

Configuration VM templates for ESXi



Installation manual for system providers

8/19/2020

Product line neo, version 6.x

The described functions can be used with the following ASC products:

EVOIPneo

This item is only available in selected countries.

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2 Introduction

This document describes the installation and configuration of a neo VM by means of VMware templates.

The following architecture types can be installed and configured:

- neo VM with core and DB
- neo VM with core and external DB
- neo VM without core and with DB
- neo VM without core and without DB

VMware templates must be imported with vCenter.

3 Installation and configuration

1. Open a browser and connect to the web interface of vCenter.
2. Click on vSphere Client (HTML5) - partial functionality.



Fig. 1: vSphere Client (HTML5) - partial functionality

3. Enter your e-mail address in the entry field *User name*.

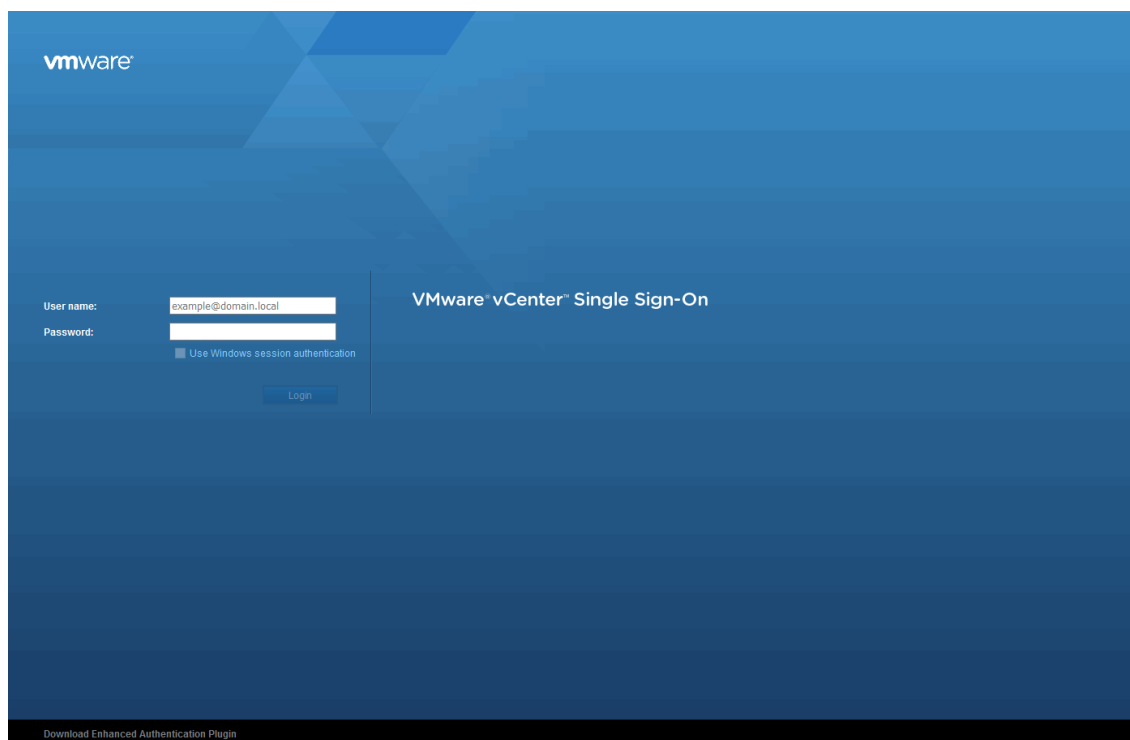


Fig. 2: Enter user name and password

4. Enter your password in the entry field *Password*.
5. Click on the button *Login*.

6. In the structure view, right-click on the directory where you would like to install the **VM**.
⇒ A context menu appears.
7. In the context menu, click on the entry *Deploy OVF Template*.

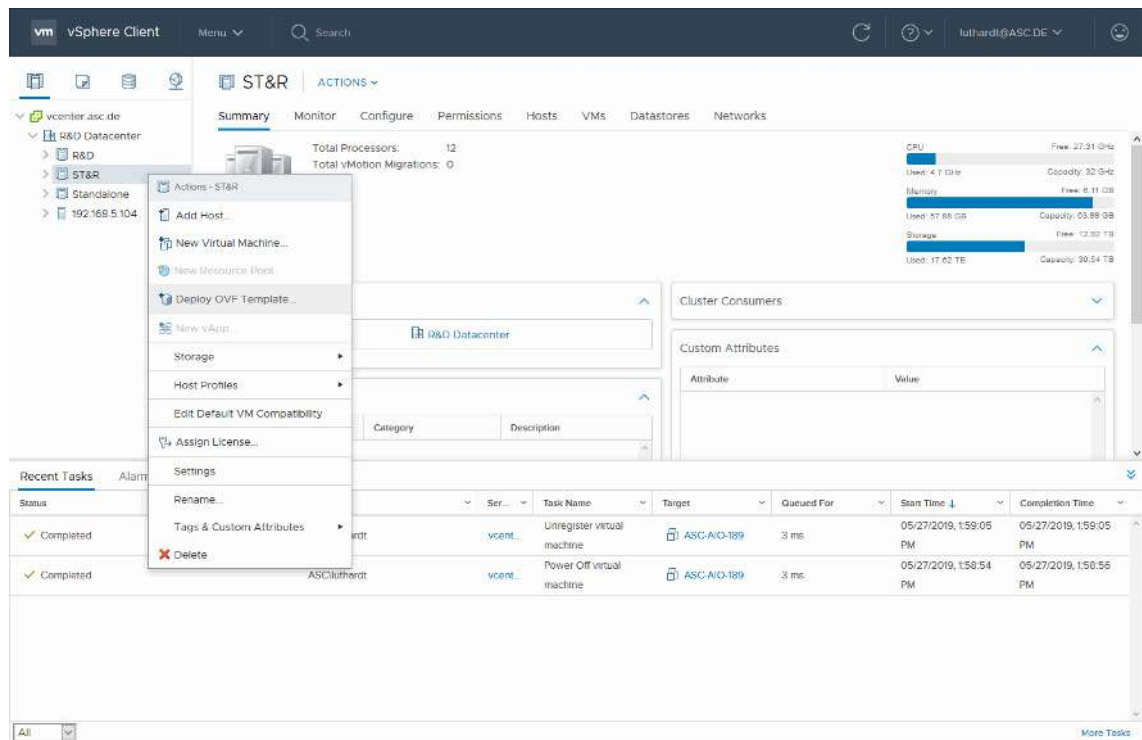


Fig. 3: Deploy OVF template

8. Activate the option *Local file*.

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 Select storage

6 Ready to complete

Select an OVF template

Select an OVF template from remote URL or local file system


Enter a URL to download and install the OVF package from the Internet, or browse to a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.


