

collector bank

DevOps på banken

Vilka verktyg använder vi?

Hur och varför?

Mats Iremark



Vad vårt team gör

- Cirka 30 tjänster
- In- och utbetalningar
- Avisering
- Autogiro
- AML/PEP
- Identifikation
- Digital Signering
- Kundsök
- Loggning

Ikväll

- Vårt viktigaste verktyg
- Deployment Pipeline
- Val av verktyg
- Övervakning
- Vad vi värdesätter

team-hakan

team-hakan-build

team-hakan-commits

team-hakan-jira

team-hakan-logs

team-hakan-ops

team-hakan-runscale

TeamCity-00 BOT 4:44 PM ☆
Security DigitalSigning :: Build #7 [started](#)

Build Status

Project
Security DigitalSigning :: Build

Build
7

Status
[started](#)

✓ Security DigitalSigning :: Build #7 [built successfully](#)

Build Status

Project
Security DigitalSigning :: Build

Build
7

Status
[built successfully](#)

collector bank

Bitbucket BOT 3:06 PM
[tinkbridge/master] 2 new commits pushed by marcusnordquist

5537648 Merge branch 'master' of https://bitbucket.org/collectorbank/tinkbridge - Marcus Nordquist
0b33748 🛡️ Checking for valid SSN in ApiController - Marcus Nordquist

Jira BOT 8:24 AM
Stefan Roos created Sub-task MS-2
Frontend Priority Medium

Jira BOT 9:52 AM
Johan Larsson created Bug FAC-59
Mavenita: För långa linor vid filimport Assignee Johan Larsson Priority Medium
Creator Johan Larsson

Jira BOT 9:59 AM
Johan Larsson changed Bug FAC-59 from "In Progress" to "Done"
Mavenita: För långa linor vid filimport Assignee

Johnny Bravo BOT 11:32 AM
Success Deploy Authentication release 0.0.12 to Test (Azure)

Failed Deploy Customersearch release 1.0.105 to Prod (Azure)

Johnny Bravo BOT 1:32 PM
Success Deploy Customersearch release 1.0.105 to Prod (Azure)

10:44 ☆ API test run completed. [View Result](#) - [Edit Test](#)

Common Services: Autogiro

Status	Requests Executed
Passed	1
Environment	Assertions Passed
Test	1 of 1
Location	Scripts Passed
EU2: Germany	0 of 0
Total Response Time	
149ms	

- Mats Iremark** 9:31 PM
Kan du skriva nåt vettigt här?
- Felix Svensson** 9:32 PM
Typ som att ugglor ät det ända djuret som kan se färgen blå? eller vad menar du?
- Mats Iremark** 9:33 PM
Jag ska visa lite screenshots häriifrån till Developer Open Bra du sätter din vanliga standard
- Felix Svensson** 9:34 PM
Vart hittar jag service principal för common services?
- Mats Iremark** 9:34 PM
Det heter var

