicMonitor
pagerduty
signal fx
ClusterUP
ScienceLogic
honeycomb.io
sysdig
SevOne
monitis
OverOps
CLOUDZERO
DATADOG
Container Security
aqua
CoreOS
Twistlock
LAYERED INSIGHT
Cloud Insights
Aporeto
NeuVector
Application Security
Dome9
CONTRAST SECURITY
VIRTUALFORGE
PREVOTY
HYTRUST
Cigital
Signal Sciences
BRIXBITS
illumio
waratek
threat stack
Tcell
IMMUNIO
DevSecOps
DENIM GROUP
CHECKMARX
BLACKDUCK
CYBRIC
codiscope
UpGuard
WhiteSource
PALAMIDA
Cigital
WhiteHat SECURITY
API Management
mashape
Restlet
SMARTBEAR
API Dev Services
Algolia
import io
Auth0
tray.io
Keen IO
pokitdok
Lob
stripe
API Integration
workato
POSTMAN
built.io
cloud elements
stamplay
zapier
Jitterbit
kloudless
API Directories
mashape
ProgrammableWeb

So.... After all that toolchain anxiety...

You've chosen the right tools!

Congratulations


draw.io
asana
box
flowdock
Google Drive
PivotalTracker
Lucidchart
planio
Wrike
Google Docs
TeamCity
CODESHIP
Jenkins
buddybuild
shippable
circleci
Travis CI
HashiCorp
amazon web services
Google Cloud Platform
Microsoft Azure
ANSIBLE
RELEASE
heroku
DEPLOY
puppet
CHEF
rackspace
NEXTUP
smartsheet
Office
gliffy
Basecamp
Trello
Dropbox
Microsoft Teams
(x) matters
zoominfo.
CODE CLIMATE
git
GitLab
JFrog
npm
kubernetes
docker
Visual Studio Team Foundation Server
PLAN
CONTINUOUS
BUILD
INTEGRATION
DEPLOY
OPERATE
REAL-TIME COMMUNICATION
CONTINUOUS FEEDBACK
REAL-TIME COMMUNICATION
OpsGenie
VictorOps
pagerduty
BlueJeans
slack
New Relic.
snyk
bugsnag
Nagios
splunk>
LOGGLY
ZABBIX
RAYGUN
SENTRY
DATADOG
bigpanda
dynatrace
Rollbar
APPDYNAMICS
[:] SourceClear
LogicMonitor
salesforce
SAUCELABS
FitNesse
node
runnable
INTERCOM
ZOHO CRM
servicenow
TestFairy
zendesk
Jasmine
cucumber
Instabug
ZEPHYR
BrowserStack
Sonatype
MOCHA
freshdesk
QMETRY
QASymphony
OMNIDESK
GitHub

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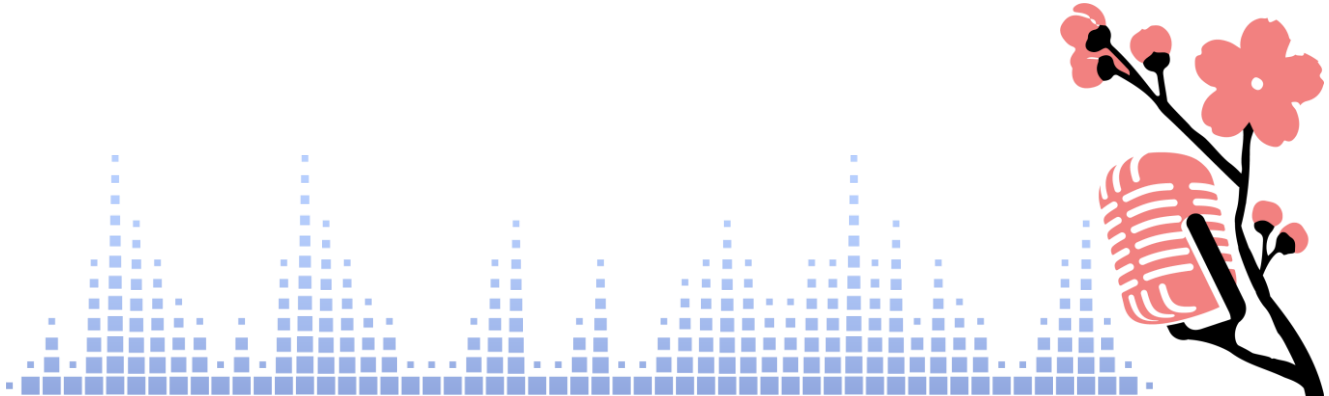
12 of my best Tips and Pitfalls for integrating your toolchain

