



Community Case Study – Xerox DevOps

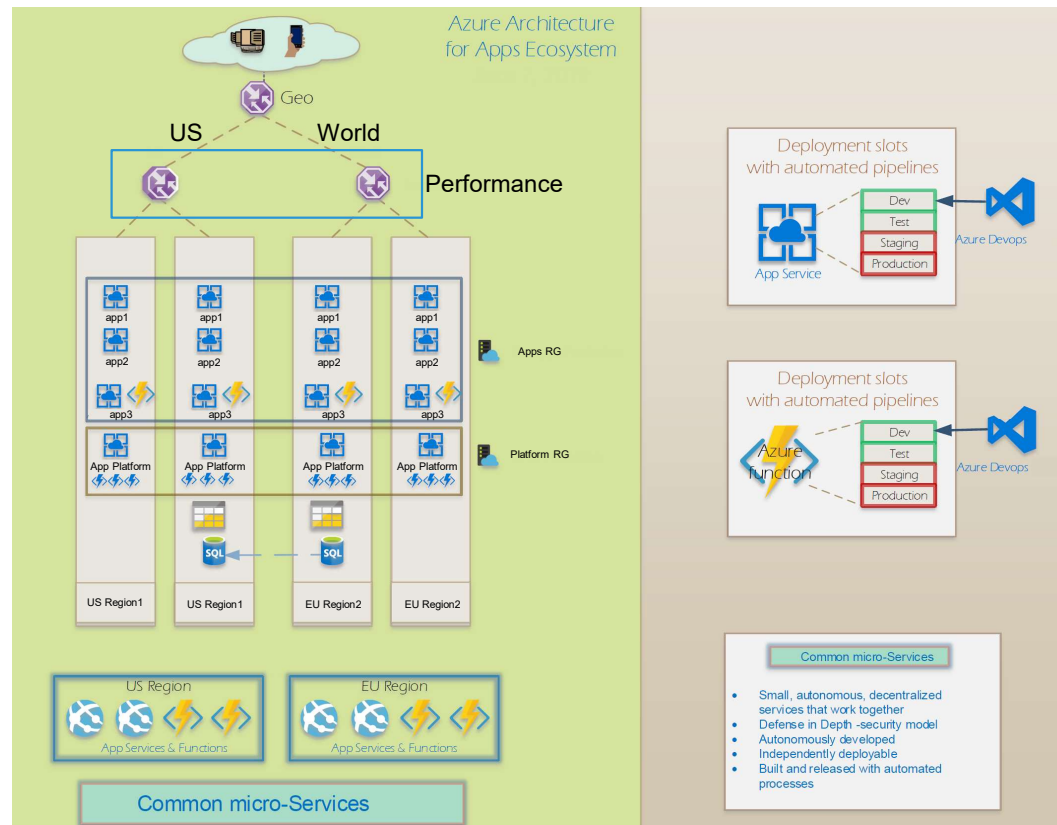
A ___Ops Perspective

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xerox™

What does Ops care about?

Standard Architecture

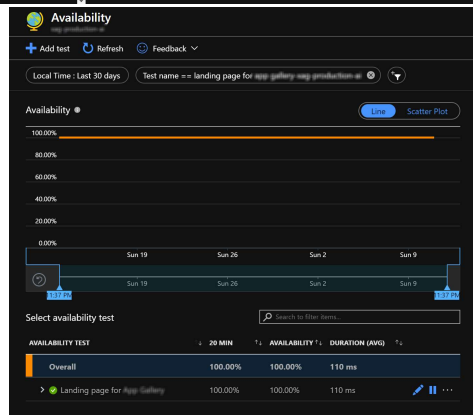
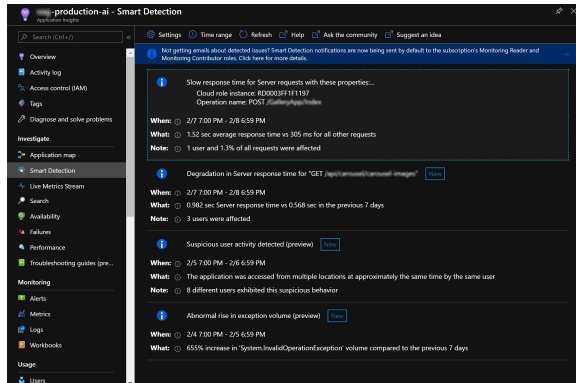


