

Automated deployments for eProcurement development

Speaker: Egor Stambakio

OpusCapita

eProc product line



Shop



Order



Inventory



Quote



Supplier
Information



Catalog Portal



Document Portal



Product
Information



User and Master
Data

Development tools



Mail server



Keycloak
(admin:admin37)



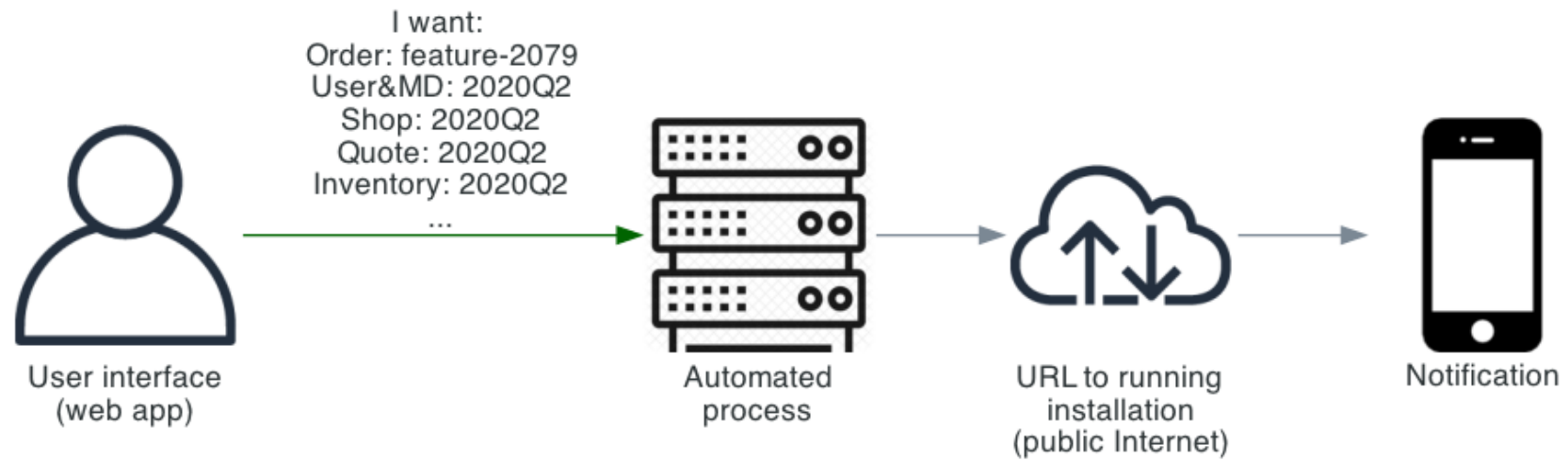
OCI test



Cloud Shell

Use cases

- test integration between several applications (for example Shop -> Procurement order flow)
- execute automated tests in browser
- test manually in browser
- showcase installations, presentations



