

# Od Legacy po Native Cloud jednoducho a rychle

18-03-2021

Trusted partner for your Digital Journey

© Atos

**Atos**

RedHat Partnership

# Atos is the biggest System Integrator Alliance of Red Hat in EMEA



Committed to Red Hat Portfolio

- Red Hat Openstack
- OpenShift PaaS – 3.X and 4.X
- Ansible – Default automation platform
- RHEL – 12 years supporting RHEL

Years support Cloud and Container platforms

Application Engineers and Experts

# Atos customers benefit from Red Hat Technology



**Bull Data Lake**

**German Tax Office**



**IDC: EU Government Transformation**

**Siemens Financial Services**



**IoT Platform**

**NFVi Lab - Grenoble**



**Atos Managed OpenShift**

**Large Airline**

Red Hat  
Partner since  
2009

Bull OEM/ HPC  
Agreement  
2010



Premier  
Business Partner

Global System  
Integrator Partner  
2019

From 2020 RedHat  
Premier partner -  
Slovakia

Red Hat Cloud  
embedded within  
core offers for  
IoT & Telco

1.100+ active  
certifications and  
accreditations

# Global Premier Partnership with the largest open source company in the world

## Partnership Overview

Together we help enterprises evolve legacy infrastructure and applications while creating new digital services to meet changing demands – both today and in the future. For over 10 years, Atos and Red Hat have been delivering business value through helping organizations create a culture of agility, adaptability, and innovation.



### Atos Managed Openshift (AMOS)

Atos' trusted managed services experience combined with Red Hat's leading Container Platform OpenShift



### Ansible Automation Platform

Foundation for building and operating automation across an organization, used as the standard platform by Atos itself



### Application Modernization

Atos has enriched AMOS with Syntbot based Atos Migration Tool Suite to accelerate the adoption of DevOps and the modernization of applications



### Accelerate NFV Journey

Red Hat is Atos' main open source partner for providing carrier-grade infrastructures for NFV deployments on OpenStack



### Secure Private Cloud Blueprint

Largest Red Hat Storage and Red Hat OpenShift integrated solution, automated with Ansible, orchestrated with CloudForms: Speed and efficiency



### Smart City

Atos Smart City IoT solution ensures rapid deployment, scalability and open APIs based on Red Hat Emerging Technology



We are a Premier Global System Integrator Partner

2000+ skills in Red Hat technologies

Over 1100 active certifications and accreditations

Middleware Partner of the Year 2015 (EMEA)

The biggest System Integrator Alliance of Red Hat in EMEA

# Atos Managed OpenShift

# What is cloud native?

In general usage, “cloud-native” is an approach to building and running applications that exploits the advantages of the cloud computing delivery model.

“Cloud-native” is about **how applications** are **created** and **deployed**, **not where**.

\* <https://www.infoworld.com/article/3281046/what-is-cloud-native-the-modern-way-to-develop-software.html>

# Plan





# Reality



# Atos Managed Openshift (AMOS) Key Investment from Atos & Red Hat

## Atos and Red Hat extend strategic partnership to provide fully-managed cloud container solutions powered by Red Hat OpenShift.

**Key benefits include: reduced time to market and business agility with proven Open Source communities; enabling application portability; collaboration for Agile development and continuous delivery; scalability and a flexible choice of cloud infrastructure to suit different business needs.**

Paris - February 2018

[Atos](#), a global leader in digital transformation, announces a new fully-managed cloud solution built on Red Hat's OpenShift Container Platform through a new Atos Centre of Excellence centred around Red Hat's Emerging Technology portfolio. With the rising adoption of the open source container technologies of Docker and Kubernetes within the enterprise market, the Atos Managed OpenShift Service provides customers the ability to leverage these technologies as part of their ongoing digital transformation and create and run production-grade cloud native solutions and port compatible legacy applications on a flexible, scalable and reliable cloud platform that can be deployed across hybrid cloud landscapes. The service is supported by Atos and Red Hat's expertise in cloud service management and enterprise level open source technologies.

