

Configuration VM templates for ESXi



Installation manual for system providers

11/18/2020

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.

Please note that you can always find the most up-to-date technical documentation and product updates in the partner area on our website at <http://www.asctechnologies.com>.

Copyright © 2019 ASC Technologies AG. All rights reserved.

Windows is a registered trademark of Microsoft Corporation. VMware® is a registered trademark of VMware, Inc. All other marks and names mentioned herein may be trademarks of their respective companies.

Contents

1	General information	4
2	Introduction	5
3	Installation and configuration.....	6
	List of figures	24
	List of tables	25
	Glossary	26

1 General information

In the context of this document ASC represents ASC Technologies AG, its subsidiaries, branch offices, and distributors. An up-to-date overview of the aforementioned entities can be found at <https://www.asctechnologies.com>

ASC assumes no guarantee for the actuality, correctness, integrity or quality of the information provided in the manuals.

ASC regularly checks the content of the released manuals for consistency with the described hardware and software. Nevertheless, deviations cannot be excluded. Necessary revisions are included in subsequent editions.

Some aspects of the ASC technology are described in general terms to protect the ownership and the confidential information or trade secrets of ASC.

The software programs and the manuals of ASC are protected by copyright law. All rights on the manuals are reserved including the rights of reproduction and multiplication of any kind, be it photo mechanical, typographical or on digital data media. This also applies to translations. Copying the manuals, completely or in parts, is only allowed with written authorization of ASC.

Representative, if not defined otherwise, is the technical status at the time of the delivery of the software, the devices and the manuals of ASC. Technical changes without specified announcements are reserved. Previous manuals lose their validity.

The general conditions of sales and delivery of ASC in their latest version apply.

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*.

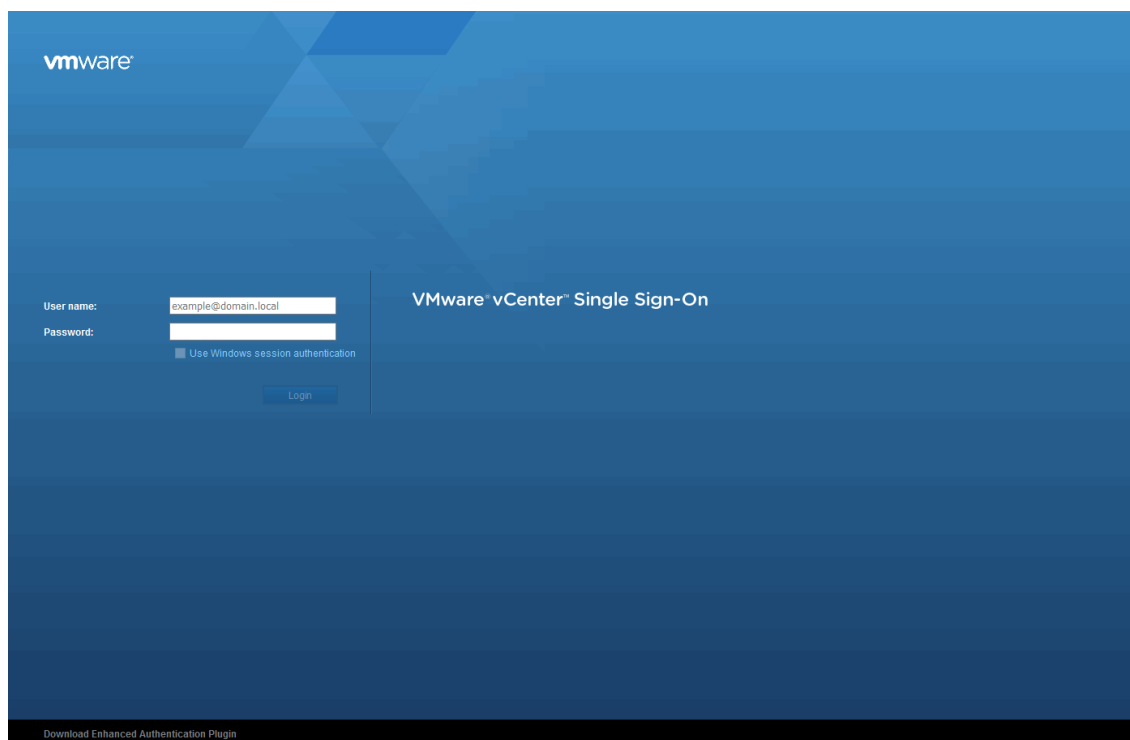


Fig. 2: Enter user name and password

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*.