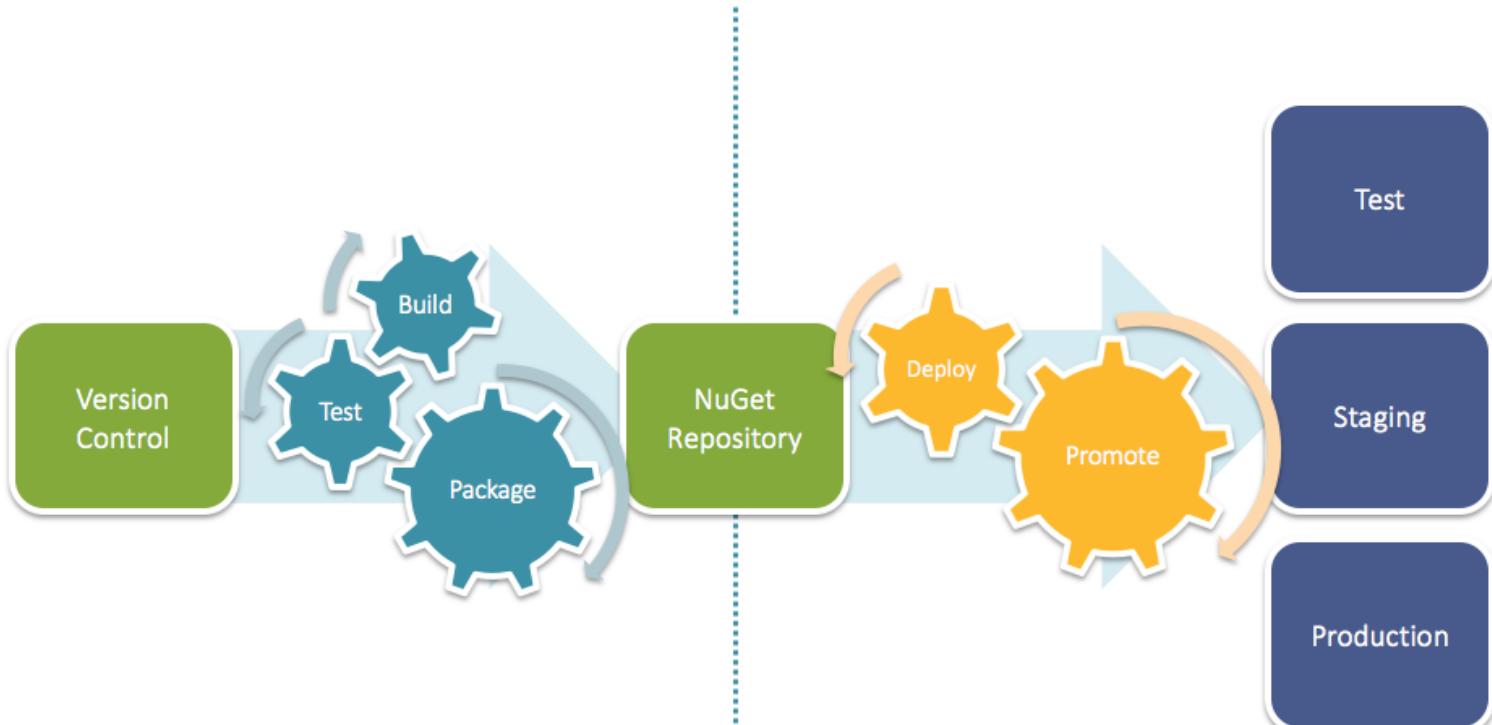




Deployment Pipeline

- Vad är det?
- Automatiska byggen
- Automatiska tester
- Automatiska deployments





TeamCity

Octopus

Bitbucket

- Git-repon
- Användarhantering
- Projekt
- Slack-integration
- Pull requests



team-hakan-commits

7 members | Add a topic



berraDev3] 1 new commit Yesterday, jberra

8d908c8 The interfaces for using the ClaService are now changed and reflects correctly the methods. TODO! Make sure the POST method includes a json string body for the interestedParty. - Behrouz Talebi

Today



Bitbucket BOT 8:16 AM ☆

[autogiro/NachoDev] 5+ new commits pushed by iremmats

79b0cab Merged in berraDev3 (pull request #9)

Berradev3 - Mats Iremark

8d908c8 The interfaces for using the ClaService are now changed and reflects correctly the methods. TODO! Make sure the POST method includes a json string body for the interestedParty. - Behrouz Talebi

c32e889 Final method for Ad

Show more...



Bitbucket BOT 8:37 AM

[autogiro/NachoDev] 5+ new commits pushed by marcusnordquist

71a336b ♠ Refactoring, added BlobStorageSettings, added log4net to Infrastructure, made PaymentId be generated in constructor so that it may be added on the fly, added BlobStorageService, adjusted tests (using todays date as PaymentDate), replaced B4G with BAM or BAG as instructed by [REDACTED] tis 2016-08-23

10:32), implemented download of files from Collector SFTP and adding them to BlobStorage for processing, corrected ExternalReference DateTime formats in FlatFileProcessorBase, Show more...