# AMOS – Atos Managed OpenShift for Multi Cloud

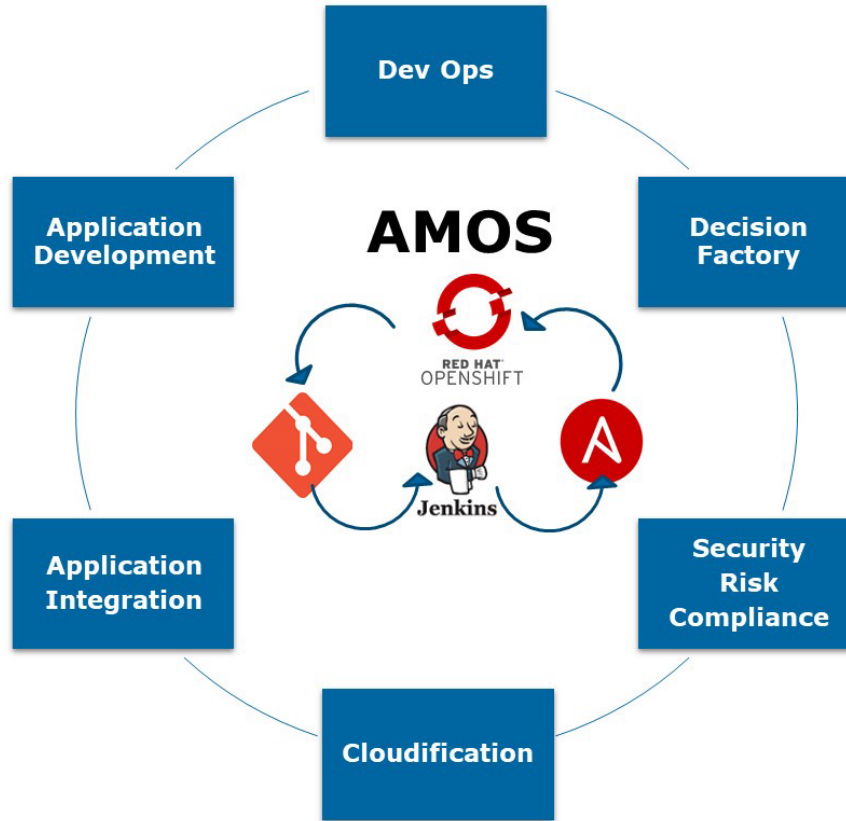
**Atos provides a fully managed PaaS platform!**

**A fully scalable cloud service to support the creation of cloud native applications available remotely for any customer**

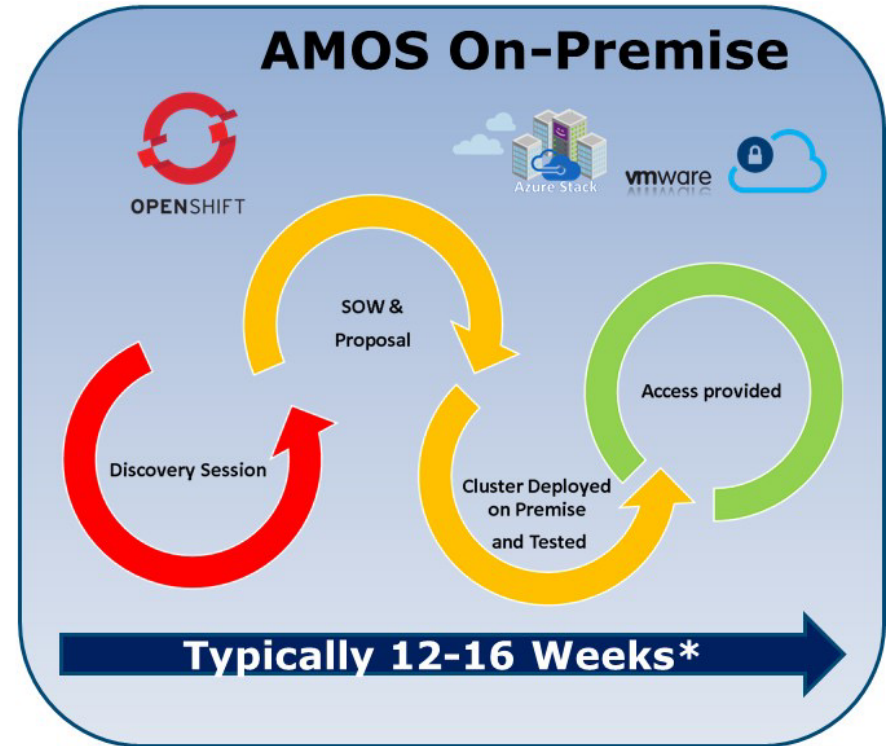
The logo for Atos, featuring the word "Atos" in a bold, blue, sans-serif font. The letter 'o' is stylized with a white circular cutout.The Red Hat logo, which is a red fedora hat with a black band.