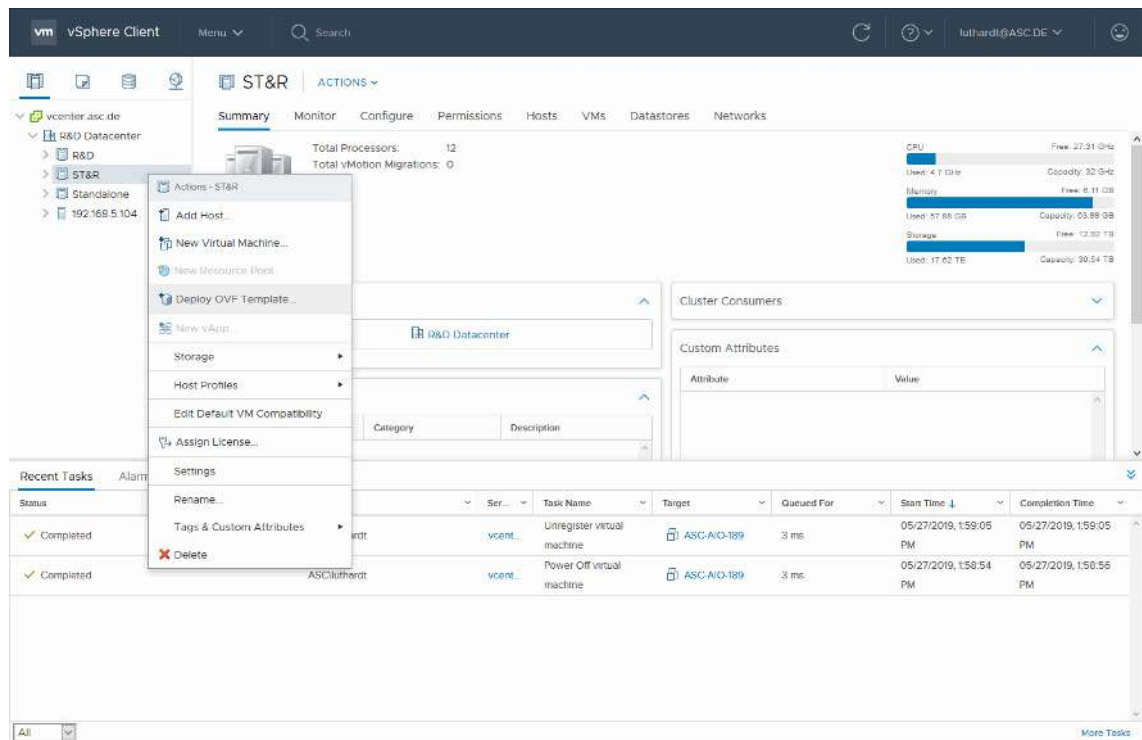


Fig. 3: Deploy OVF template

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:

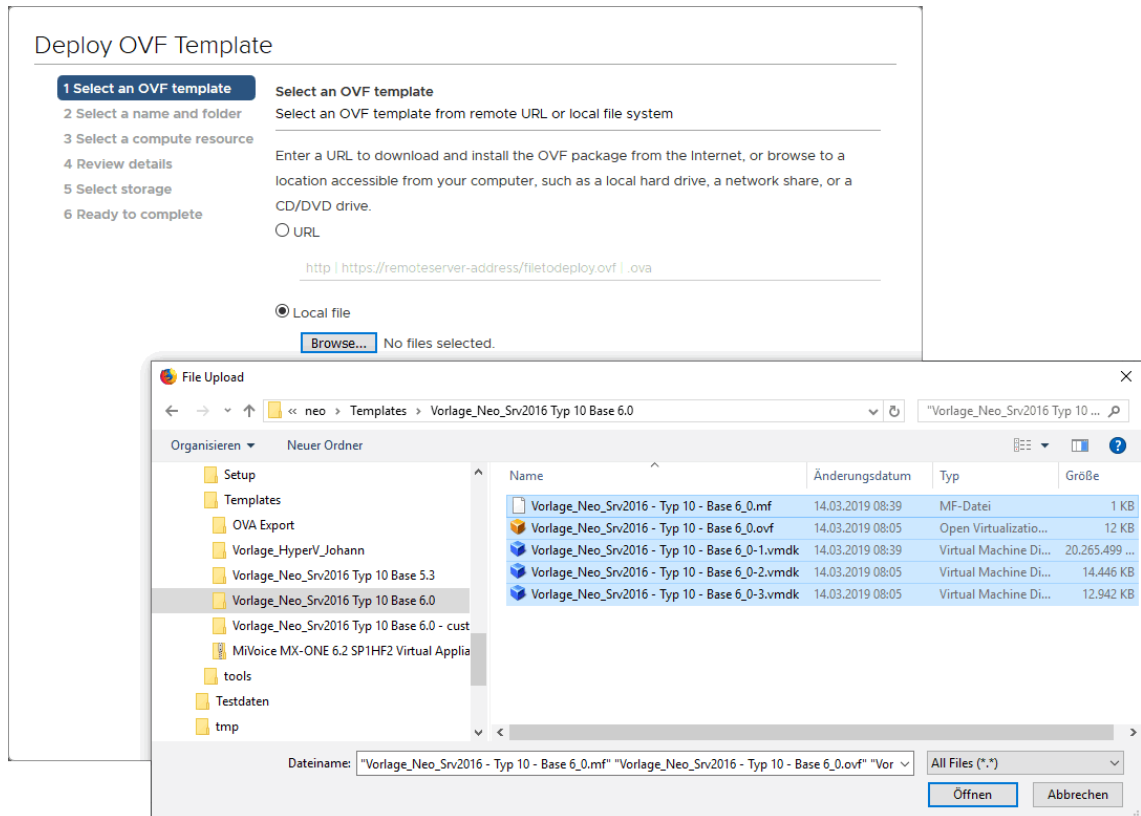


Fig. 5: Select OVF template

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

BACK

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.

Configuration VM templates for ESXi - *neo* 6.x Rev. 4

11 / 26

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

BACK

NEXT

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*.

Configuration VM templates for ESXi - *neo* 6.x Rev. 4

14 / 26

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

CANCEL

BACK

NEXT

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</i> VM with core and DB <i>external db</i> = <i>neo</i> VM with core and external DB <i>without core</i> = <i>neo</i> VM without core and with DB <i>without core/db</i> = <i>neo</i> VM without core and without DB
<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**

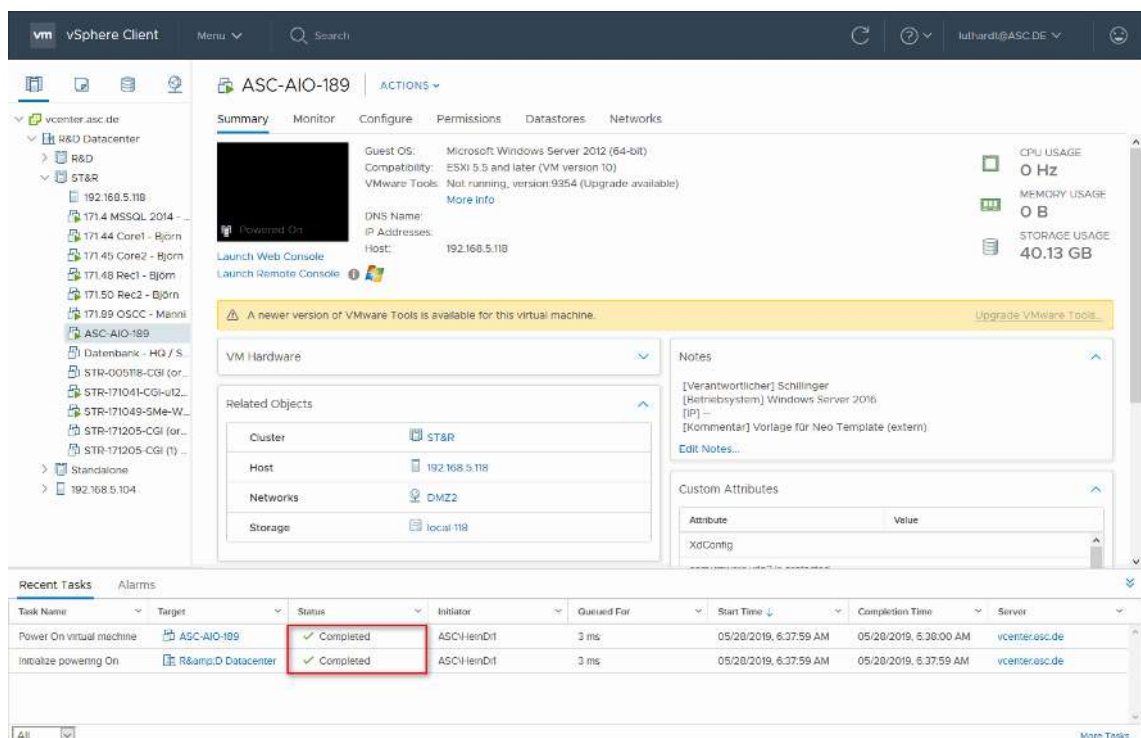
Ready to complete
Click Finish to start creation.