☐ URL

☒ Local file

Browse...

No files selected.

 Select a template to deploy. Use multiple selection to select all the files associated with an OVF template (.ovf, .vmdk, etc.)



CANCEL

BACK

NEXT

Fig. 4: Select OVF template

9. Click on the button *Browse*.
 - ⇒ The following window appears:

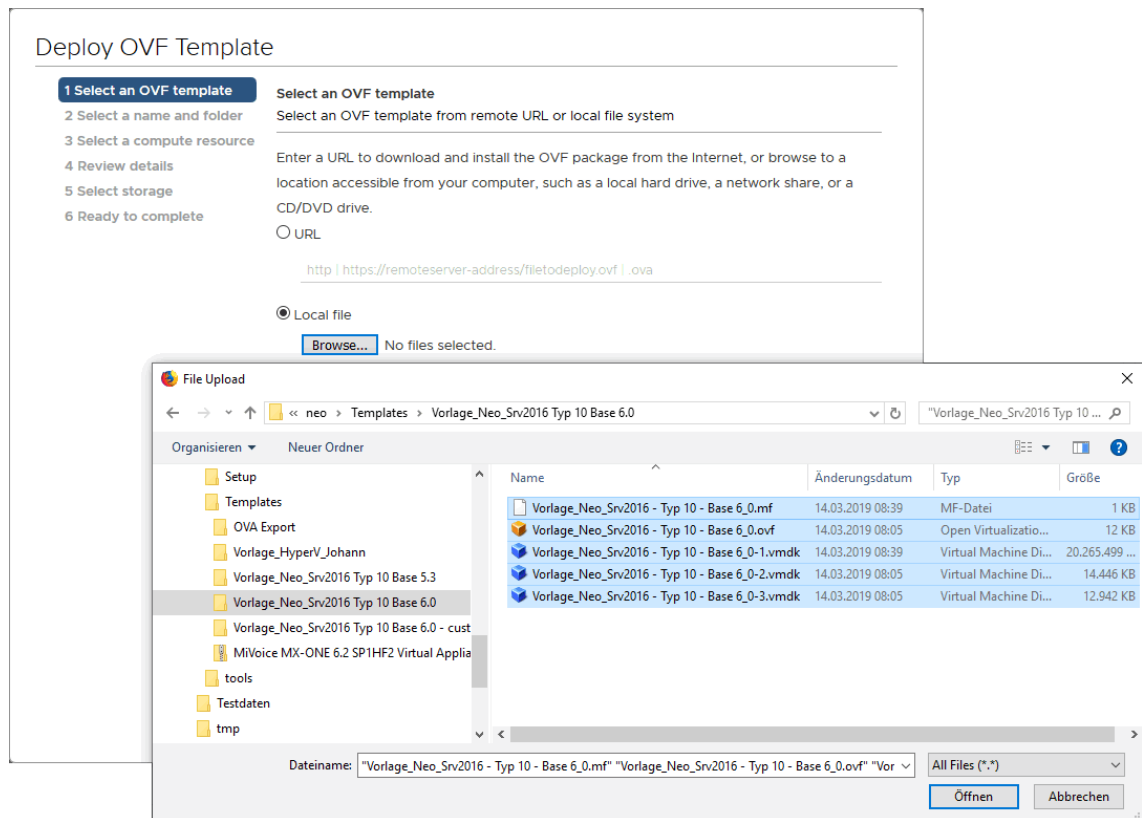


Fig. 5: Select OVF template

10. In the structure view, click on the directory with the neo installation files.
11. Select all files in the main view.
12. Click on the button *Open*.
13. Click on the button *NEXT*.

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 Select storage

6 Ready to complete

Select an OVF template

Select an OVF template from remote URL or local file system

Enter a URL to download and install the OVF package from the Internet, or browse to a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.

☐ URL

☒ Local file

5 files selected.

CANCEL

BACK

NEXT

Fig. 6: Select OVF template

14. Enter a name in the entry field *Virtual machine name*.

Deploy OVF Template

✓ 1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 Select storage

6 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name:

Select a location for the virtual machine.

▼ vcenter.asc.de

▼ R&D Datacenter

> Discovered virtual machine

> linked clones Vorlagen

> M&D

> R&D

> SCSI

> **ST&R**

> Standalone

> Templates

> zum löschen

CANCEL

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NEXT

Fig. 7: Select name and folder

15. Select a storage location for the virtual machine.
16. Click on the button *NEXT*.
17. Select the compute resource.

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Deploy OVF Template

✓ 1 Select an OVF template

✓ 2 Select a name and folder

3 Select a compute resource

4 Review details

5 Select storage

6 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

✓ R&D Datacenter

> R&D

✓ ST&R

192.168.5.118

> Standalone

> 192.168.5.104

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

Fig. 8: Select compute resource

18. Click on the button *NEXT*.
19. Click on the button *NEXT*.

Deploy OVF Template

✓ 1 Select an OVF template

✓ 2 Select a name and folder

✓ 3 Select a compute resource

4 Review details

5 Select storage

6 Select networks

7 Customize template

8 Ready to complete

Review details

Verify the template details.

| | |
|---------------|---|
| Publisher | No certificate present |
| Product | NEO - Base Installation |
| Version | 5.3.0 |
| Description | [Verantwortlicher] Schillinger [Betriebssystem] Windows Server 2016 [IP] -- [Kommentar] Vorlage für Neo Template (extern) |
| Download size | Unknown |
| Size on disk | Unknown (thin provisioned) |
| | 270.0 GB (thick provisioned) |

CANCEL

BACK

NEXT

Fig. 9: Verify details

20. From the drop-down list under *Select virtual disk format*, select the format of the [VM](#).

Deploy OVF Template

✓ 1 Select an OVF template

✓ 2 Select a name and folder

✓ 3 Select a compute resource

✓ 4 Review details

5 Select storage

6 Select networks

7 Customize template

8 Ready to complete

Select storage

Select the storage for the configuration and disk files

☐ Encrypt this virtual machine (Requires Key Management Server)

Select virtual disk format:

Thin Provision

▼

VM Storage Policy:

Datastore Default

▼

| Name | Capacity | Provisioned | Free | Type |
|-----------|----------|-------------|-----------|------|
| local-118 | 1.08 TB | 2.98 TB | 9.22 GB | VM |
| V10-ISOs | 90.22 GB | 17.11 GB | 73.11 GB | NF |
| VM-0 | 1.46 TB | 435.64 GB | 1.16 TB | VM |
| VM-1 | 1.5 TB | 979 MB | 1.5 TB | VM |
| VM-10 | 1.46 TB | 153.52 GB | 1.31 TB | VM |
| VM-11 | 1.46 TB | 1,011.47 GB | 616.48 GB | VM |
| VM-12 | 1.46 TB | 475.37 GB | 1 TB | VM |
| VM-3 | 1.46 TB | 980 MB | 1.46 TB | VM |

Compatibility

✓

Compatibility checks succeeded.