**Red Hat**  
OpenShift  
Container Platform

# AMOS Complementary Services



# AMOS – Cluster Availability



# Atos Major Events Business Unit

## Running the World's global events



- ▶ **Development of cloud native applications**
- ▶ **Consistent use of containers on multi-cloud platforms**
- ▶ **Platform Scalability**
- ▶ **API Management**
- ▶ **Security features and support**
- ▶ **Fully automated**

# Application Transformation

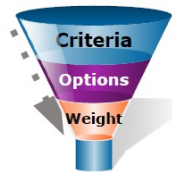
# Application Transformation & Development

## A proven end to end transformation model

### Application Assessment



### Decision Factory



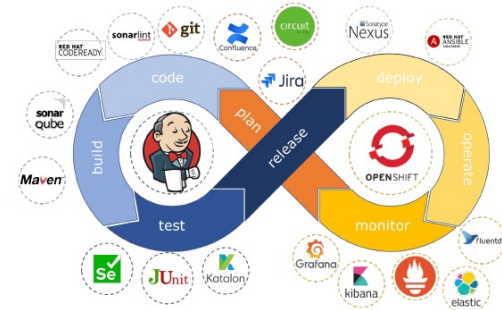
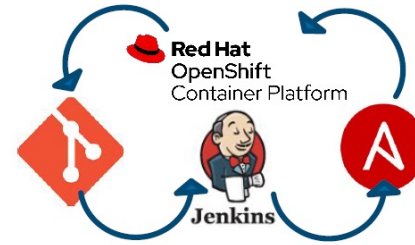
Assess

