



MS Active Directory. Change password Web UI

Final EPAM DevOps WinterProgram project.

Made by Anatolii Hrebynakha

Why Active Directory?

- ☐ on premise active directory does not have web UI
- ☐ it interesting for me (as my work too)
- ☐ users can't changing password if they do not have PC on Windows
- ☐ users have problems with changing their password

What is Active Directory now?

- ☐ MS Azure Active Directory
- ☐ AWS MS Directory Service
- ☐ AWS Directory Connector
- ☐ On-premises Active Directory
- ☐ OpenLDAP

Simple change password

- ☐ Make process of changing password more simple
- ☐ Reset the users password if they have forgotten it
- ☐ Make changing password more secure

MS Active Directory Server

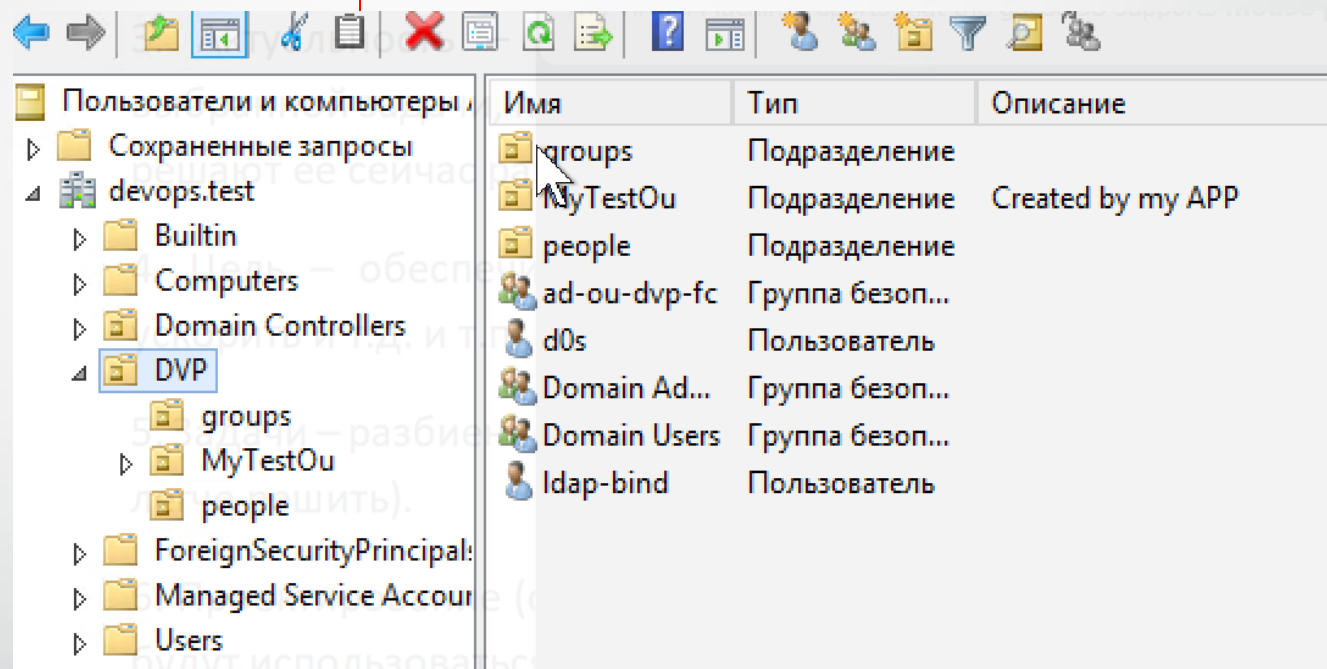
- ☐ Deployment Active Directory
- ☐ Install Certificate Authority
- ☐ Setting LDAPS up
- ☐ Create test user