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 panel displays the 'Summary' tab for the VM 'ASC-AIO-189'. It shows the VM is 'Powered On' and provides details like Guest OS (Microsoft Windows Server 2012), Compatibility (ESXi 5.5 and later), and IP address (192.168.5.118). A yellow banner indicates a newer version of VMware Tools is available. Below this, a table lists 'Related Objects' for the VM:

Object Type	Object Name
Cluster	ST&R
Host	192.168.5.118
Networks	DMZ2
Storage	local-118

At the bottom, the 'Recent Tasks' table shows the completion status of the VM creation:

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*.

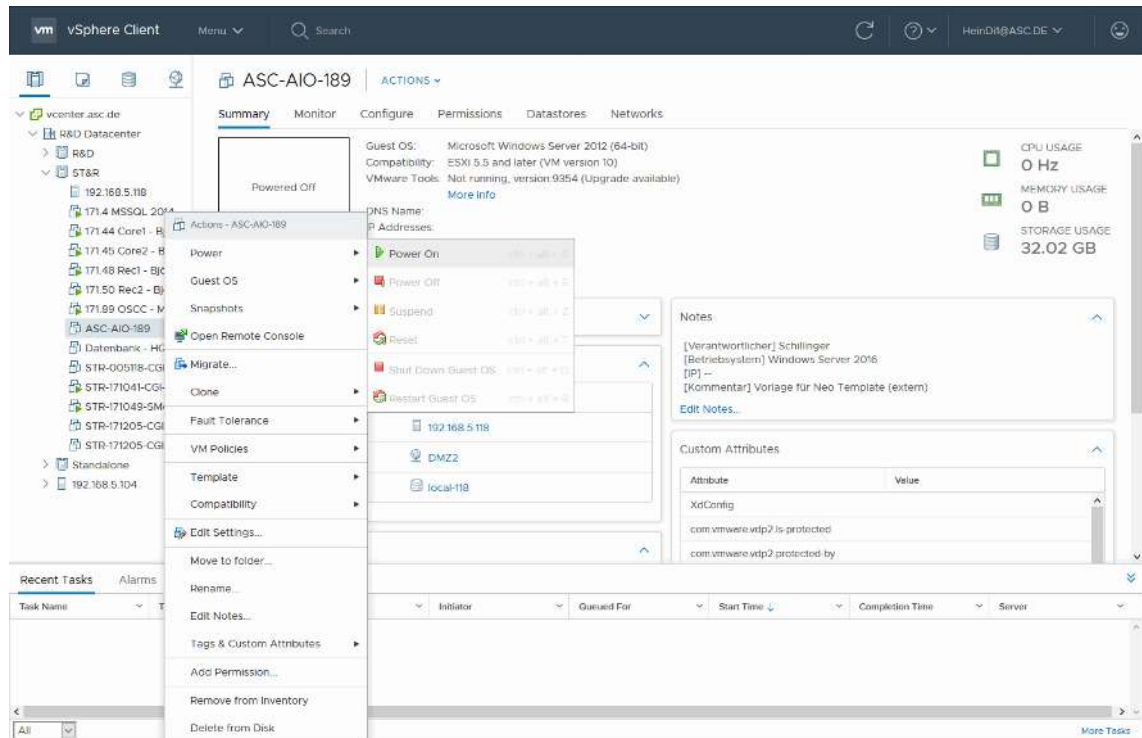


Fig. 15: Switch power on

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.