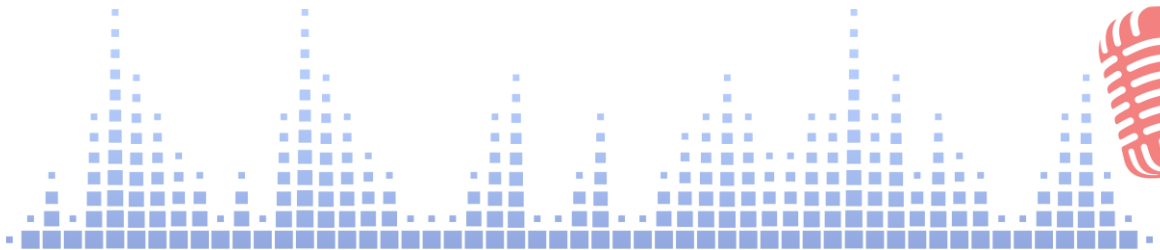


PITFALL:

Not treating your pipeline as a product.

TIP:

Ensure you have tasks in your backlog to continuously improve your People, Processes and Technology. Increasing the speed, quality and security of the features you deliver is just as important as delivering features. If you don't your competitors will!

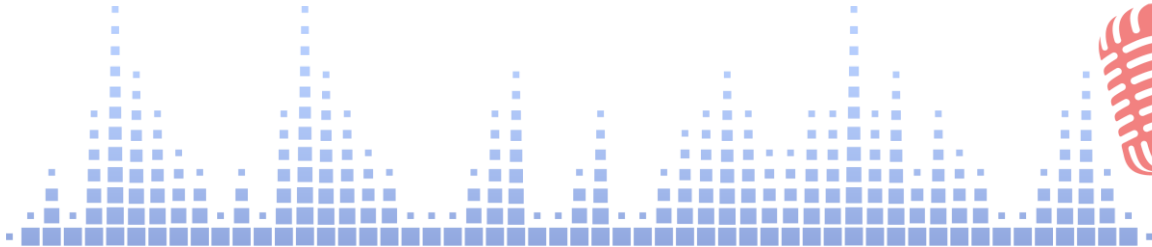


PITFALL:

Adding complexity to your delivery pipeline is a bad idea.

TIP:

Don’t duplicate tools. Don’t over complicate your tooling configuration

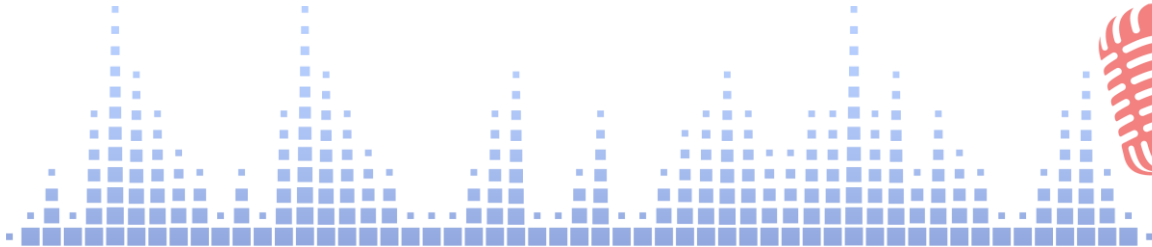


PITFALL:

Not integrating with an Identity Provider
e.g. AzureAD Okta

TIP:

Integrating your toolchain with an Identity provider will reduce security risks and save you time provisioning and de-provisioning users. This type of integration usually only comes with Enterprise plans. Improves the speed you can onboard new engineers.