3



Transform

### AMOS



Orchestrate

Operate

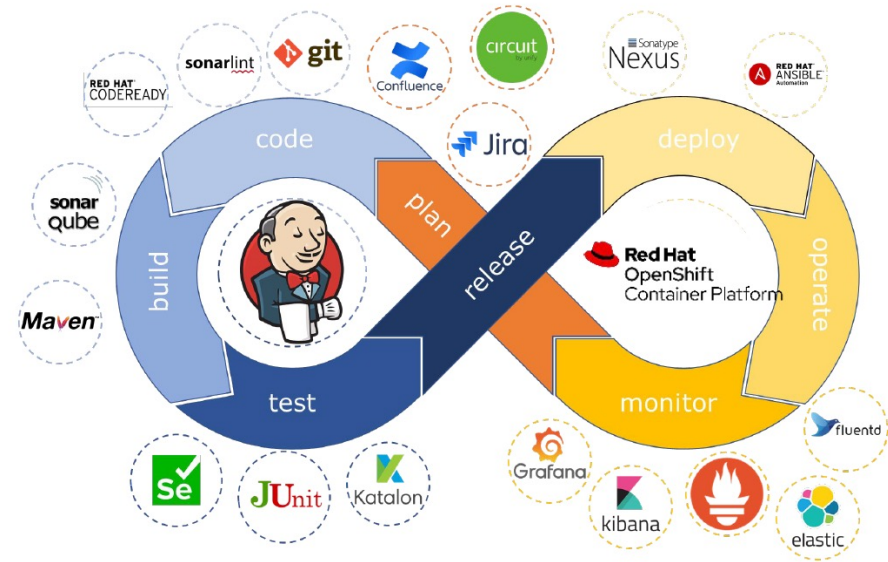
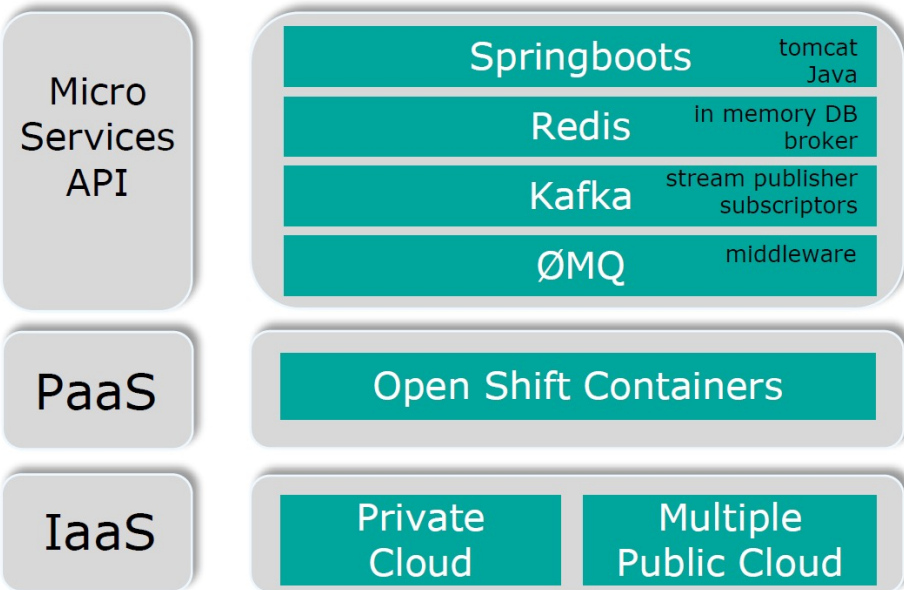