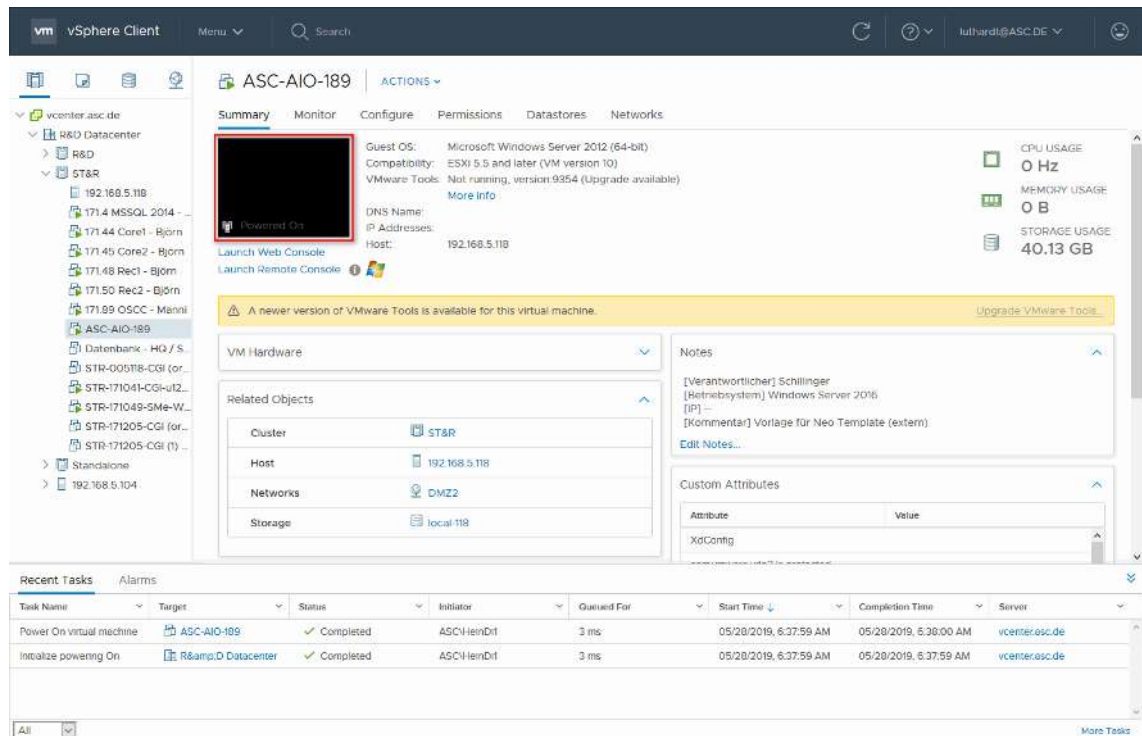


Fig. 16: Display VM in its own tab in the browser

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.

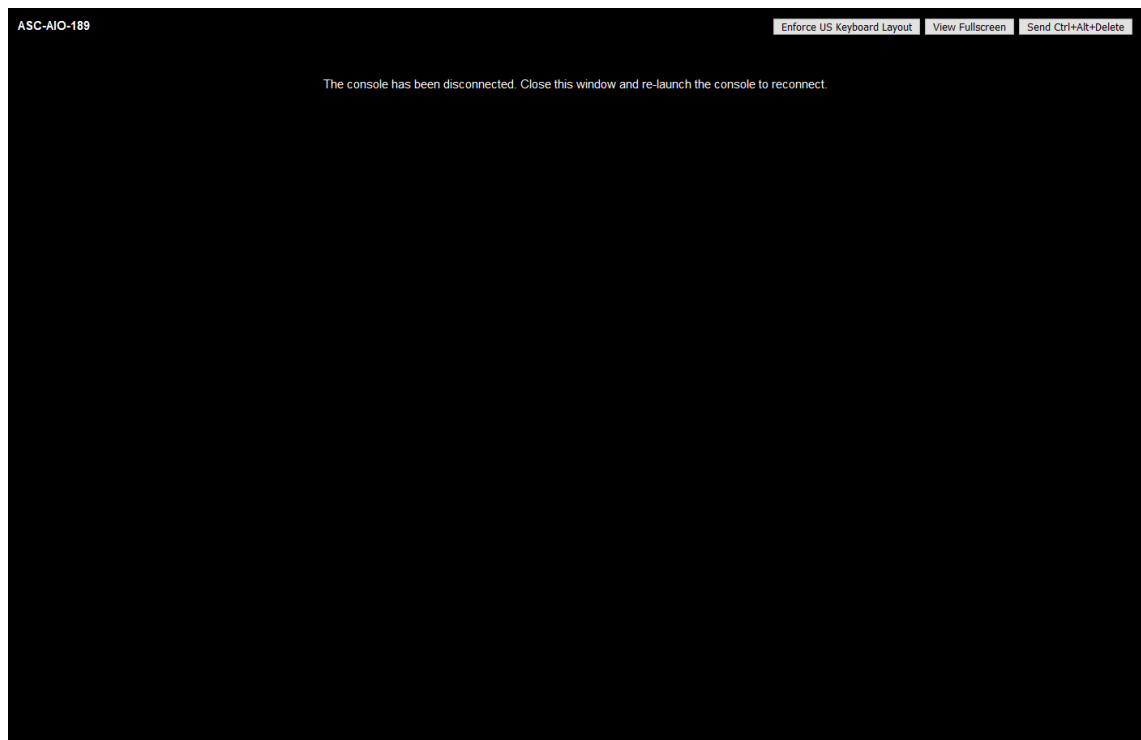


Fig. 17: VM is switched off automatically

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**.