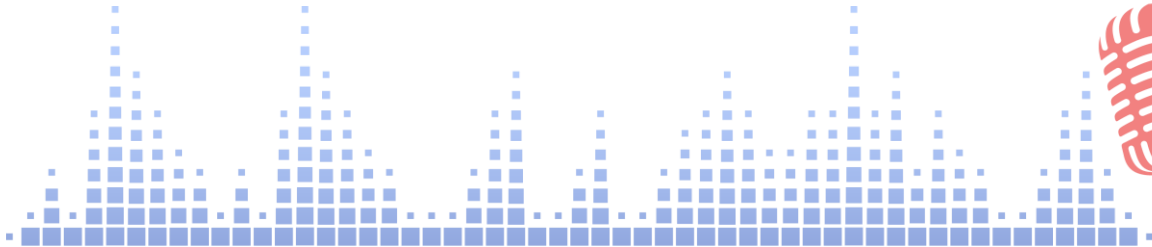


PITFALL:

Using an individuals credentials for integrating tools, this can break integrations when people leave.

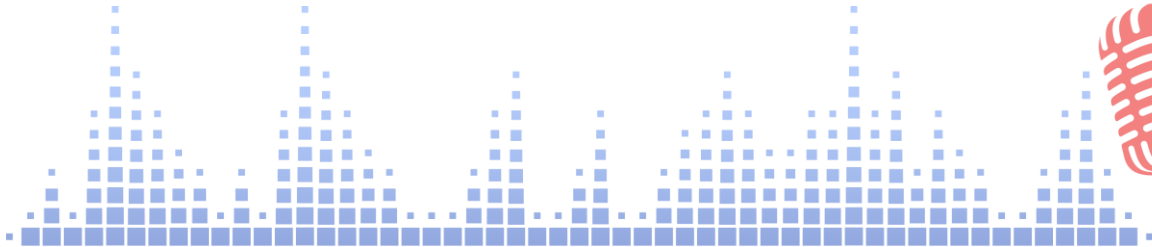
TIP:

Create a service/system user and securely storing any credentials, API Keys etc generated for the user.



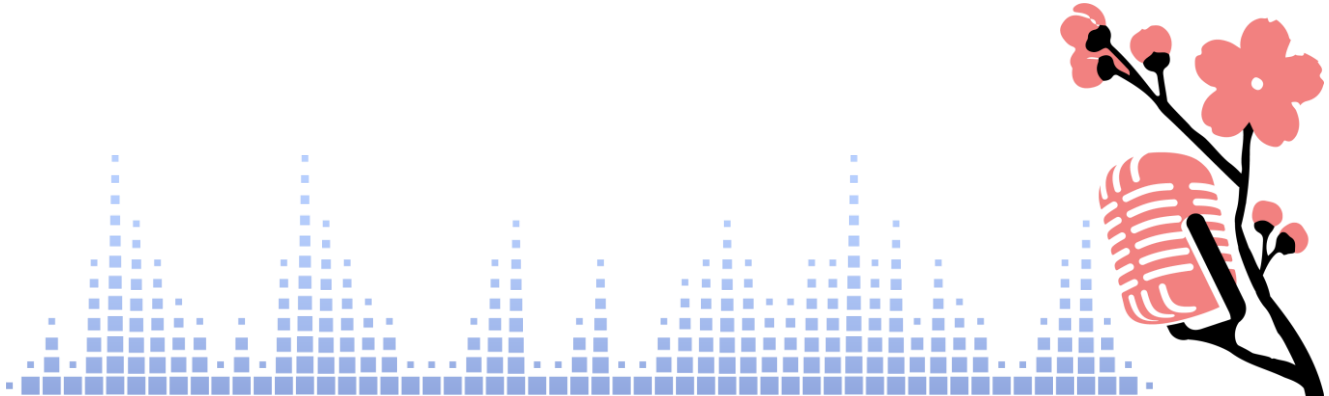
PITFALL:
Bad integrations into live systems can cause major issues.

TIP:
Test your integrations in trial accounts or create a separate test system.



PITFALL:
Not making actionable outputs

TIP:
Be clear on what needs to happen with any outputs from integrations, or even better automate the actions from the outputs.

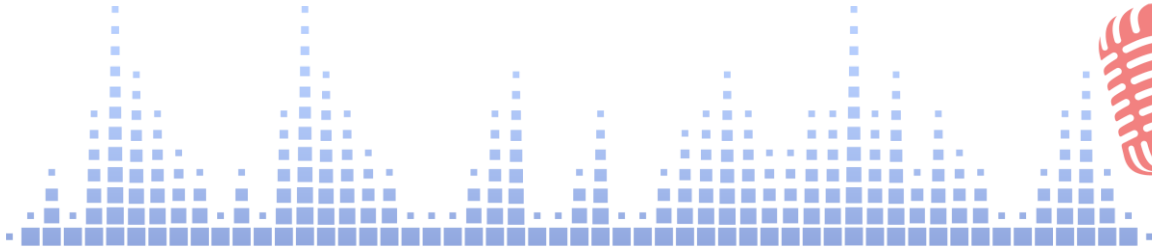


PITFALL:
Not leveraging APIs

TIP:
Try out the APIs using something like Postman to see what the art of the possible is.