# Area of Consideration

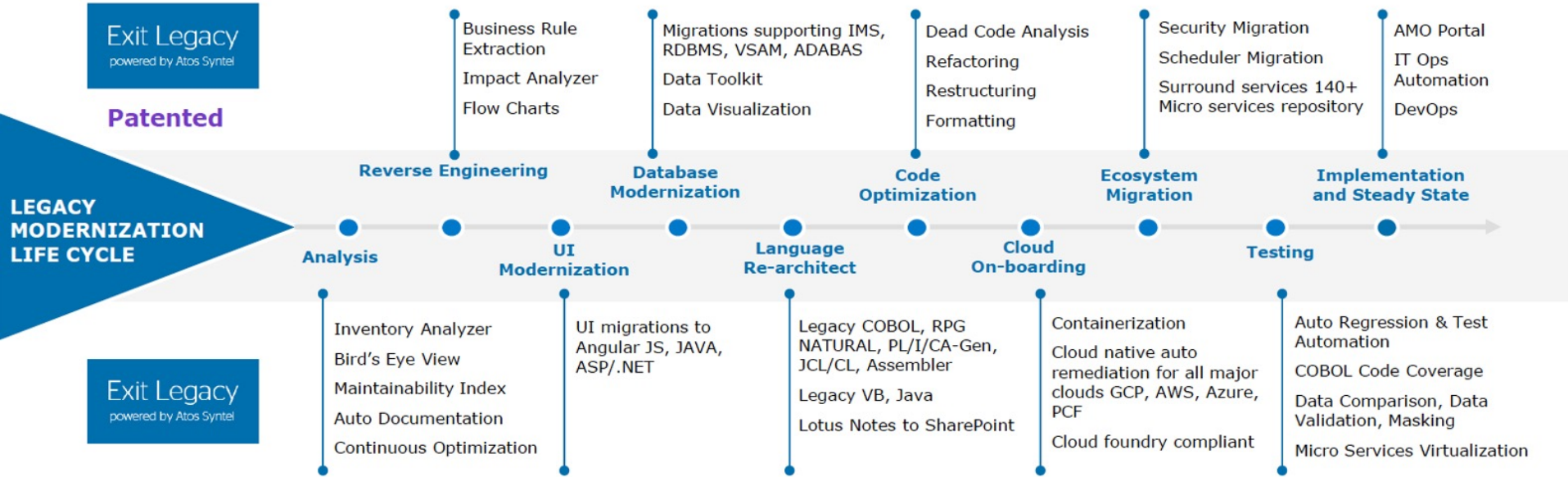
Area of Consideration	Factors to be Considered
Infrastructure	Infrastructure utilization
	OS Compatibility
	Affinity to a particular Make or Model
	Hybrid Deployments
Cloud Native readiness	Dependence on a specific runtime
	Use of Legacy frameworks and Libraries
	Portability across clouds
Scalability	Statelessness
	De-coupled Architecture
Availability	Multi Availability Zone Deployments
	Upgrades without disruption in service
Time to Market	CI/CD implementation
Security	DevSecops
	Sensitive (PII) Data
Inter-operatibility	API-fication and Containerization
Telemetry	Integration with Monitoring Solutions

# Configuration and toolchain example

## To support the creation of cloud native applications



# Exit Legacy Platform for Modernization



**Technologies Supported:** COBOL (Mainframe / AS400), RPG, PL/I, CA-Gen, Natural, Assembler, Ab-Initio, PowerBuilder, Visual Basic, JAVA, .Net, Lotus Notes

**70%** Automation

**2X** Faster Than Manual Rewrite

**50%** Reduced Efforts

# Customers who consume the service

- ▶ Customers who develop applications internally and want to develop them cloud natively on private, public or hybrid cloud.
- ▶ Customers that want assistance migrating applications to a container based platform.
- ▶ Customers that do not want to run the platform (dull) and want to accelerate the development of applications to transform their organization (enjoy).
- ▶ Customers that want to do a proof of concept on container platform available immediately

# CNCF Cloud Native Interactive Landscape

The image displays the CNCF Cloud Native Interactive Landscape, a grid of logos for various technologies and services. The landscape is organized into several main categories:

- App Definition and Development:** Includes Database, Streaming & Messaging, Application Definition & Image Build, and Continuous Integration & Delivery.
- Orchestration & Management:** Includes Scheduling & Orchestration, Coordination & Service Discovery, Remote Procedure Call, Service Proxy, API Gateway, and Service Mesh.
- Runtime:** Includes Cloud Native Storage, Container Runtime, and Cloud Native Network.
- Provisioning:** Includes Automation & Configuration, Container Registry, Security & Compliance, and Key Management.
- Platform:** Includes Certified Kubernetes - Distribution, Certified Kubernetes - Hosted, Certified Kubernetes - Installer, and PaaS/Container Service.
- Observability and Analysis:** Includes Monitoring, Logging, Tracing, and Observability Engineering.
- Serverless:** A dedicated section for serverless technologies.
- Members:** A list of member organizations.
- Special:** A section for special projects, including a QR code and the URL [l.cncf.io](https://l.cncf.io).

The landscape is intended as a map through the previously uncharted terrain of cloud native technologies. There are many routes to deploying a cloud native application, with CNCF Projects representing a particularly well-travelled path.