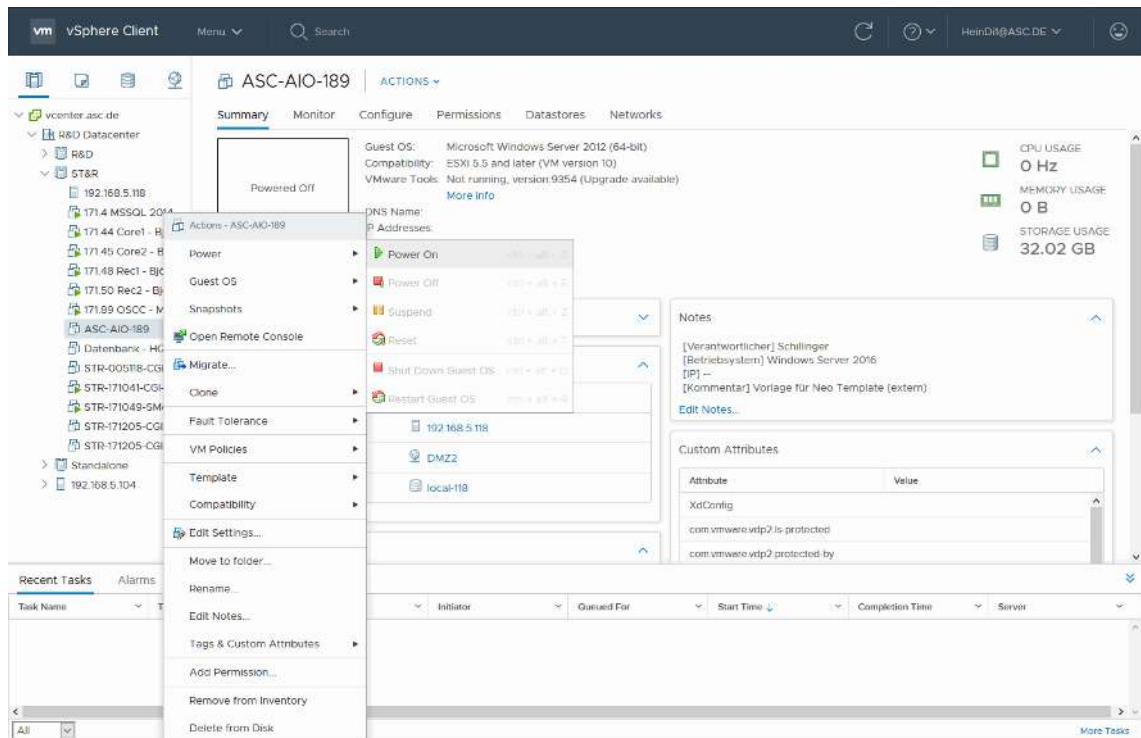


Fig. 18: Switch power on

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.