CANCEL

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Fig. 10: Select storage location

21. Select the storage location for the **VM** storage policy.
22. Click on the button **NEXT**.
23. Select a format for the DMZ2 network from the drop-down list under *Destination Network*.

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Deploy OVF Template

✓ 1 Select an OVF template

✓ 2 Select a name and folder

✓ 3 Select a compute resource

✓ 4 Review details

✓ 5 Select storage

6 Select networks

7 Customize template

8 Ready to complete

Select networks

Select a destination network for each source network.

| Source Network | Destination Network |
|----------------|---------------------|
| DMZ2 | DMZ2 |
| 1 items | |

IP Allocation Settings

IP allocation: Static - Manual

IP protocol: IPv4

CANCELBACKNEXT

Fig. 11: Select networks

24. Click on the button *NEXT*.
25. Complete all required fields.

Deploy OVF Template

✓ 1 Select an OVF template

✓ 2 Select a name and folder

✓ 3 Select a compute resource

✓ 4 Review details

✓ 5 Select storage

✓ 6 Select networks

7 Customize template

8 Ready to complete

Customize template

Customize the deployment properties of this software solution.

✓ All properties have valid values

| Uncategorized | 20 settings |
|---------------|----------------------------------|
| INSTALLUSER | Asc-User |
| NEOLANGUAGE | en_US;de_DE |
| IP-address | 192.168.171.189 |
| INSTALLPATH | \\rd-nas2\neo\Setup\6.0.0 |
| NEOMODE | AllInOne |
| DBPORT | port of database server |
| DBTYPE | for external db only Postgres |
| DNSSERVER | 192.168.168.11 |

CANCEL

BACK

NEXT

Fig. 12: Customize template

The following parameters are available:

| Parameter | Description |
|--------------------|---|
| <i>INSTALLUSER</i> | Enter the user to access the installation path. |
| <i>NEOLANGUAGE</i> | Enter the languages to be installed for <i>neo</i> , <i>en_US</i> ; <i>de_DE</i> . |
| <i>IP-address</i> | Enter the IP address of the network. |
| <i>INSTALLPATH</i> | Enter the path to the <i>neo</i> installation files. This path must not contain more than 1 ISO file. This ISO file is used for the setup automatically. |
| <i>NEOMODE</i> | Select one of the following options from the drop-down list: <ul style="list-style-type: none"> <i>AllInOne</i> = <i>neo VM</i> with core and <i>DB</i> <i>external db</i> = <i>neo VM</i> with core and external <i>DB</i> <i>without core</i> = <i>neo VM</i> without core and with <i>DB</i> <i>without core/db</i> = <i>neo VM</i> without core and without <i>DB</i> |
| <i>DBPORT</i> | Enter the value 1433 for MSSQL Standard. If a Named Instance is used, enter the differing port. Enter the value 5432 for POSTGRES. Entry is not required for NEOMODE <i>AllInOne</i> or for <i>without core</i> . |
| <i>DBTYPE</i> | Select one of the following options from the drop-down list: <ul style="list-style-type: none"> <i>Postgres</i> <i>MSSQL</i> Entry is not required for NEOMODE <i>AllInOne</i> or for <i>without core</i> . |
| <i>DNSSERVER</i> | Enter the IP address for the DNS network. |

| Parameter | Description |
|------------------------|---|
| <i>AIPADDRESS</i> | Enter the IP address for the AIP (core). Entry is not required for NEOMODE <i>AllInOne</i> or for <i>external db</i> . |
| <i>DBINSTANCE</i> | If MSSQL and Named Instance are used, enter the name of the Named Instance. If nothing is entered, ASC-Default will be used. Entry is not required for NEOMODE <i>AllInOne</i> or for <i>without core</i> . |
| <i>POSTGRESHOST</i> | Option: Enter the IP address for the DB requiring remote access (e. g. in case of separate recorder). Several IPS/netmasks can be created, separated by semicolons. It is obligatory to use the format IP/Netmask. |
| <i>INSTALLPASSWORD</i> | Enter the password to access the installation path. |
| <i>COMPUTERNAME</i> | Option: Enter the computer name. Observe Microsoft's conventions. |
| <i>DBUSER</i> | Enter the external DB user. If nothing is entered, ASC-Default will be used. Entry is not required for NEOMODE <i>AllInOne</i> or for <i>without core</i> . |
| <i>DEFAULTNTP</i> | Option: Enter the IP address for the NTP server of neo . |
| <i>CLUSTERID</i> | Option: Enter the cluster ID. The server name is entered here automatically as default ID. For all-in-one systems you can apply this ID. When setting up a multi-server system with several application servers, you have to replace the default ID with another, freely selectable cluster ID which is identical for all application servers. |
| <i>DBIP</i> | Enter the IP address for the external DB. Entry is not required for NEOMODE <i>AllInOne</i> or for <i>without core</i> . |
| <i>default gateway</i> | Enter the IP address for the network. |
| <i>netmask</i> | Enter the IP address for the network mask. |
| <i>DBPASSWORD</i> | Enter the password for the external DB. If nothing is entered, ASC-Default will be used. Entry is not required for NEOMODE <i>AllInOne</i> or for <i>without core</i> . |

26. Click on the button *NEXT*.

27. Click on the button *FINISH*.

Deploy OVF Template

- ✓ 1 Select an OVF template
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Review details
- ✓ 5 Select storage
- ✓ 6 Select networks
- ✓ 7 Customize template
- 8 Ready to complete**

