

# Lazy devops' guide to SSO with Kerberos

Aymeric Augustin - DjangoCon Europe - May 14th, 2014

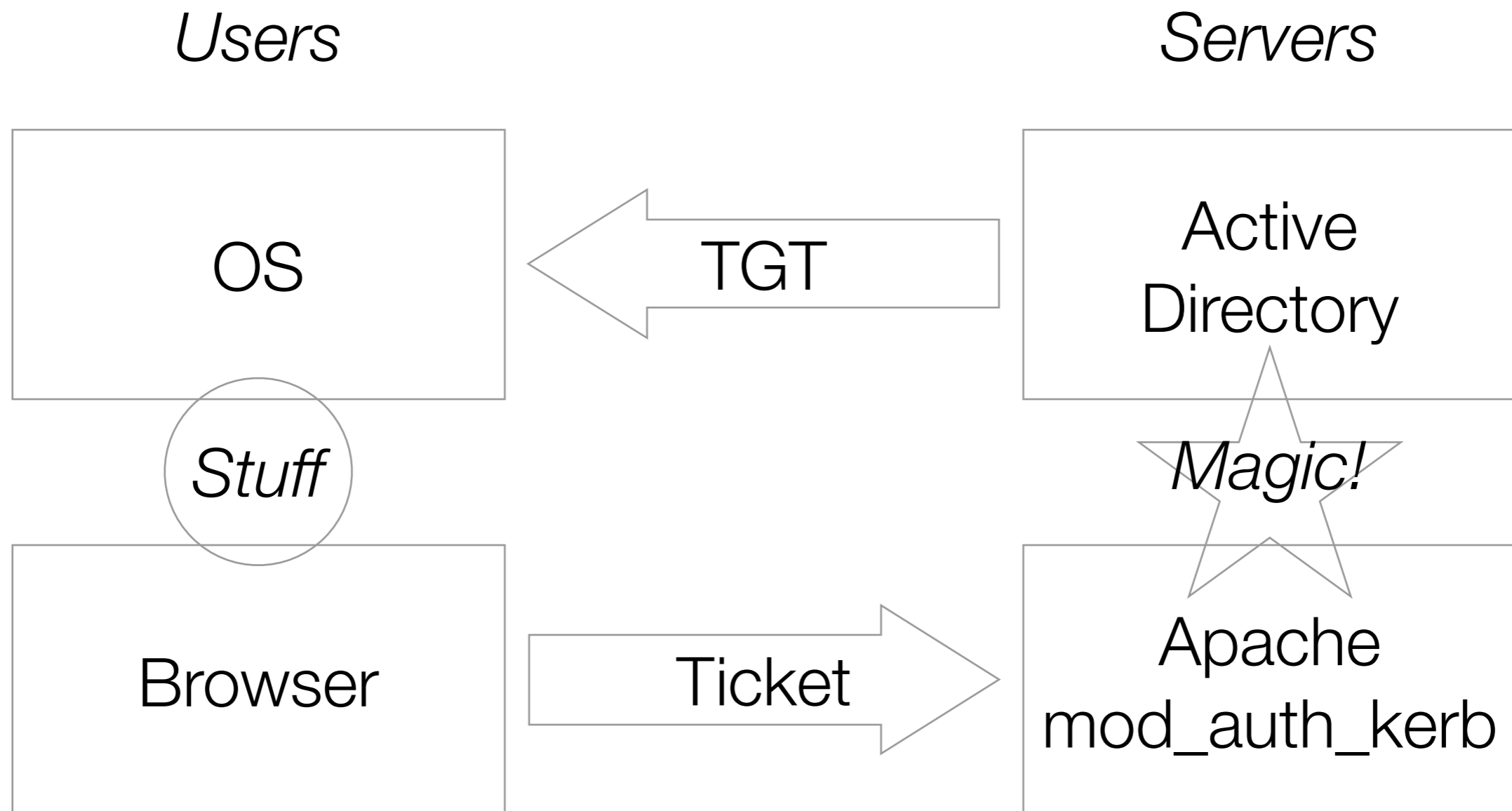
# Goal

---

- Provide Single Sign-On (SSO) to an internal application
  - Authentication — not authorization
  - On a private network — not over the Internet

# How it works

---



# Server setup

# Create a keytab

---

```
# msktutil --update --computer-name service \
           --keytab /etc/apache2/service.company.com.keytab \
           --service HTTP

# chown root:www-data /etc/apache2/service.company.com.keytab
# chmod 640          /etc/apache2/service.company.com.keytab
```

# Configure Apache

---

```
<Location />  
  AuthName "use your corporate login to access this service"  
  AuthType Kerberos  
  
  KrbServiceName HTTP/service.company.com@COMPANY.COM  
  Krb5KeyTab /etc/apache2/service.company.com.keytab  
  
  KrbMethodK5Passwd Off  
  KrbLocalUserMapping On  
  
  Require valid-user  
</Location>
```

# Configure Django

---

```
MIDDLEWARE_CLASSES = [  
    # ...  
    'django.contrib.auth.middleware.AuthenticationMiddleware',  
    'django.contrib.auth.middleware.RemoteUserMiddleware',  
    # ...  
]
```

```
AUTHENTICATION_BACKENDS = [  
    'django.contrib.auth.backends.RemoteUserBackend',  
]
```

<https://docs.djangoproject.com/en/stable/howto/auth-remote-user/>

# Client setup



# Windows





---

- It Just Works.

# OS X





**Ticket Viewer**

Add Identity Remove Identity Set as Default Change Password

**aymeric.augustin@** [REDACTED]

  Ticket expires on 12/05/14 20:30

# Linux or Unix

---

```
% kinit aymeric.augustin@COMPANY.COM  
Password for aymeric.augustin@COMPANY.COM:
```

```
% klist  
Ticket cache: FILE:/tmp/krb5cc_501  
Default principal: aymeric.augustin@COMPANY.COM
```

```
Valid starting      Expires            Service principal  
05/12/14 10:30:00  05/12/14 20:30:00  krbtgt/  
COMPANY.COM@COMPANY.COM  
    renew until 05/13/14 10:30:00
```

# Internet Explorer

---



- It Just Works.

# Firefox



The screenshot shows the Firefox browser window at the `about:config` page. A search bar at the top contains the text "Rechercher : negotiate". Below the search bar, a table lists configuration options related to "negotiate". The table has four columns: "Nom de l'option", "Statut", "Type", and "Valeur". The option `network.negotiate-auth.trusted-uris` is highlighted in blue, indicating it is the selected result.

Nom de l'option	Statut	Type	Valeur
<code>network.negotiate-auth.using-native-gsslib</code>	par défaut	booléen	true
<b><code>network.negotiate-auth.trusted-uris</code></b>	<b>défini par l'utilisateur</b>	<b>chaîne</b>	<b>.company.com</b>
<code>network.negotiate-auth.gsslib</code>	par défaut	chaîne	
<code>network.negotiate-auth.delegation-uris</code>	par défaut	chaîne	
<code>network.negotiate-auth.allow-proxies</code>	par défaut	booléen	true
<b><code>network.negotiate-auth.allow-non-fqdn</code></b>	<b>défini par l'utilisateur</b>	<b>booléen</b>	<b>true</b>

# Chrome, Safari

---

- It Mostly Works.

# Thank you!

<https://gist.github.com/aaugustin/10715655>