

Ansible Project



Agenda



01. DZ Privatbank S.A.
02. Team
03. Use Case 1 - PTF Installation
04. Use Case 2 - Be compliant with CIS
05. What's next?

01. DZ PRIVATBANK



DZ PRIVATBANK is the competence center for private banking, fund services and loans in all currencies within the Volksbanken Raiffeisenbanken cooperative financial network. With presence in Luxembourg, Germany and Switzerland, it offers individual solutions for private banking customers with a range of services from classic asset management to asset structuring, financial and pension planning and even foundation advice.

With more than 1.100 employees DZ PRIVATBANK is located with its headquarter in Strassen.

The IT Production sub-segment provides all basic IT services for the entire company. These cover the entire range of services from the provision of end devices for the user to the operation of the data centers with the systems located in them or purchased services, e.g. from the cloud.



01. DZ PRIVATBANK



Challenge:

DZ PRIVATBANK wanted to automate the system administration and assure the security compliance of their IBM i environment, instead of performing this manually, so they can spend their precious time on other tasks.

” Ansible was already widely used in the Linux environment. Unfortunately, IBM i was still an exception here. With the help of IBM and ASP, we were able to successfully implement the requirements from the two use cases. By working together, we opened the doors to automation with Ansible for further projects on

Marcus Hoffmann - Senior IBM i System Engineer
Ulrich Mahlberg - Group Lead Unix/ Linux/ Storage



02. Kudos to the team!



DZ PRIVATBANK



ASP



IBM

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03. Use Case Overview

1

USE CASE 1

Installing PTF packages (cumulative or PTF groups) on an IBM i LPAR that needs to be in restricted state.



USE CASE 2

Check and change authorities on system values and objects to match the CIS benchmarks for IBM i

2

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03. Use Case 1



Installing PTF packages (cumulative or PTF groups) on an IBM i LPAR that needs to be in restricted state including upload and preparation.

For the first use case, IBM developed with DZ PRIVATBANK a playbook and it has been tested with the desired result.



```
1 Welcome | ! ibmi-install-ptf.yml | ! main.yml | ! journal.yml
playbooks > ! ibmi-install-ptf.yml
1 - name: Install PTF
2   hosts: all
3   gather_facts: true
4   ignore_errors: true
5   collections:
6     - ibm.power_ibmi
7   roles:
8     - role: ../roles/ibmi-role-cpyptf
9     - role: ../roles/ibmi-role-prepareimgclg
10    - role: ../roles/ibmi-role-installptf
```

03. Use Case 1



```
roles > ibmi-role-cpyptf > tasks > ! main.yml
1 ---
2 - name: find imgclg
3   ibm.power_ibmi.ibm_ob
4   object_name: 'CUMGRP'
5   list_name: 'QUSRVSYS'
6   object_type_list: '*'
7   register: imgclg
8 - name: debug
9   debug:
10    msg: "{{imgclg}}"
11
12 - name: Create imgclg
13   ibm.power_ibmi.ibm_cl
14   cmd: "CRTIMGCLG IMGCLG"
15   when: imgclg.object_li
16
17 - name: Remove all Entry
18   ibm.power_ibmi.ibm.fi
19   operation: 'rawimgclg'
20   image_catalog_name:
21     image_catalog_direct
22   when: imgclg.object_li
23
24 - name: Copy PTFs to IBM
25   ansible.builtin.copy:
26     src: "/mnt/{{release
27     dest: '/imgclg/cumgrp
28
roles > ibmi-role-prepareimgclg > tasks > ! main.yml
1 ---
2 - name: "Laden der PTF"
3   ibm.power_ibmi.ibm_i
4   cmd: "CALL PGM(QVQ)
5
6 - name: "Laden des IMGCLG"
7   ibm.power_ibmi.ibm_i
8   cmd: "LOADIMGCLG IMGCLG"
9
10 - name: "Verifizieren"
11   ibm.power_ibmi.ibm_i
12   cmd: "VFYIMGCLG IMGCLG"
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DZ PRIVATBANK +  + **IBM**

05. What's next?



Templates > Check Diskpath
Details

Back to Templates

Details

Access

Notifications

Schedules

Jobs

Survey

Name

Check Diskpath

Organization

DZ-PRIVATBANK

Execution Environment

Automation Hub Default execution environment

Verbosity

0 (Normal)

Job Slicing

1

Credentials

IBM (available)

Variables

1 ***

Edit

Launch

Delete

Check Diskpath Successful

Stdout

0 Identity added: /runner/artifacts/433/ssh_key_data (ibmi@ibmi)

1

2 PLAY [Check disks on all IBMi hosts] ***** 13:38:05

3

4 TASK [Gathering Facts] ***** 13:38:05

5 ok: [ibmi.power.ibm1.ibm] 1

6

7 TASK [...roles/ibmi-role-check-disk] ***** 13:38:05

8 ok: [ibmi.power.ibm1.ibm] 1

9

10 TASK [...roles/ibmi-role-check-disk] ***** 13:38:05

11 ok: [ibmi.power.ibm1.ibm] 1

12 "msg": "Failed disk count: 0"

13 }

14

15 PLAY RECAP *****

16 ibmi.power.ibm1.ibm : ok=1

playbooks > / ibmi-update-tomcat-all.yml

1 - name: Anpassen der config files von oly und tomcat

2

3 gather_facts: true

4 ignore_errors: true

5 collections:

6 - ibm.power_ibmi

7 roles:

8 - role: ../roles/ibmi-role-tomcat-update-all

9 vars:

10 loopenvtc:

11

12 #A_OLY LU

13 - { stage: t00, cststage: T00, mandant: a_, capp: A0LY, path: oly, keystore: tomcat, tc

14 - { stage: t01, cststage: T01, mandant: a_, capp: A0LY, path: oly, keystore: tomcat, tc

15

16 #A_OLY LU OPENAPI

17 - { stage: t01, cststage: T01, mandant: a_, capp: API, path: openapi, keystore: open, t

18 - { stage: t03, cststage: T03, mandant: lu, capp: API, path: openapi, keystore: open, t

19 - { stage: t11, cststage: T11, mandant: lu, capp: API, path: openapi, keystore: open, t

20 - { stage: t12, cststage: T12, mandant: lu, capp: API, path: openapi, keystore: open, t

06. Questions?