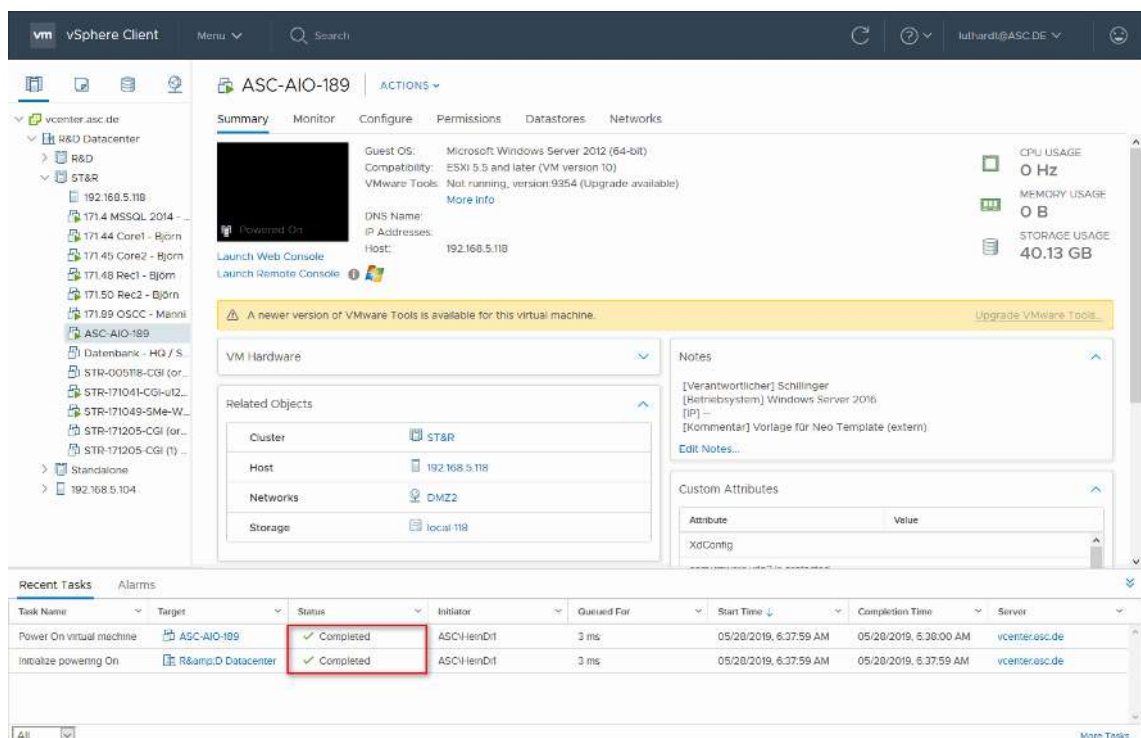
Ready to complete
Click Finish to start creation.

| | |
|------------------------|---|
| Provisioning type | Deploy from template |
| Name | ASC-AIO-189 |
| Template name | Vorlage_Neo_Srv2016 - Typ 10 - Base 6_0 |
| Download size | Unknown |
| Size on disk | 270.0 GB |
| Folder | ST&R |
| Resource | 192.168.5.118 |
| Location | local-118 |
| Storage mapping | 1 |
| All disks | Datastore: local-118; Format: Thick Provision Lazy Zeroed |
| Network mapping | 1 |
| DMZ2 | DMZ2 |
| IP allocation settings | |
| IP protocol | IPV4 |
| IP allocation | Static - Manual |

[CANCEL](#)
[BACK](#)
[FINISH](#)

Fig. 13: Ready to complete

28. A table displays whether the **VM** has been created successfully.



The screenshot shows the vSphere Client interface. On the left, a tree view shows the hierarchy: vcenter.asc.de > R&D Datacenter > ST&R > 192.168.5.118 > ASC-AIO-189. The main pane shows the 'Summary' tab for the VM 'ASC-AIO-189'. It displays details like Guest OS (Microsoft Windows Server 2012), Compatibility (ESXi 5.5 and later), and DNS Name. A yellow banner indicates a newer version of VMware Tools is available. Below, the 'Related Objects' table shows the VM is associated with Cluster ST&R, Host 192.168.5.118, Network DMZ2, and Storage local-118. At the bottom, the 'Recent Tasks' table shows two tasks: 'Power On virtual machine' and 'Initialize powering On', both with a status of 'Completed' (highlighted with a red box).

| Task Name | Target | Status | Initiator | Queued For | Start Time | Completion Time | Server |
|--------------------------|----------------|-------------|-------------|------------|------------------------|------------------------|----------------|
| Power On virtual machine | ASC-AIO-189 | ✓ Completed | ASCH-HeinDf | 3 ms | 05/28/2019, 6:37:59 AM | 05/28/2019, 6:38:00 AM | vcenter.asc.de |
| Initialize powering On | R&D Datacenter | ✓ Completed | ASCH-HeinDf | 3 ms | 05/28/2019, 6:37:59 AM | 05/28/2019, 6:37:59 AM | vcenter.asc.de |

Fig. 14: VM created successfully

29. In the structure view, right-click on the directory of the new **VM**.

⇒ A context menu appears.