# Thank you

For more information please contact:  
M+ 421 903 797 013  
[roman.body@atos.net](mailto:roman.body@atos.net)

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The Atos logo is displayed in a bold, blue, sans-serif font. The letters 'A', 't', 'o', and 'S' are connected, with the 't' and 'o' having a unique, rounded shape. The 'S' is also connected to the 'o'.

# Backup

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**Atos**

# The business imperative

## You need...

to compete with digitally-driven businesses that release new services at **speed**



Speed to Market

a low cost, **flexible** platform enabling teams to try out new ideas



Freedom to Innovate

the **frictionless movement** of applications across clouds: build once, run everywhere



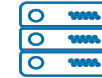
Truly Hybrid

developers to collaborate and deliver secure and robust services with **minimal delay**



Employee Productivity

to **overcome** the constraints and inflexibility of legacy IT without sacrificing previous investments



Leverage Legacy IT

to quickly make enhancements and changes to meet **ever-changing** customer demands.



Responsive

## AMOS provides...

**66% faster development lifecycles**<sup>1</sup> enabling you to deliver services to market faster

Built-in DevOps tooling providing **€1m+ annual benefits** per 100 developers<sup>1</sup>

Powered by the leading opensource container technologies enabling **Full portability across clouds**

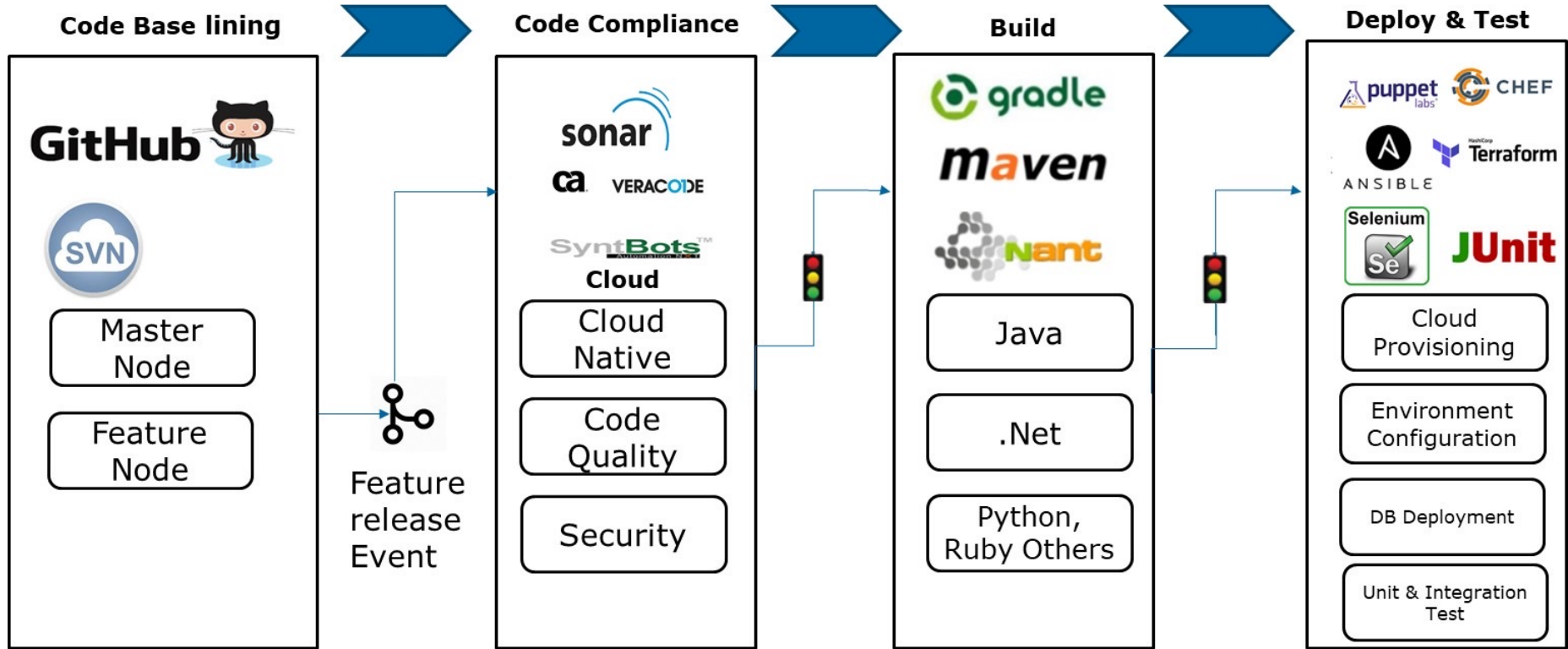
**300% increase in developer productivity**<sup>1</sup> by removing the complexity of platform operations from your teams

