

The Secrecy of DevOps

What we do in the shadows?

Michał Borkowski

<https://norasoft.eu/talks/secrecy-of-devops/en.html>

Let's talk about...

- What we do in the shadows? And why?
- Secure local environment
- Automation
- External services
- Secure deployment

Secrets and credentials

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where to store and how to pass around

Secrets and credentials

where to store and how to pass around

- in local environment
- during a build
- in runtime

Why bother?

Why bother?
BBC

Why bother?

BBC

Because

Why bother?

BBC

Because

Benedict

Why bother?

BBC

Because

Benedict

Cumberbatch

Project secrets

Project

```
def main():  
    with open('secret.yml', 'r') as secret:  
        secrets = yaml.load(secret, yaml.Loader)  
  
        message = f'''  
        Login credentials:  
        username: {secrets['secret']['username']}  
        password: {secrets['secret']['password']}  
        '''  
        print(message)
```

Alpha version

secret.yml

```
secret:  
  username: user  
  password: secretpassword
```

Alpha version

secret.example.yml

```
secret:  
  username: <not-my-user>  
  password: <not-a-password>
```


Beta version

secret.yml.gpg

```
{  
  #Yc ã°8 ýÒa É"J@}o÷ ®±ÄMoHõ Mjßõjÿ  
¿5· ,h iV®> g ¹ wÛˆ Û ? lËè èë ·f'[é  
Ðè$$Û{ 0é ç[äp úg°°×®K¾ ¾ ãb`Ë|ö
```

Beta version

secret.yml.gpg

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```

encrypt.sh

```
gpg --symmetric --cipher-algo AES256 --batch  
--passphrase=very-secret-passphrase secret.yml
```


How do we automate this?

Are the secrets safe?

Artifacts

Produced during runtime

Name

Size



my-artifact

3 Bytes



Let others worry
about my secrets