30. In the context menu, click on the entry *Power > Power On*.

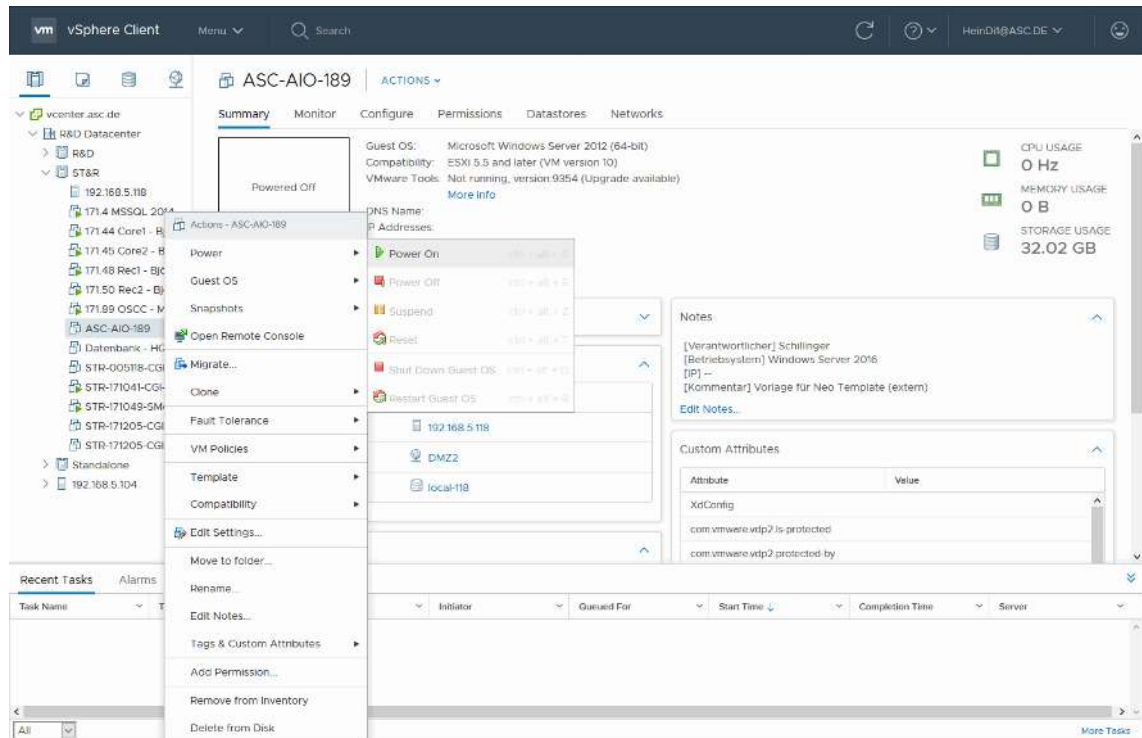


Fig. 15: Switch power on

31. The configuration script is started automatically.

32. To watch the progress, click on the small **VM** window which is displayed.

⇒ The **VM** is displayed in its own tab.