A complete solution that **reduces IT staff time by 35% per application**<sup>1</sup> compared to legacy IT environments

A flexible and scalable platform that enables teams to **respond 3 x faster** in delivering enhancements and changes<sup>1</sup>



# Cloud Application Lifecycle



SyntBots DevOps

Not secure | https://52.172.55.147:8445/syntbotsdevops/pages/devopsMain#

SyntBots™ Automation Next

Home | Authoring | Deploy | Process Management | Tasks | Dashboards | Extensions

Find User: syntbots

Explore | New Item | Repository

Search...

Process Modelling | Simulation Results

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graph LR; Start(( )) --> Initiate[Initiate Main Process]; Initiate --> Load[Load Config Process]; Load --> D1{ }; D1 -- Fail --> D1_Fail[Loading Configuration Details Failed]; D1 -- Pass --> Parse[Parse Configuration Data]; Parse --> CCAT[CCAT Process]; CCAT --> D2{ }; D2 -- Fail --> D2_Fail[CCAT Process Failed]; D2 -- Skip --> D3{ }; D3 --> App[Application Server Migration Process]; App --> D4{ }; D4 -- Fail --> D4_Fail[Application Server Migration Process Failed]; D4 -- Pass --> D5{ }; D5 -- Fail --> D5_Fail[Application Server Migration Process Failed]; D5 -- Pass --> DB[Database Migration Process]; DB --> Build[Build Process];
```

Editor | Overview

**Step-3 Migration Profile / Rules - Select CCAT Profile for each application**

Application Name	Repository Name	Trunk Url	Author	Svn Revision	Ccat Profile
<input checked="" type="checkbox"/> jp-accounts-services	SVN_REPO_VM_52.172.55.147	https://52.172.55.147/trunk/migration-repository/	syntbots	1593	Cloud_Native ▾

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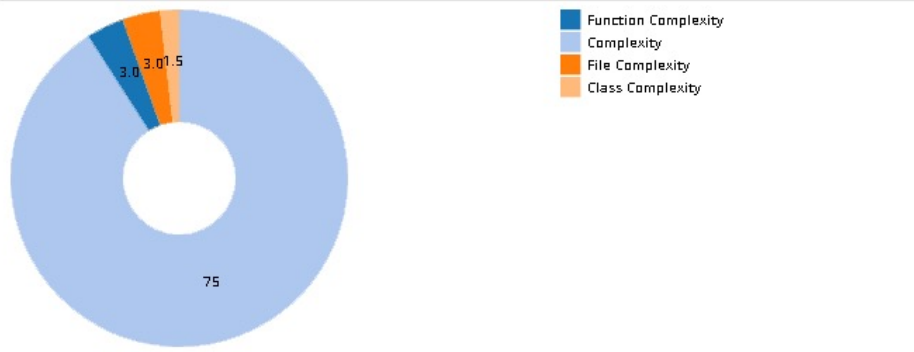