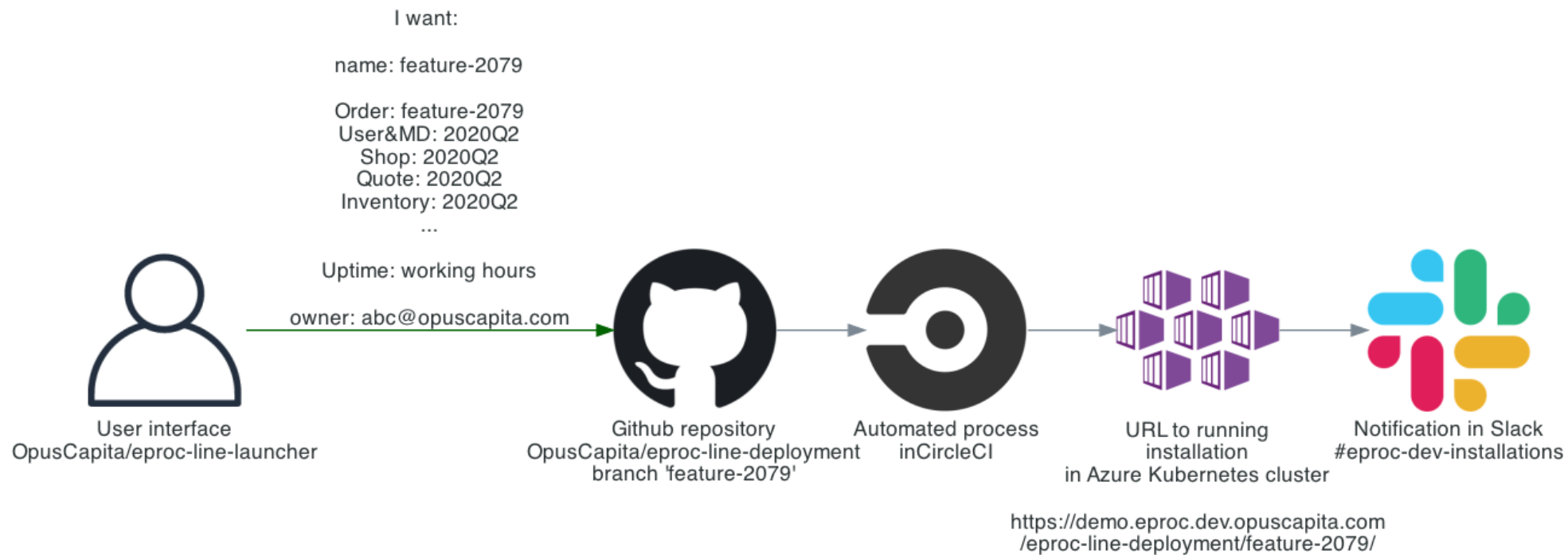
How it should work

We also want:

- **repeatable builds** (2 QA have 2 equal deployments)
- **easy configuration** (everyone can do it)
- **persistent configuration** (how it was configured?)
- **observability** (how many do we have? do they cost money? who created this deployment? does this person really need 5 installations at once?)
- **automated operations** (no need to ask anyone to create, update or delete installation)
- **cost efficiency** (consume cloud resources only when needed)

How it's achieved:

- **repeatable builds** - Continuous Integration (CircleCI)
- **easy configuration** - User interface (web application)
- **persistent configuration** - Github
- **observability** - list of installations on UI and messages in Slack channel, with all relevant information (owner(s), uptime status, etc.)
- **automated operations** - Continuous Integration (CircleCI)
- **cost efficiency** - every installation can be turned On/Off, or work only during the working hours



How it is implemented

User Interface

Github: [OpusCapita/eproc-line-launcher](https://github.com/OpusCapita/eproc-line-launcher)