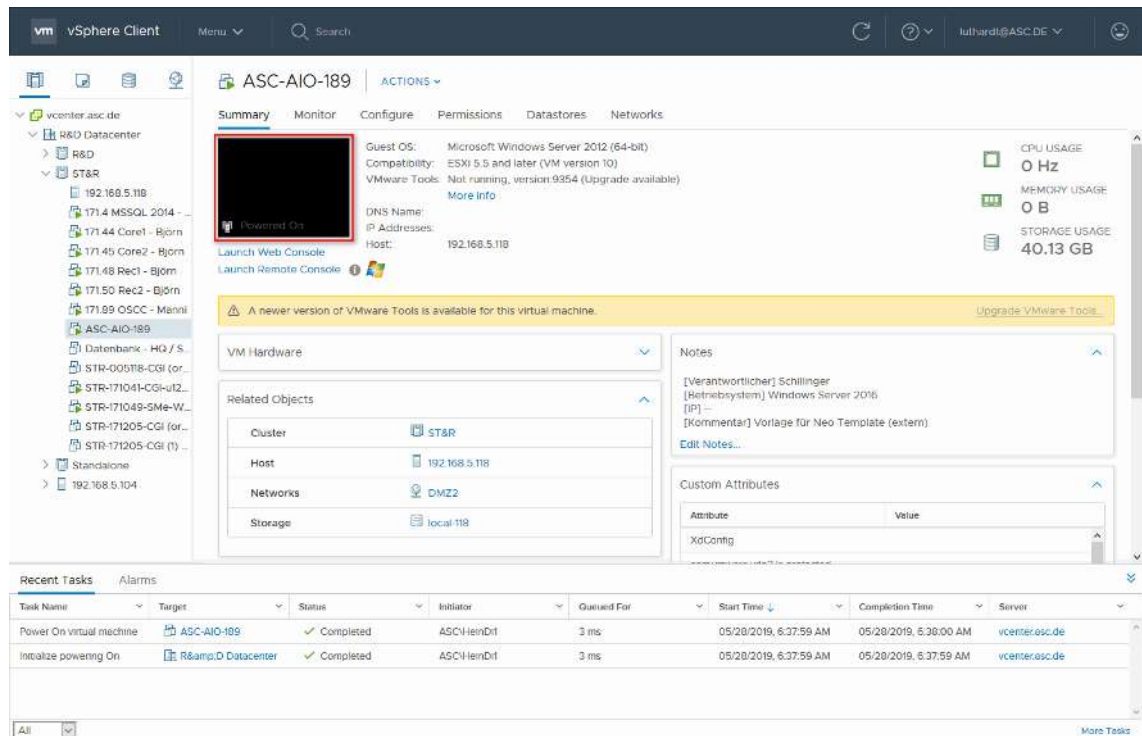


Fig. 16: Display VM in its own tab in the browser

33. In the browser, change to the tab **VM**.

34. During the configuration, the **VM** is rebooted several times automatically.

35. Upon completing the basic configuration, the **VM** is switched off automatically.

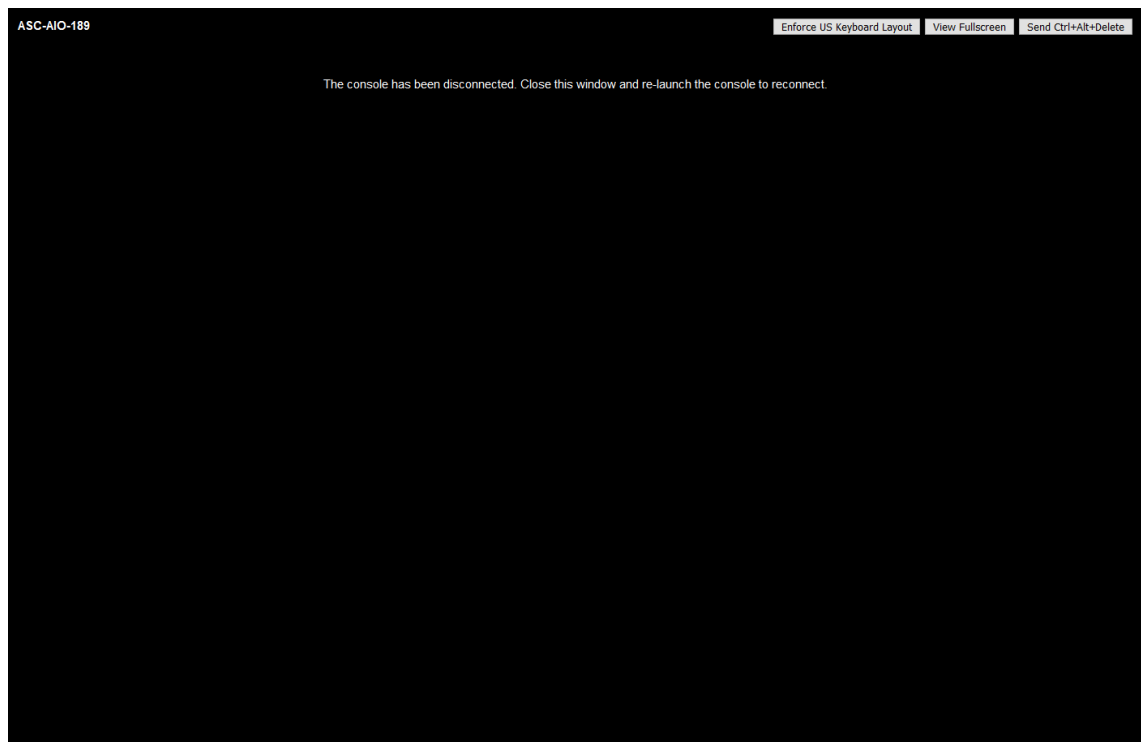


Fig. 17: VM is switched off automatically

36. Close the tab **VM**.

37. In the structure view, right-click on the directory of the new **VM**.

⇒ A context menu appears.

38. In the context menu, click on the entry **Power > Power On**.

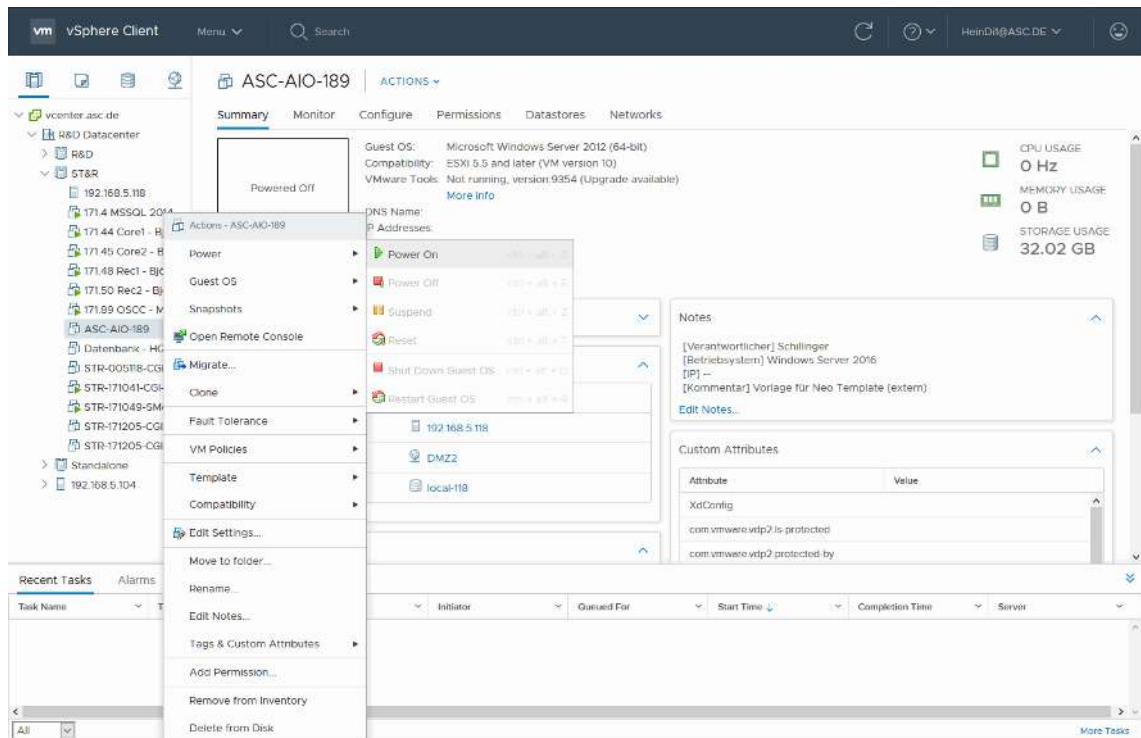


Fig. 18: Switch power on

39. Click on the small **VM** window which is displayed.

⇒ The **VM** is displayed in its own tab.

40. In the browser, change to the tab [VM](#) to configure Windows.
41. Select the respective language from the drop-down list.