Bitbucket BOT 8:47 AM

[collectorbank/autogiro] Pull request created by marcusnordquist

TeamCity

- Byggserver i Azure
- .NET/Core
- Nugetpaket
- Slack-integration
- Enkel konfiguration



  Factoring-Valoratrade-Reporting 	1 successful	no hidden  
  Filetransfers From Evry 	1 successful	no hidden  
  Payment Portal 		no hidden  
  Build 		
#253  Tests passed: 76 	No artifacts 	mats.iremark (1) 
17 days ago (3m:17s)		
  Security Authentication 		no hidden  
  Build 		
#2  Success 	No artifacts 	No changes 
3 months ago (1m:11s)		
  Factoring-Efinancing-Reporting 		no hidden  
  Build 		
#7  Success 	No artifacts 	mats.iremark (1) 
one month ago (1m:03s)		
  Factoring-SDK  Factoring SDK		no hidden  
  Build 		
#22  Tests passed: 50 	Artifacts 	johan.larsson (2) 
10 days ago (18s)		
  Common Services  Common Services		no hidden  
  Common - Compliance  AML and PEP service	1 successful	no hidden  
  Common - Pdf Service  Create PDFs automatically	1 successful	no hidden  
  Factoring  Invoice management		no hidden  
  Factoring Valoratrade 	1 successful	no hidden  
  Factoring-Maventa 	1 successful	no hidden  
  Print  All that has to do with print	1 successful	no hidden  

Based on <Root project> :: WebApiTemplate template.

Build Steps

In this section you can configure the sequence of build steps to be executed. Each build step is represented by a build runner and provides integration with a specific build or test tool. [?](#)

[+ Add build step](#) [Reorder build steps](#) [Auto-detect build steps](#)

Build Step	Parameters Description		
Get NuGet packages <i>(inherited)</i>	NuGet Installer Solution: %solutionfile% Execute: If all previous steps finished successfully	View	More ▾
Build VS Solution <i>(inherited)</i>	Visual Studio (sln) Build file path: %solutionfile% Targets: Rebuild Configuration: Release Platform: <default> Execute: If all previous steps finished successfully	View	More ▾
NUnit Test	NUnit Runtime: NUnit 3 auto MSIL Run tests on: *.Tests\bin\Release*.Tests.dll Execute: If all previous steps finished successfully	Edit	More ▾
Create Nuget Package	NuGet Pack Pack: Collector.Compliance.PublicApi/Collector.Compliance.PublicApi.nuspec Collector.Compliance.Sdk/Collector.Compliance.Sdk.nuspec Version: 1.0.%build.number% Execute: If all previous steps finished successfully	Edit	More ▾
Publish to Octopus	OctopusDeploy: Push packages Execute: If all previous steps finished successfully	Edit	More ▾
Publish SDK	NuGet Publish	Edit	More ▾

Octopus Deploy

- Superbra överblick
- Users/groups/roles
- Slack-integration
- ARM-templates
- Sensitive information
- Löser EN uppgift
- Enkel konfiguration



Dashboard

[Configure dashboard](#)

	AML	UAT	Prod
Avanza-AML	 1.0.2 July 19th 2016	 1.0.2 July 19th 2016	
Collector-Aml-Cla	 1.0.2 July 28th 2016	 1.0.2 July 28th 2016	

	Common	Test	UAT	Prod
Autogiro		 1.0.39 August 29th 2016	 1.0.12 August 22nd 2016	 1.0.12 August 22nd 2016
Compliance		 1.0.11 August 18th 2016	 1.0.9 August 10th 2016	 1.0.9 August 10th 2016
PdfService		 1.0.11 June 15th 2016	 1.0.11 June 15th 2016	 1.0.11 June 15th 2016
SmsGateway			 1.0.1 July 21st 2016	 1.0.1 July 21st 2016
Terms				 1.0.39