PITFALL:
Not treating Everything as Code

TIP:
When creating integrations consider configuring everything as code where possible, this will make thing repeatable and easier to maintain.

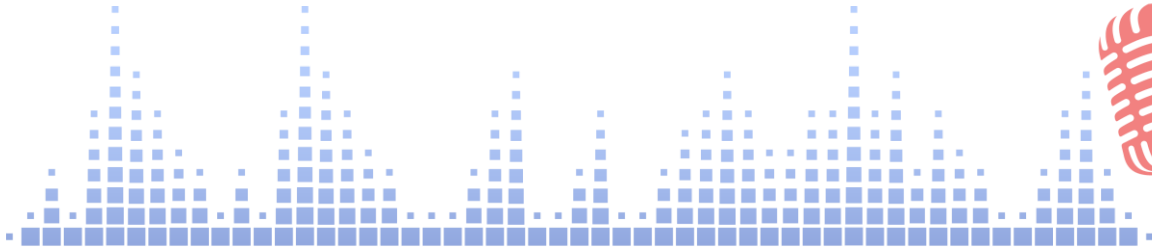


PITFALL:

Using many different tools when one will do the Job

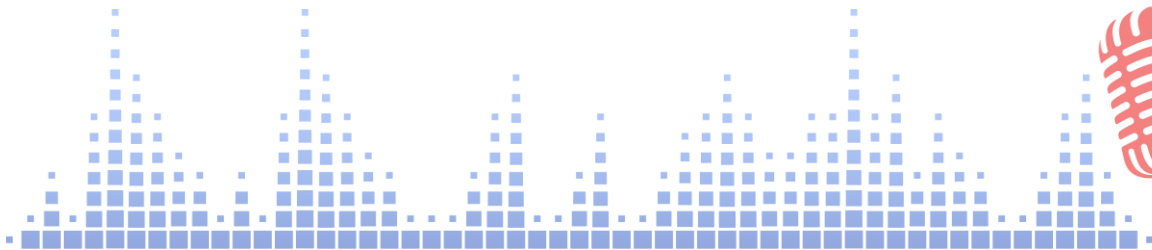
TIP:

There a huge battle going on in the DevOps tooling market right now, large vendors are adding more capability and integrations. The likes of Azure DevOps, GitLab and Cloudbees are trying to corner the market.



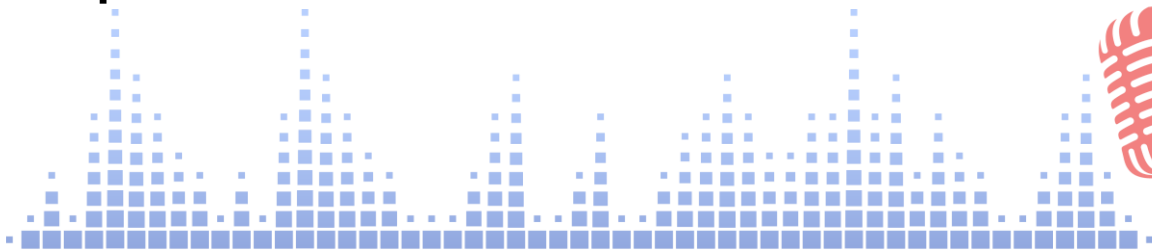
PITFALL:
Not leveraging updates

TIP:
Keep a close eye on the updates and release notes, you might miss a killer feature that helps you integrate and automate stuff to make your life easier.



PITFALL:
Not having a strategy or roadmap for your toolchain and integrations.

TIP:
Build a strategy or roadmap for how you want to integrate your toolchain. Start with things that are causing you the most pain.



PITFALL:
Not considering security when integrating tools!

TIP:
Consider using Threat Modelling with DREAD and STRIDE When designing your integrations

SEE YOU IN THE FALL!
November 12, 2020 | alldaydevops.com/register-2020
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THANK YOU!

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