AD DS

Install-WindowsFeature AD-Domain-Services
Import-Module ADDSDeployment

Install-ADDSForest `

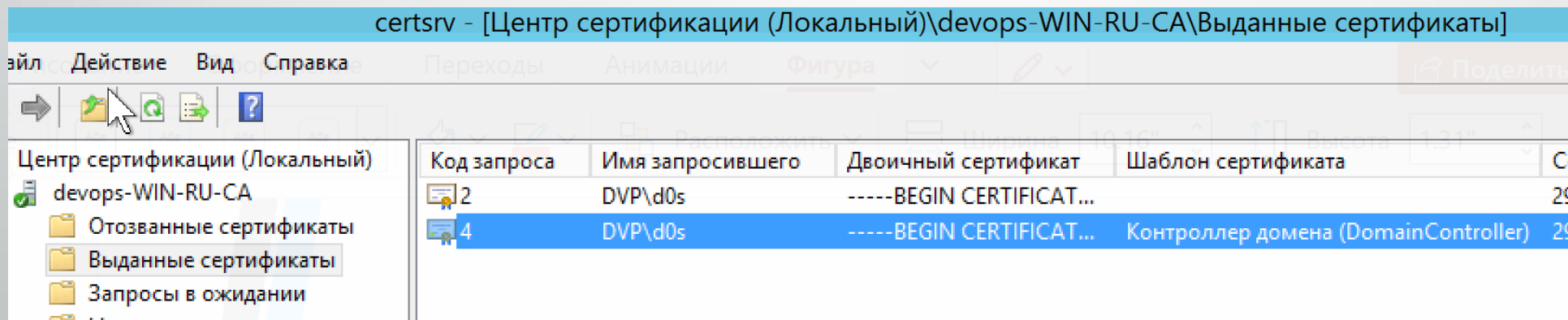
-CreateDnsDelegation:\$false `
-DatabasePath "C:\Windows\NTDS" `
-DomainMode "Win2012R2" `
-DomainName "devops.test" `
-DomainNetbiosName "DEV" `
-ForestMode "Win2012R2" `
-InstallDns:\$true `
-LogPath "C:\Windows\NTDS" `
-NoRebootOnCompletion:\$false `
-SysvolPath "C:\Windows\SYSVOL" `
-Force:\$true



Имя	Тип	Описание
groups	Подразделение	
MyTestOu	Подразделение	Created by my APP
people	Подразделение	
ad-ou-dvp-fc	Группа безоп...	
d0s	Пользователь	
Domain Ad...	Группа безоп...	
Domain Users	Группа безоп...	
ldap-bind	Пользователь	

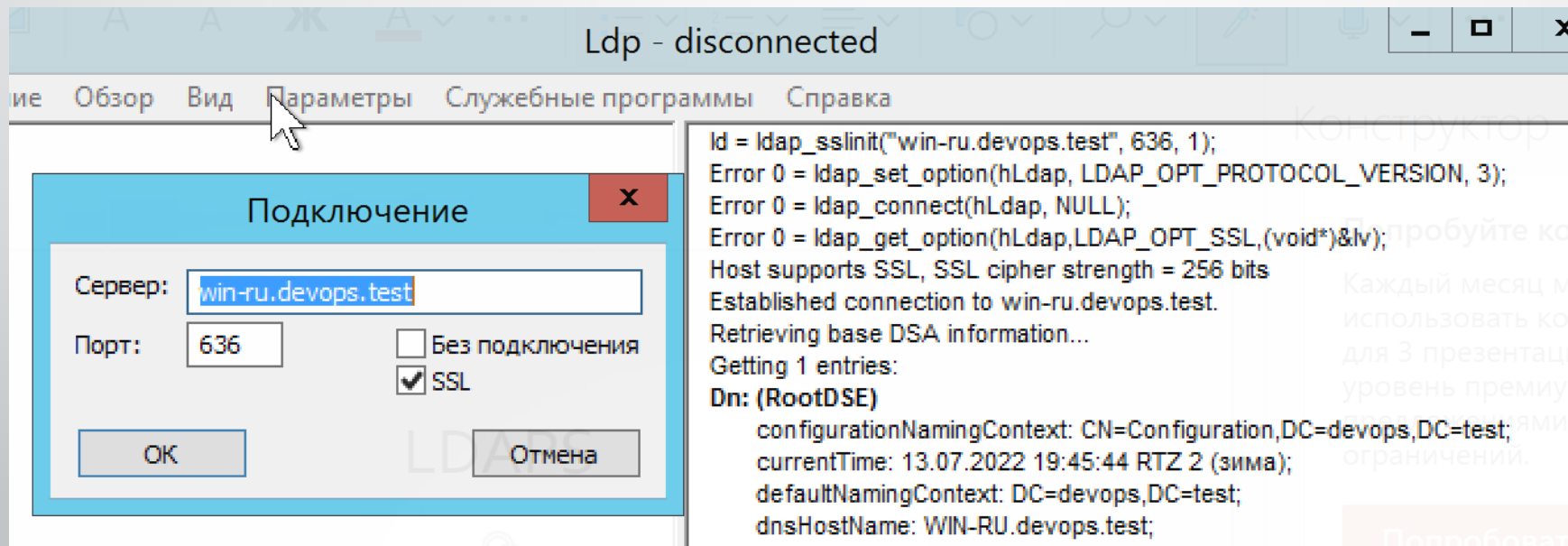
CA

```
Install-CertificationAuthority -CAName "My Root CA" -CADNSuffix  
"OU=Information Systems, O=Sysadmins LV, C=LV" -  
-CAType  
"Standalone Root" -ValidForYears 10
```