<https://demo.eproc.dev.opuscapita.com/eproc-line-launcher/master/>

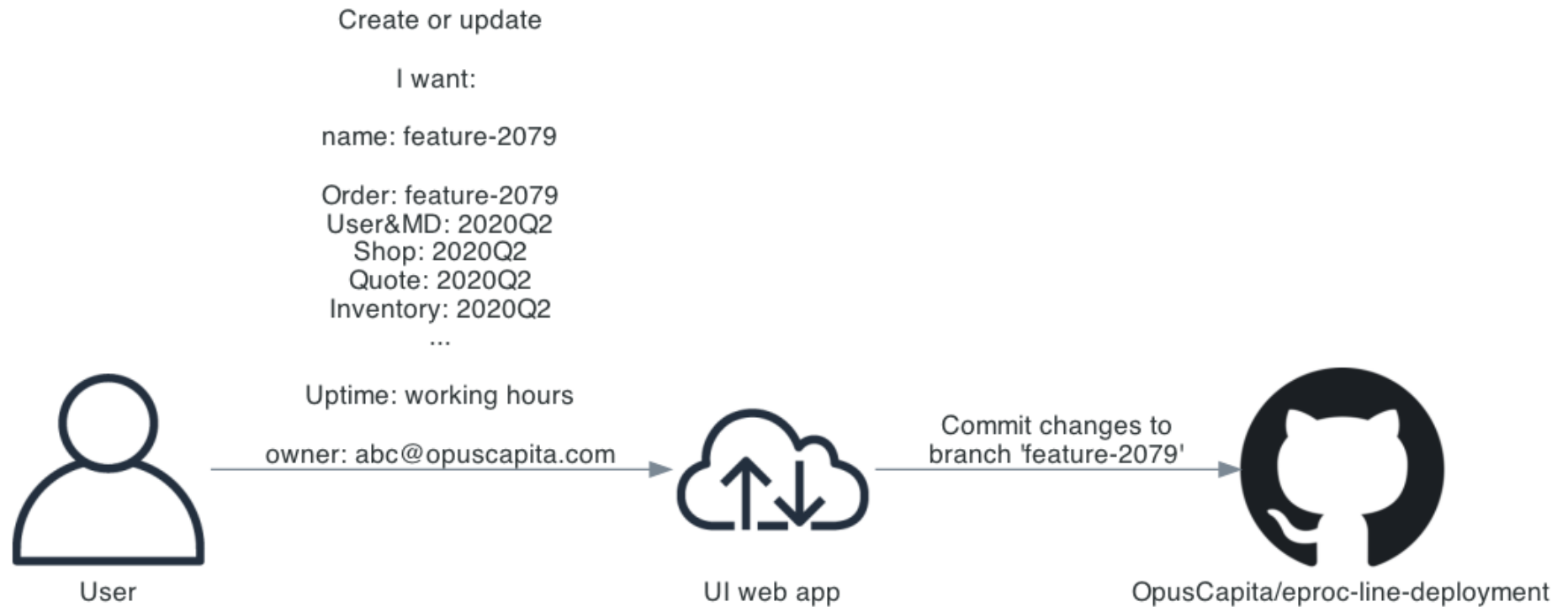
eProc Deployment Configuration

[Create](#)