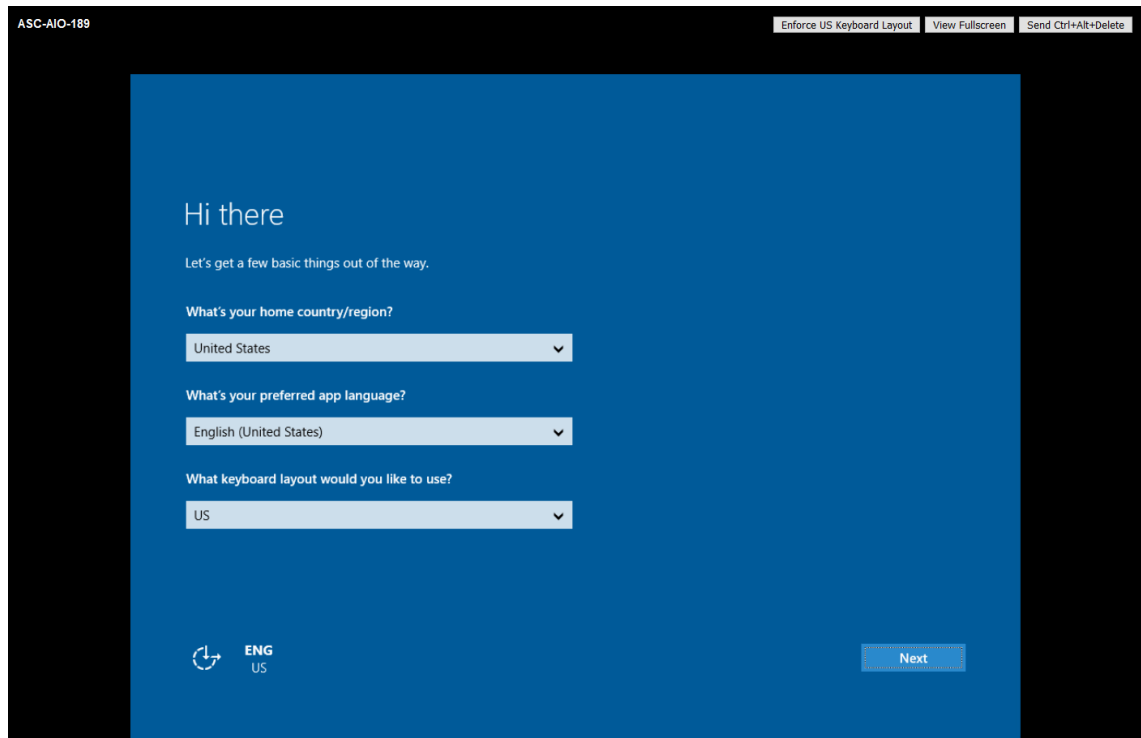


Fig. 19: Select language

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

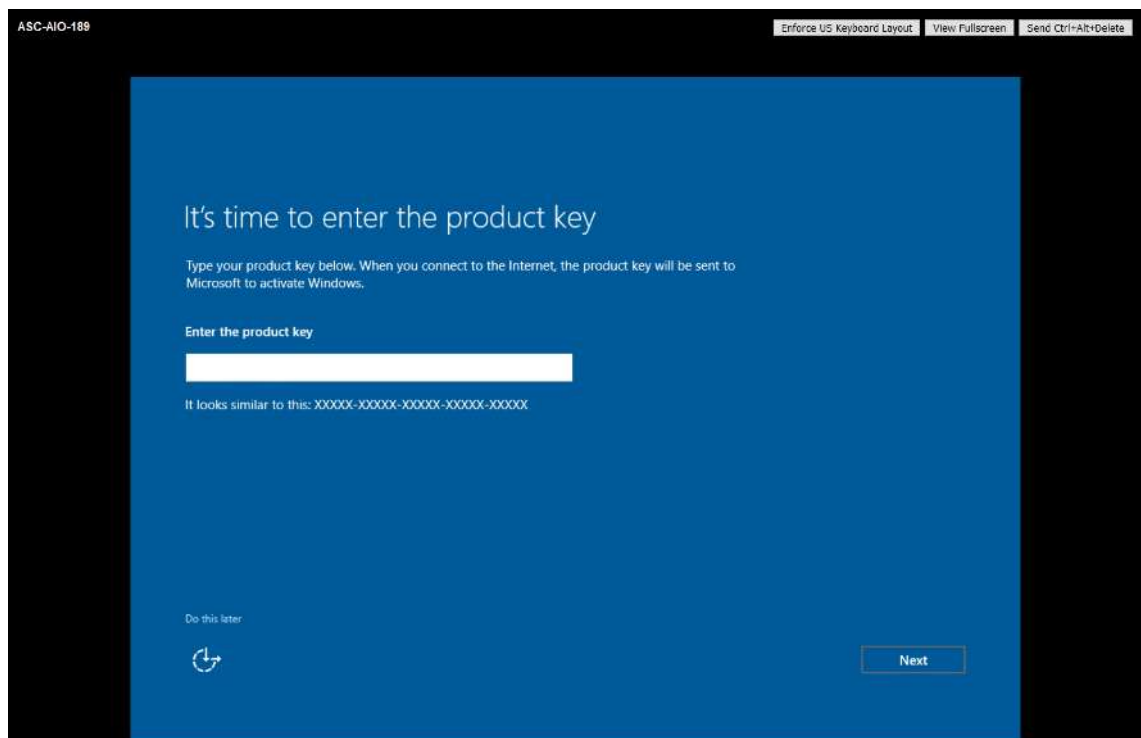


Fig. 20: Enter Windows product key

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