BRA

Autogiro > Process



Autogiro

Create release

Overview

Process

Variables

Channels

Releases

Settings

Service for handling consents for
Autogiro

Deployment process

1. Create Resources

Deploy an Azure Resource Manager Template

2. Deploy Azure Web App

Deploy an Azure Web App **collector-autogiro** from Octopus Server (built-in)

3. Slack - Notify Deployment

Run a script across targets in roles: **Azure**

Add step Reorder steps

Project Lifecycle

Standard-Test-Uat-Prod



Choose a different lifecycle

This lifecycle defines how releases can be promoted between environments. Lifecycles can be defined in the [Library](#).
This is the default lifecycle for the project. It can be overridden by specifying [Channels](#).

Automatic Release Creation

Create a release when a package is pushed to the built-in package repository

Release Creation package step

Deploy Azure Web App

When the package for the selected step is pushed to

DÅLIGT

Deployment process

1. Overwrite preproduction with production

Run a PowerShell script across machines in roles: **db-server**

Only in **Preproduction**

2. Download and extract database package

Deploy NuGet package **SimpleTalkDatabase** from **TeamCity Nugget Feed** to machines in roles:

db-server

Only in **Preproduction**

3. Create database update resources

Run a PowerShell script across machines in roles: **db-server**

Only in **Preproduction**

4. Review database update resources

Manual intervention

Only in **Preproduction**

5. Run the update script

Run a PowerShell script across machines in roles: **db-server**

Only in **Production** **Preproduction**

Add step Reorder steps

✓	ResourceGroup	Group-Autogiro-TEST	Test
✓	ResourceGroup	Group-Autogiro-UAT	UAT
✓	ResourceGroup	Group-Autogiro-PROD	Prod
✓	SqlAdminPassword	••••••••••	UAT
✓	SqlAdminPassword	••••••••••	Test
✓	SqlAdminPassword	••••••••••	Prod

Slack - Notify Deployment

This step is based on a [custom step template](#).

Webhook URL

`https://hooks.slack.com/services/`



The Webhook URL provided by Slack, including token.

Channel handle

`#team-hakan-build`



Which Slack channel to post notifications to.

Icon URL

`#{automation-cat-url}`



The icon to use for this user in Slack

Username

`Hurricane Gilbert`



The username shown in Slack against these notifications

Include machine name



Should machine name be included in notification to Slack?





Mr Smith BOT 10:35 AM ☆

Success

Deploy Logservice V2 release 1.0.6 to Test (Azure)



Hurricane Gilbert BOT 12:08 PM

Success

Deploy Factoring-Maventa release 1.0.56 to UAT (Azure)



Daniel Kamcevski 9:08 PM

Haha checkout lirade Mario Kart när jag gick. Team Håkan hade vunnit med
förbundna ögon.