Infrastructure as PowerShell

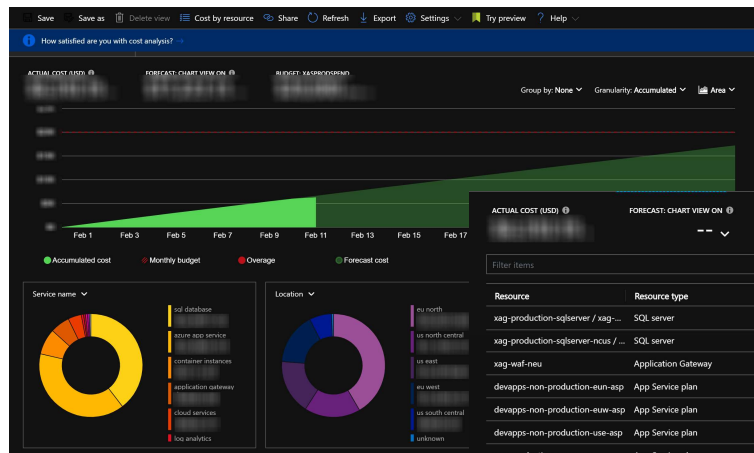
The screenshot displays the Azure DevOps web interface for a repository named 'XeroxESS-DevopsAutomation'. The left sidebar shows navigation options: Overview, Boards, Repos, Files, Commits, Pushes, Branches, Tags, Pull requests, Pipelines, and Test Plans. The 'Files' view is active, showing a file tree with folders 'Functions' and 'TestHarness', and files 'build.ps1', 'CreatePaidApp.ps1', 'GeoHaApp.psm1' (selected), and 'PrepScript.ps1'. The main pane shows the content of 'GeoHaApp.psm1' on the 'master' branch. The script is a PowerShell function named 'Create-SQLDatabase' that takes parameters for application name, resource group, size, environment choice, server name, and failover group name. It includes logic to validate the environment choice and set default database sizes for 'Production', 'Stage', 'Test', and 'Development' environments.

```
1
2 #Reference https://www.business.com/articles/powershell-modules/
3 $CreateHAWebApp = "Create GEO HA Apps for the app gallery"
4
5 function Create-SQLDatabase{
6 Param(
7 [Parameter(Mandatory = $True)]
8 [string] $AppName,
9 [Parameter(Mandatory = $True)]
10 [string] $RG,
11 [Parameter(Mandatory = $False)]
12 [string] $Size,
13 [Parameter(Mandatory = $True)]
14 [ValidateSet("Production", "Stage", "Test", "Development")]
15 [string] $EnvironmentChoice,
16 [Parameter(Mandatory = $True)]
17 [string]$DBServerName,
18 [Parameter(Mandatory = $True)]
19 [string]$FailoverGroupName
20 )
21 $DBName = "devapps-" + $EnvironmentChoice + "-db-" + $AppName
22 #Set default db sizes
23 If($EnvironmentChoice -like "Production" -or $EnvironmentChoice -like "Stage"){if(!$Size
24 If($EnvironmentChoice -like "Test" -or $EnvironmentChoice -like "Development"){if(!$Size
```

Monitoring



Cost Management



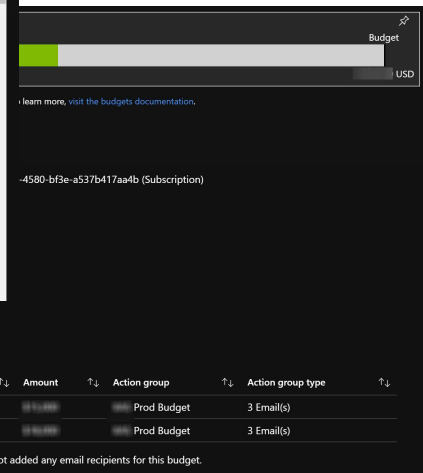
ACTUAL COST (USD) | FORECAST: CHART VIEW ON | BUDGET: XASPRODSPEND

Group by: Resource | Granularity: None | Table

Filter items

1017 rows

Resource	Resource type	Location	Resource group name	Tags	Cost
xag-production-sqlserver / xag-	SQL server	eu north	xag-production	environment:prod, appname:sp...	1017000
xag-production-sqlserver-ncus / ...	SQL server	us north central	xag-production	environment:prod, appname:sp...	1017000
xag-waf-neu	Application Gateway	eu north	xag-production	Not applicable	1017000
devapps-non-production-eun-as	App Service plan	eu north	devapps-production	Not applicable	1017000
devapps-non-production-euw-as	App Service plan	eu west	devapps-production	Not applicable	1017000
devapps-non-production-use-as	App Service plan	us east	devapps-production	Not applicable	1017000
xag-production-ncus-as	App Service plan	us north central	xag-production	environment:prod, appname:sp...	1017000
devapps-non-production-use-as	App Service plan	us south central	devapps-production	Not applicable	1017000
xas-mid-prod-us	Cloud service (classic)	us east	xas-mid-prod-us	Not applicable	1017000
xas-mid-prod-eu	Cloud service (classic)	eu north	xas-mid-prod-eu	Not applicable	1017000
devapps-production-euw-as	App Service plan	eu west	devapps-common-services	Not applicable	1017000
devapps-production-eun-as	App Service plan	eu north	devapps-common-services	Not applicable	1017000
devapps-production-use-as	App Service plan	us east	devapps-common-services	Not applicable	1017000
devapps-production-eun-as	App Service plan	eu north	devapps-production	Not applicable	1017000



Evolution of Change Management

Past

- Standard change template for all work orders/ITIL
- Applications all on IaaS
- 3 Phase approval process in ITSM tool
- Change requests and Work Items in different systems
- Service validation and evaluation is mostly manual
- Manual deployments

Present

- Automation for work orders
- Legacy apps on IaaS, new apps on PaaS
- Approvals in Azure DevOps and ITSM tool
- Change requests and Work Items still in different systems
- Service validation and evaluation is being automated
- Deployments automated

Future

- No need for work orders
- Legacy apps transformed and using PaaS
- Approval completely in Azure DevOps
- Work Items drive all work in single system
- Service validation automated
- Development feedback mechanism

Questions?

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