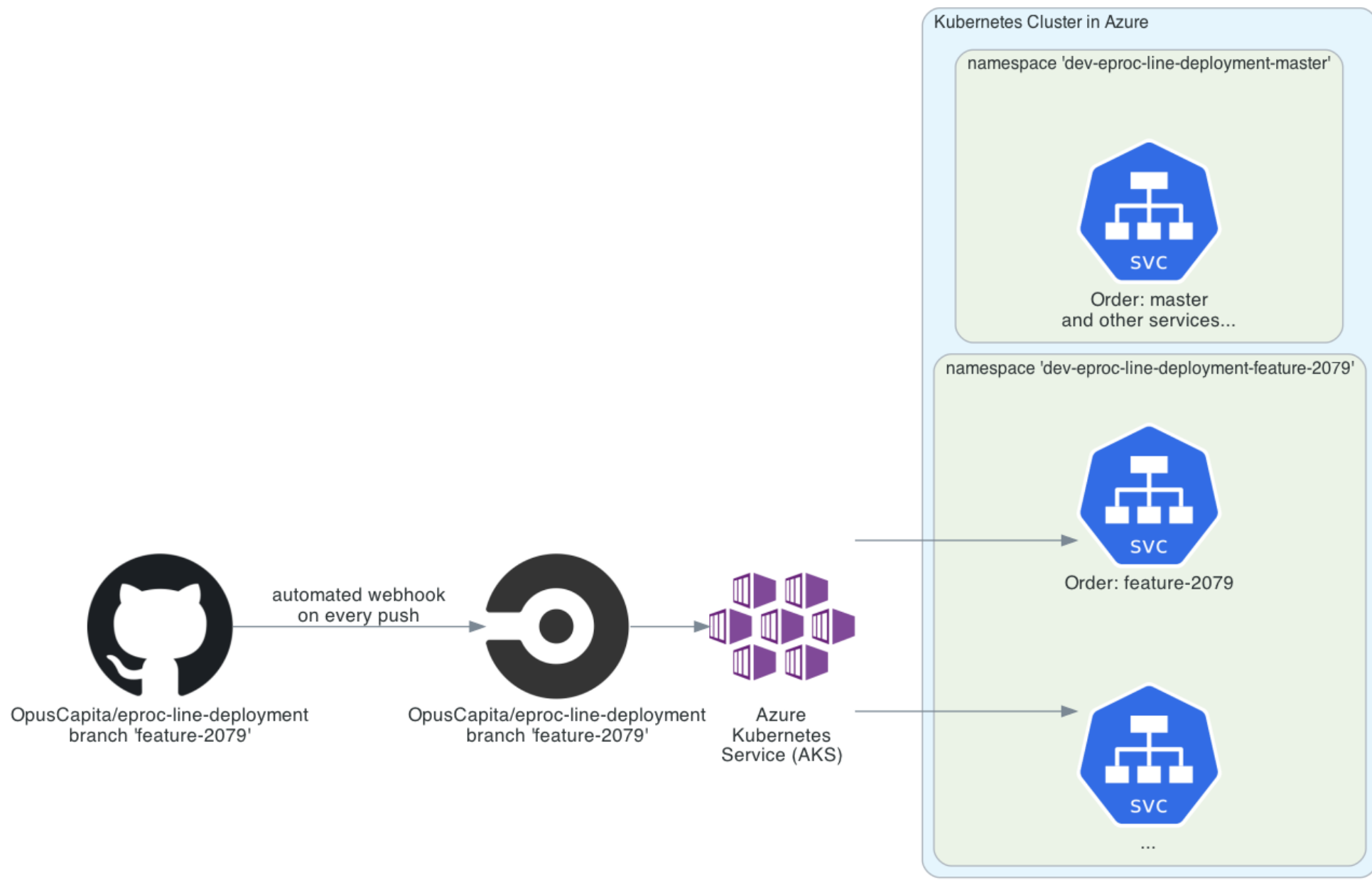
Name	Owner	Desired uptime					
	<input type="text" value="Start typing..."/> <input type="button" value="x"/> <input type="button" value="v"/> <input type="checkbox"/> Me	<input type="button" value="x"/> <input type="button" value="v"/>					
2020.2.x	egor.stambakio@opuscapita.com	<input type="button" value="never"/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>		
ActiveUsersCount	Alexandr.Shestak@opuscapita.com	<input type="button" value="never"/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
amotuz-master	Anna.Motuz@opuscapita.com Alexandr.Shestak@opuscapita.com	<input type="button" value="never"/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Andrew	egor.stambakio@opuscapita.com	<input type="button" value="working..."/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Andrew-2019Q4	Andrew.Spevak@opuscapita.com	<input type="button" value="never"/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
automation			<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
autoprovisioning	dmitry.divin@opuscapita.com	<input type="button" value="working..."/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
bark-eproc-20008	Andrei.Barkouski@opuscapita.com	<input type="button" value="never"/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
catalogversion_new	Artem.Osipenko@opuscapita.com	<input type="button" value="working..."/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
copy-of-EPROC-20016-OPC-14752-maintenance-mssql	Alexandr.Shestak@opuscapita.com	<input type="button" value="never"/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
dtormanov-2020.2	Denis.Tormanov@opuscapita.com	<input type="button" value="never"/> <input type="button" value="v"/>	<input type="button" value="CI"/>	<input type="button" value="Visit"/>	<input type="button" value="Copy and edit"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