LDAPS

- Without LDAPS user can't change password
- Must be install certificate on DC
- *Ldp > Connect ServerName 636 port, SSL*



Jenkins

- ☐ Deploy Jenkins
- ☐ Setting up node for Jenkins
- ☐ Create job

Launch method ?

Launch agents via SSH

Host ?

176.126.60.243

Credentials ?

jenkins (node-1 go-cloud)

+ Add

Git

- ☐ Create (fork) git repository
- ☐ Setting WebHook for Jenkins

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, `x-www-form-urlencoded`, etc). More information can be found in [our developer documentation](#).

Payload URL *

`http://jenkins.devops-wp.space:8080/github-webhook/`

Content type

`application/x-www-form-urlencoded`

Secret

Which events would you like to trigger this webhook?

☐ Just the push event.

☒ Send me **everything**.

☐ Let me select individual events.

☒ **Active**

We will deliver event details when this hook is triggered.

Update webhook **Delete webhook**

Nginx, gunicorn

- ☐ Gunicorn run as daemon
- ☐ Gunicorn restarting when on creating build
- ☐ Nginx as web server control

```
$ restart.sh
1  #!/bin/bash
2
3  # Start Gunicorn processes
4  echo Restarting Gunicorn.
5  pkill -f gunicorn || true
6  gunicorn app:application \
7      --bind 0.0.0.0:8000 \
8      --workers 3 \
9      --daemon
```

http://site.devops-wp.space/

⚠ Не конфіденційний | site.devops-wp.space 🔍 ↗

Change you password on site.devop-wp.space

Username

Old password

New password

Confirm new password

Update password

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Forked in 2022 from [ldap-passwd-webui](#) by Jakub Jirutka.

Changing password to user...failed

Не конфіденційний | site.devops-wp.space

Change your password on site.devop-wp.space

Username
test2

Old password

New password

Confirm new password

[Update password](#)

```
0000052d: atrerr: dsid-031910d4, #1: 0:  
0000052d: dsid-031910d4, problem 1005  
(constraint_att_type), data 0, att 9005a  
(unicodepwd)
```



Enforce password history	24 passwords remembered
Maximum password age	42 days
Minimum password age	1 days
Minimum password length	7 characters
Password must meet complexity requirements	Enabled
Store passwords using reversible encryption	Disabled

Set-ADDefaultDomainPasswordPolicy
'DC=devops,DC=test' -MinPasswordAge 0

It`s work!

Change you password on `site.devop-wp.space`



Username

test2

Old password

New password

Confirm new password

Update password

Password has been changed

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Links

- <https://github.com/hrebynakha/ldap-passwd-webui>
- <https://github.com/hrebynakha/AD-webmanager>
- <https://github.com/hrebynakha/ldap-user-manager>
- <https://www.ukraine.com.ua/uk/wiki/>
- https://en.wikipedia.org/wiki/Active_Directory
- <https://docs.microsoft.com/en-us/windows-server/identity/ad-ds/get-started/virtual-dc/active-directory-domain-services-overview>



Thank You!