Övervakning

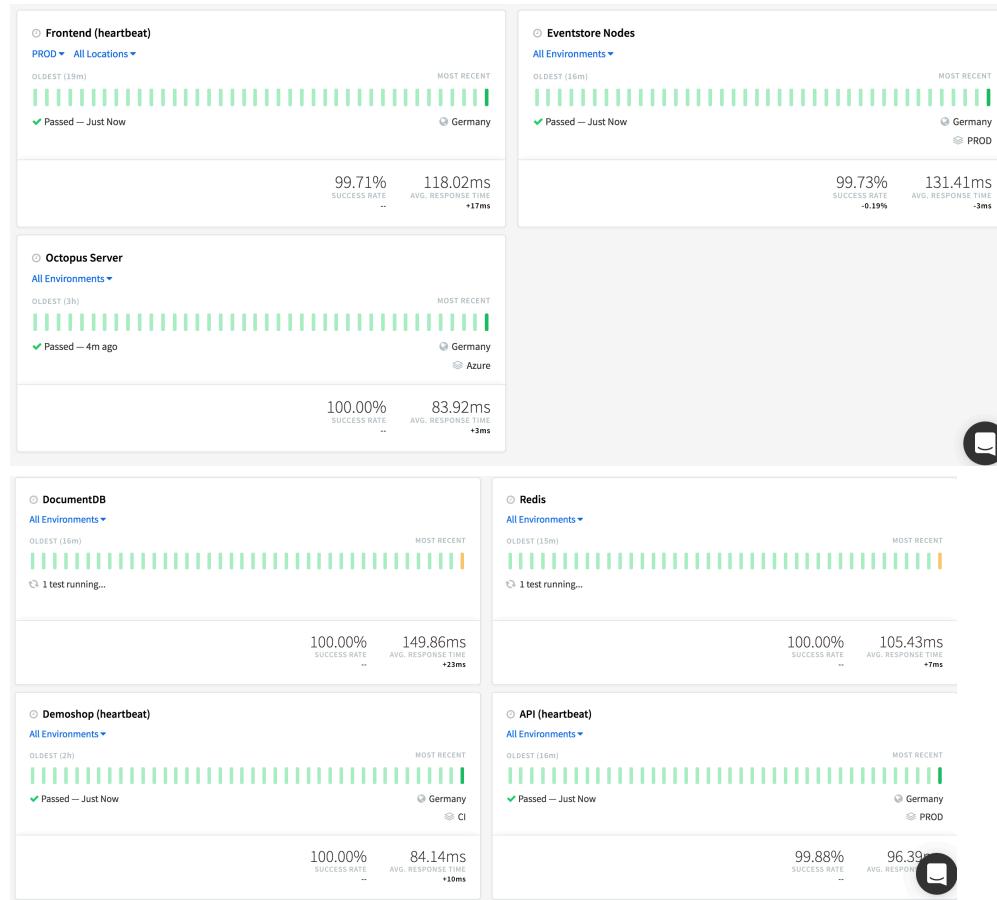


pagerduty

Runscope

- Monitorerar APIer
- Heartbeat APIer
- Delegera ansvar
- Bästa testet?





Cloudmonix

- Övervaka infrastruktur
- Primärt köer/topics
- Cpu/minne/disk irrelevant
- Betala per resurs



Pagerduty

- Notifiera rätt person(er)
- Inga onödiga larm
- Modernt api
- Larm stänger av sig själv

The logo for Pagerduty, featuring the company name in a bold, lowercase, sans-serif font. The letters are a vibrant green color.

Incidents

[+ Create New Incident](#)

Your open incidents

0 triggered 0 acknowledged

All open incidents

1 triggered 0 acknowledged[Open](#) [Triggered](#) [Acknowledged](#) [Resolved](#) [Any Status](#)[Assigned to me](#) [All](#)

Selected Incidents:

[! Acknowledge](#)[Reassign](#)[Resolve](#)

Go to incident #:

<input type="checkbox"/>	Urgency	#	Created On	Details	Service	Assigned To	Status	
<input type="checkbox"/>	High	44292	at 6:45 PM	Error in integration CreateCardForNewCustomer.BPart ErrorMessage: System.Data.SqlClient.SqlException (0x80131904): Connection Timeout Expired. The timeout period elapsed while attempting to consume the pre-login handshake acknowledgement. This could be because the	ErrorsFromSystemLogs	Team Håkan	Triggered	Details +

1-1

Per Page:

25



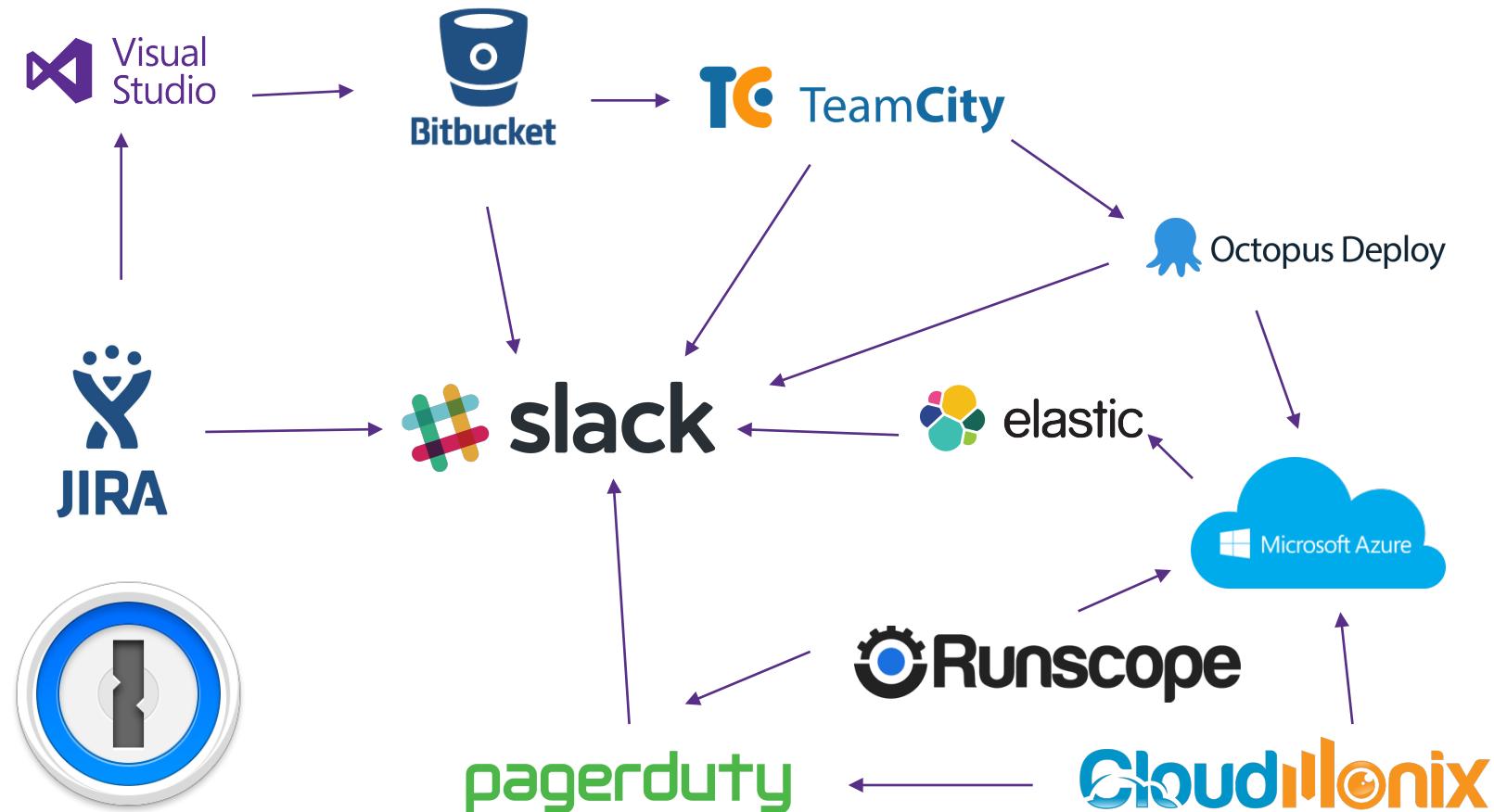
Selected Incidents:

[! Acknowledge](#)[Reassign](#)[Resolve](#)

Go to incident #:

Sammanfattning

- Slack
- Deployment pipeline
- Övervakning
- Kontinuerlig återkoppling
- Best of Breed



collector bank

Frågor!