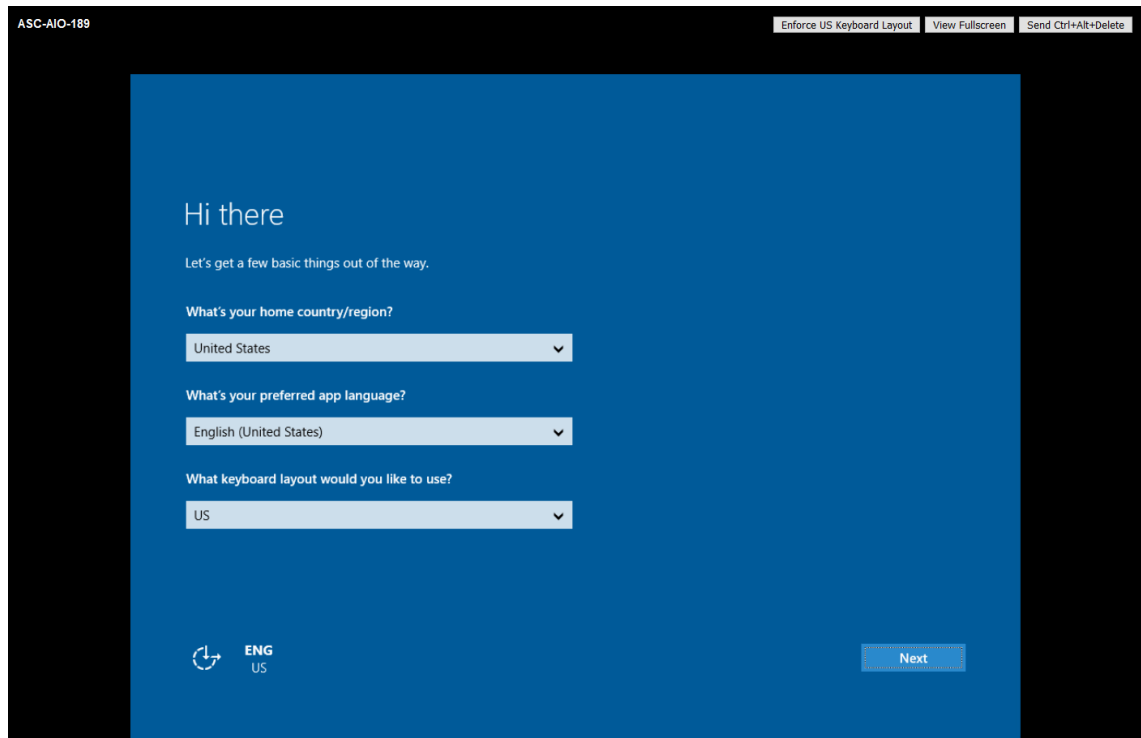


Fig. 19: Select language

42. Click on the button *Next*.
43. Enter the Windows product key.

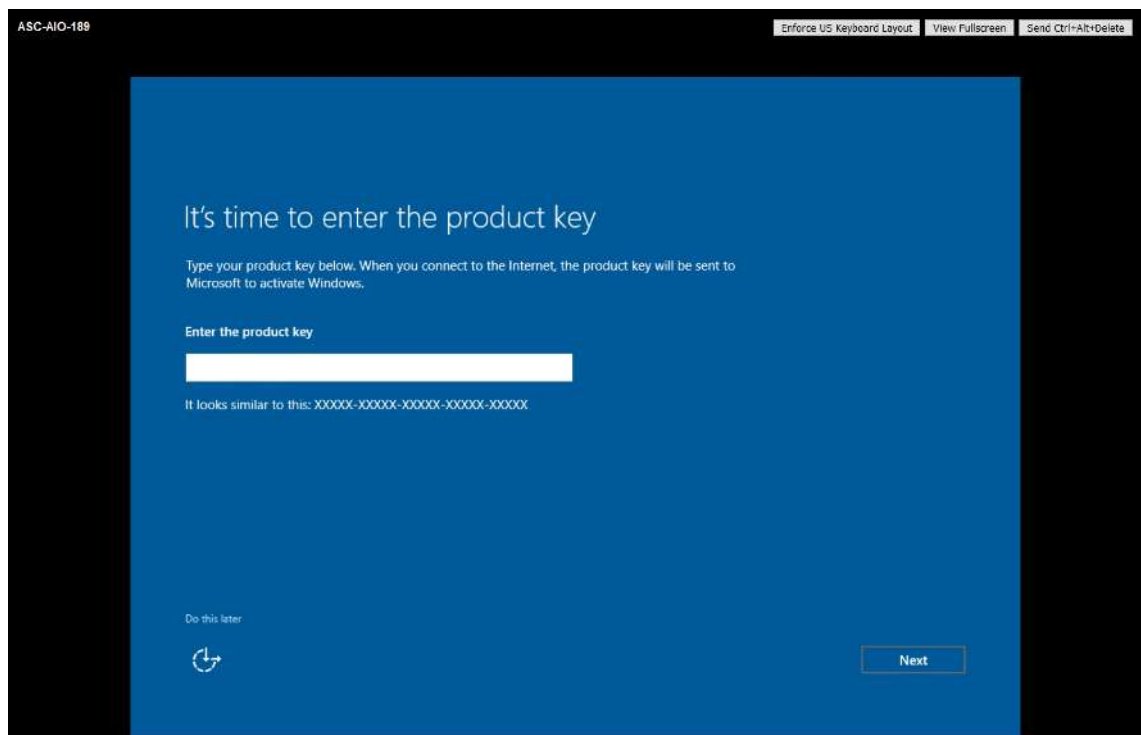


Fig. 20: Enter Windows product key

44. Click on the button *Next*.
45. Click on the button *Accept* to accept the license terms.

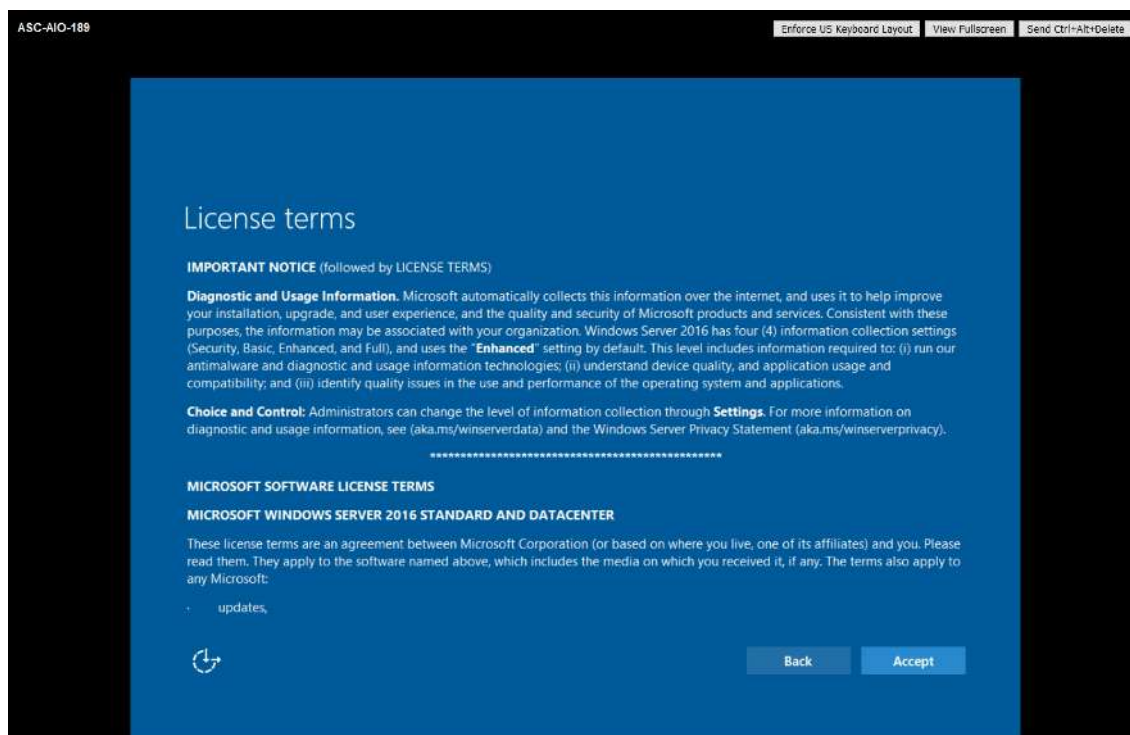


Fig. 21: Accept license terms

46. In the field *Password*, enter the password for the local administrator.
47. Enter the password again in the field *Reenter password*.