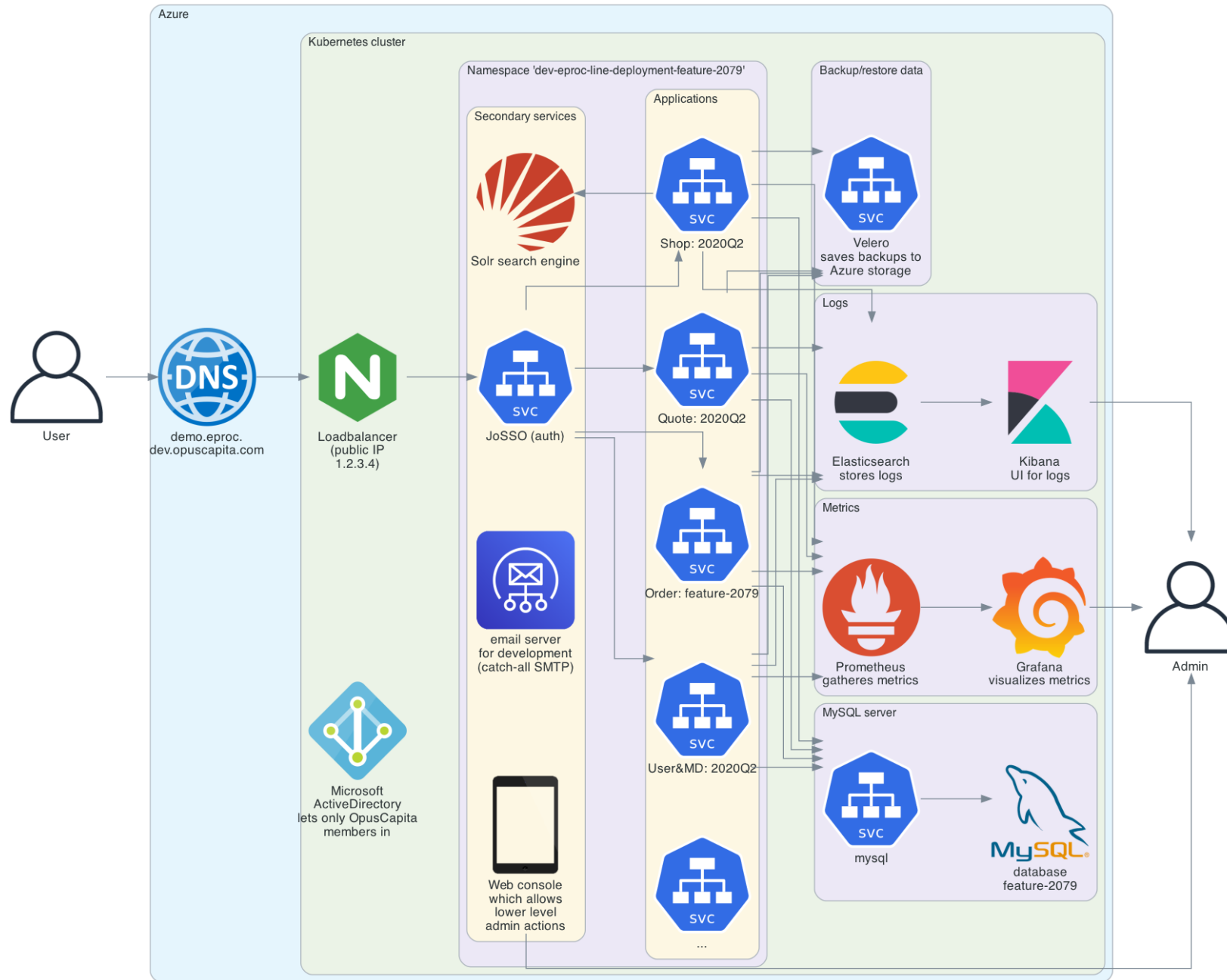
Configuration storage

- Configuration is stored in **Github**
- Repository: [OpusCapita/eproc-line-deployment](#)
- **Installation is a branch** in this repository
- **All configuration** for installation is found on its branch
- To **delete installation** it is enough to delete its branch on Github. Automation will do the rest



How user interface works with Github





Slack

#eproc-dev-installations

- daily digest with installations per owner
- notifications when installation is created or updated



eproc-dev-installations-bot APP 07:15

eProc deployments summary: 56 branches

Owners:

- @stambakio:



2020.2.x



master



prov-autotests

- @ashestak:



ActiveUsersCount



EPROC-20016-OPC-14752-

maintenance



OPC-20240-amazon-price-

actualization



amotuz-master

Availability:



28 never



27 workingHours



1 always



eproc-dev-installations-bot APP 18:56

Deployment **Kitaev-opc-20279** owned by **@kitaev** is up after **12m59.628s**

Apps: OPC, PIM, PROC, PROV



Desired uptime: workingHours



ekitaev-sc made **changes** Oct 8

Visit

Edit



eproc-dev-installations-bot APP 19:21

Deployment **shynkevich-OPC-20285** owned by **@shinkevich** is up after **17m5.353s**

Apps: INVT, OPC, PROV



Desired uptime: workingHours



ishinkevich-sc made **changes** Oct 8

Visit

Edit

Thank you!

Questions? :)