**Active Rules**

Rule Name	Rule Description	Rule Priority	Effort Minutes
SYN_APPLOGGER_METHOD_INVOCATION	CATEGORY : MEASUREABILITY , Desc = Avoid using AppLogger	MINOR	0
SYN_CALLABLE_METHOD_CLOSE	CATEGORY : PERFORMANCE , Desc = Callable is not closed in this method, either close it or check its parent to avoid leak	BLOCKER	0
SYN_CLASSLOADER_METHOD_GET_RESOURCE	CATEGORY : CUSTOMER SPECIFIC , Desc = Method ClassLoader#getResource(), #getClassLoader#getResource* should not be used	BLOCKER	0
SYN_CLOUD_FILEREADER_CHECK	CATEGORY : SCALABILITY , Desc = Avoid using Local FileReader when moving to cloud	BLOCKER	0
SYN_CLOUD_FILEWRITER_CHECK	CATEGORY : SCALABILITY , Desc = Avoid using Local FileWriter when moving to cloud	BLOCKER	0
SYN_CLOUD_FTP	CATEGORY : SCALABILITY , Desc = Don't use 'FTP' for cloud application instead use 'FTPS' to access resource	MAJOR	5
SYN_CLOUD_HARDCODED_IP	CATEGORY : SCALABILITY , Desc = IP addresses should not be hardcoded for cloud application	MAJOR	5
SYN_CLOUD_PROCESSBUILDER_METHOD_INVOCATION	CATEGORY : SCALABILITY , Desc = ProcessBuilder should not be used in cloud application	BLOCKER	5
SYN_CLOUD_PROCESS_METHOD_INVOCATION	CATEGORY : SCALABILITY , Desc = Process should not be used in cloud application	BLOCKER	5
SYN_CLOUD_RUNTIME_METHOD_EXEC	CATEGORY : SCALABILITY , Desc = Method ClassLoader#getResource(), #getClassLoader#getResource* should not be used in cloud	BLOCKER	5

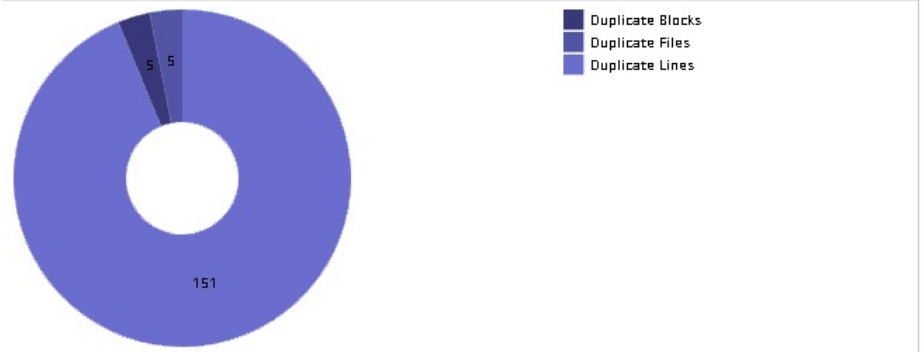
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Migration Analysis Details

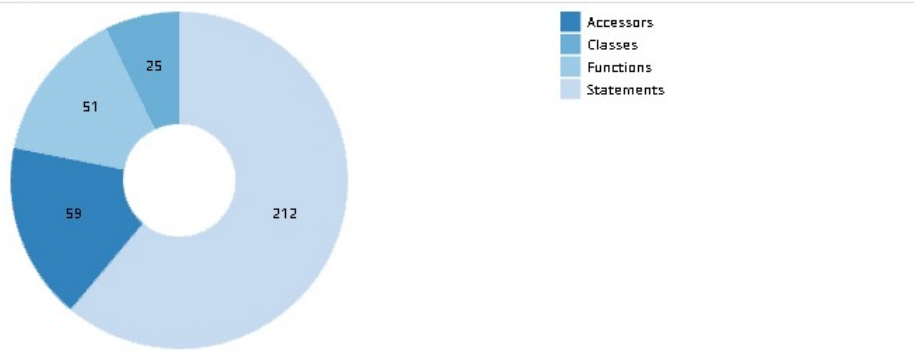
Rule Compliance



Comments and Duplicates



Type of Files



Code Rule Violations