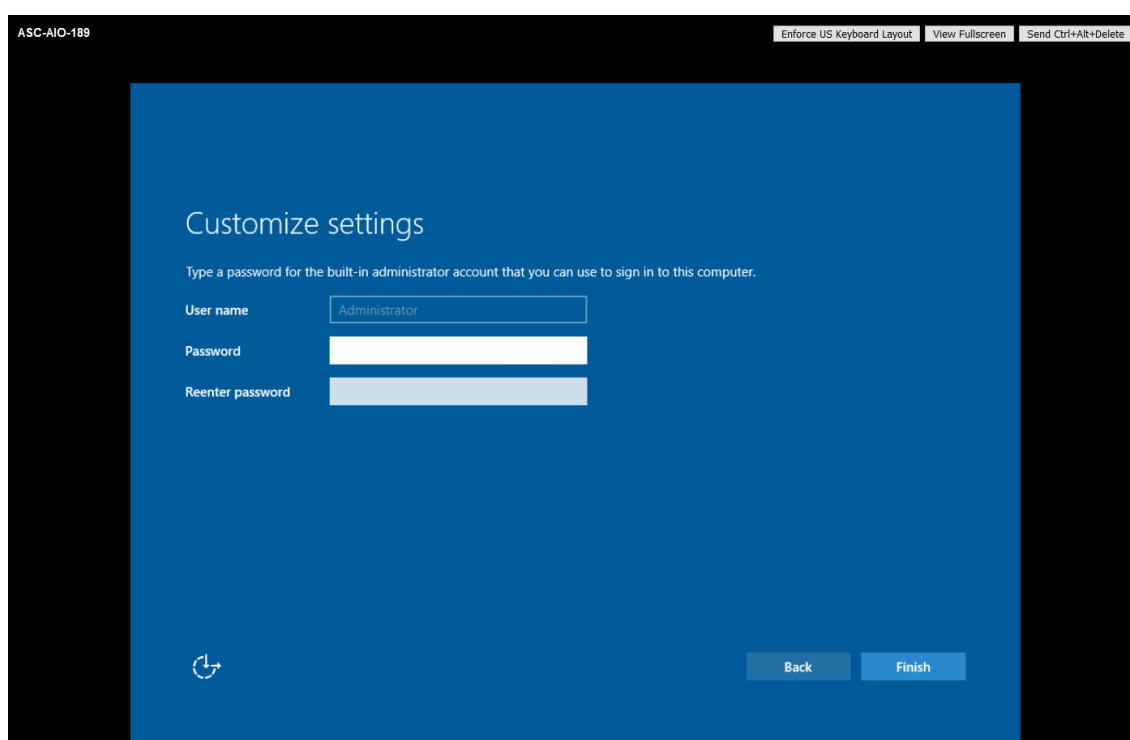


Fig. 22: Enter password for local administrator

48. Click on the button *Finish*.
49. Click on the button *Send Ctrl+Alt+Delete*.
50. Enter the password for the local administrator and confirm it by pressing the [Enter] key.
 - ⇒ The latest adaptations are made before the window *Neo version installed successfully - press button for reboot* appears.

51. Click on the button *Reboot VM* to complete the configuration.

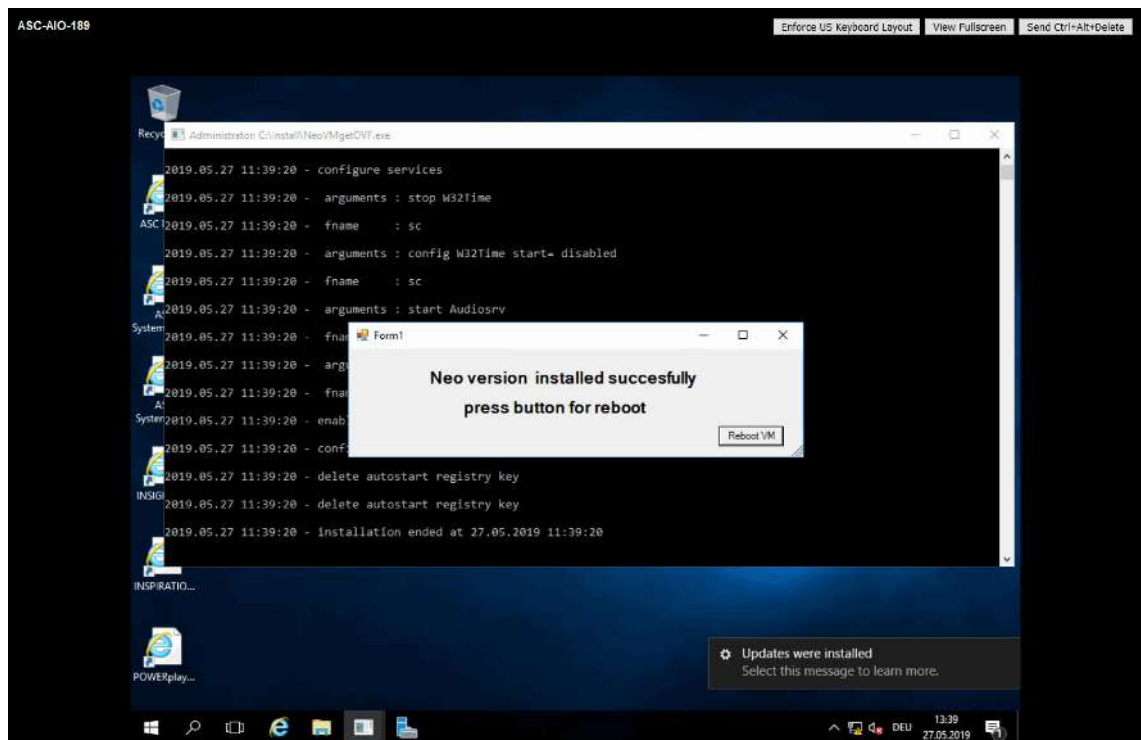


Fig. 23: neo version installed successfully

52. Close the tab *VM*.

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Glossary

AIP

Asynchronous Integration Platform

DB

Database

NTP

Network Time Protocol NTP is a standard for the synchronization of clocks in computer systems via packet-based communication networks. NTP uses the connectionless transport protocol UDP. It has been developed with the objective to guarantee reliable time verification across networks with variable packet runtime. (Source: Wikipedia 12th June 2018)

VM

Virtual machine