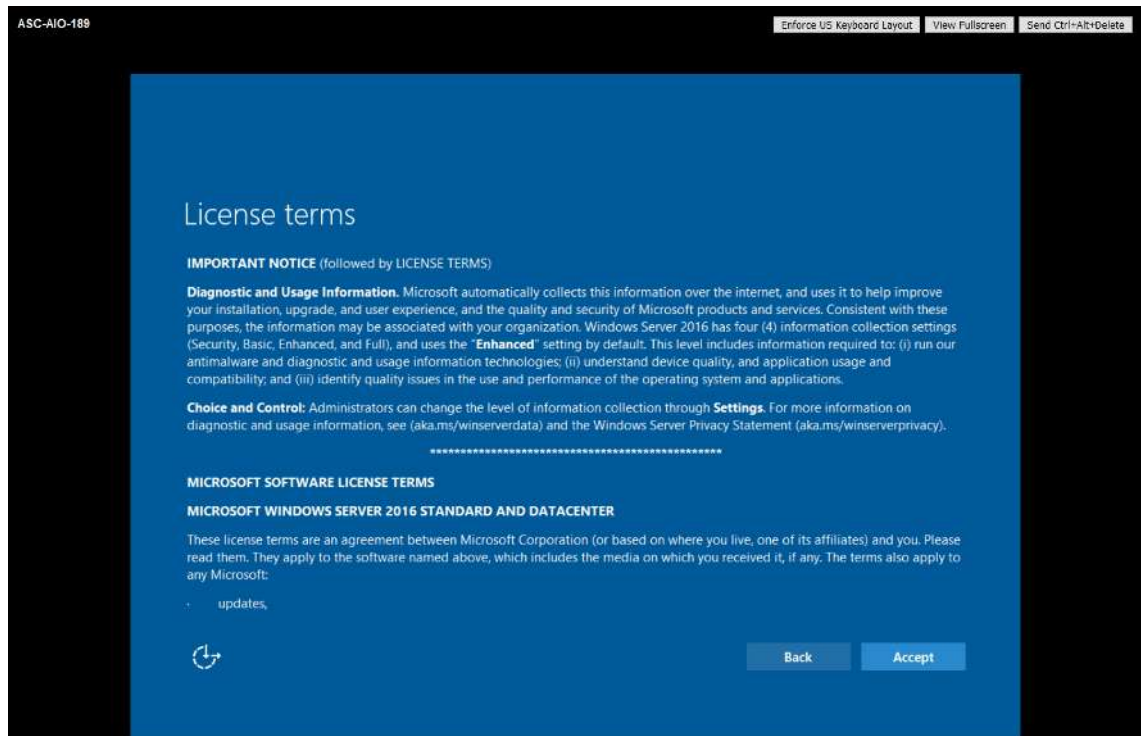


Fig. 21: Accept license terms

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

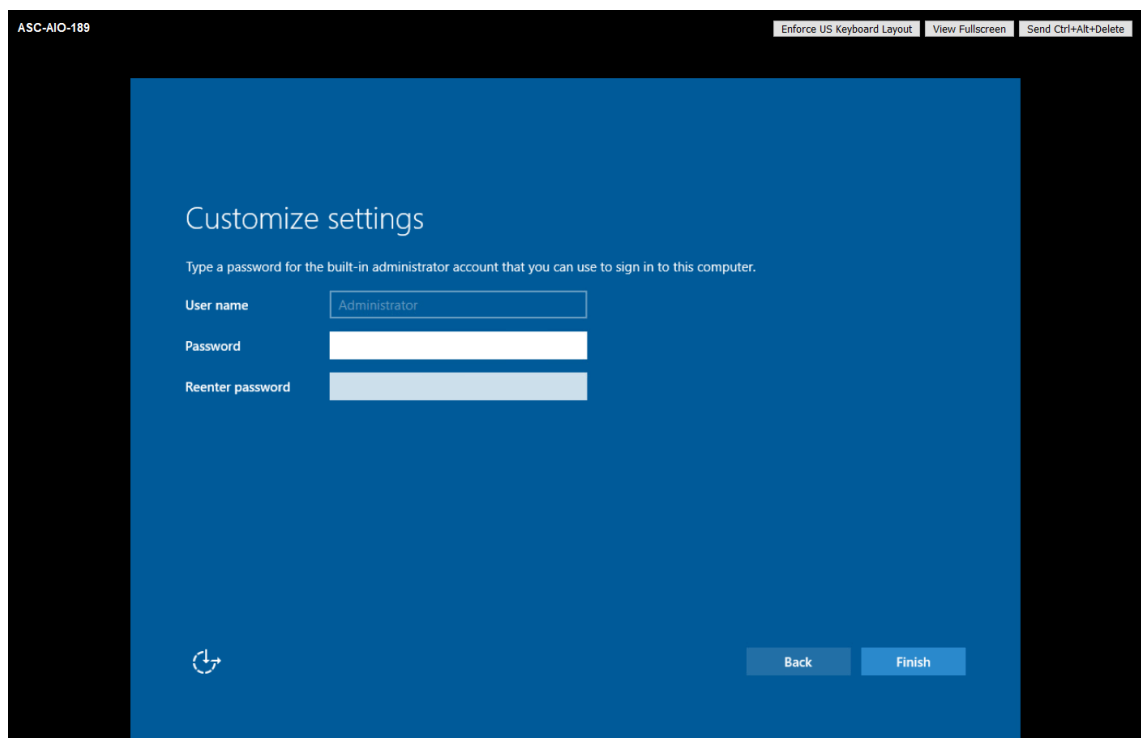


Fig. 22: Enter password for local administrator

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.

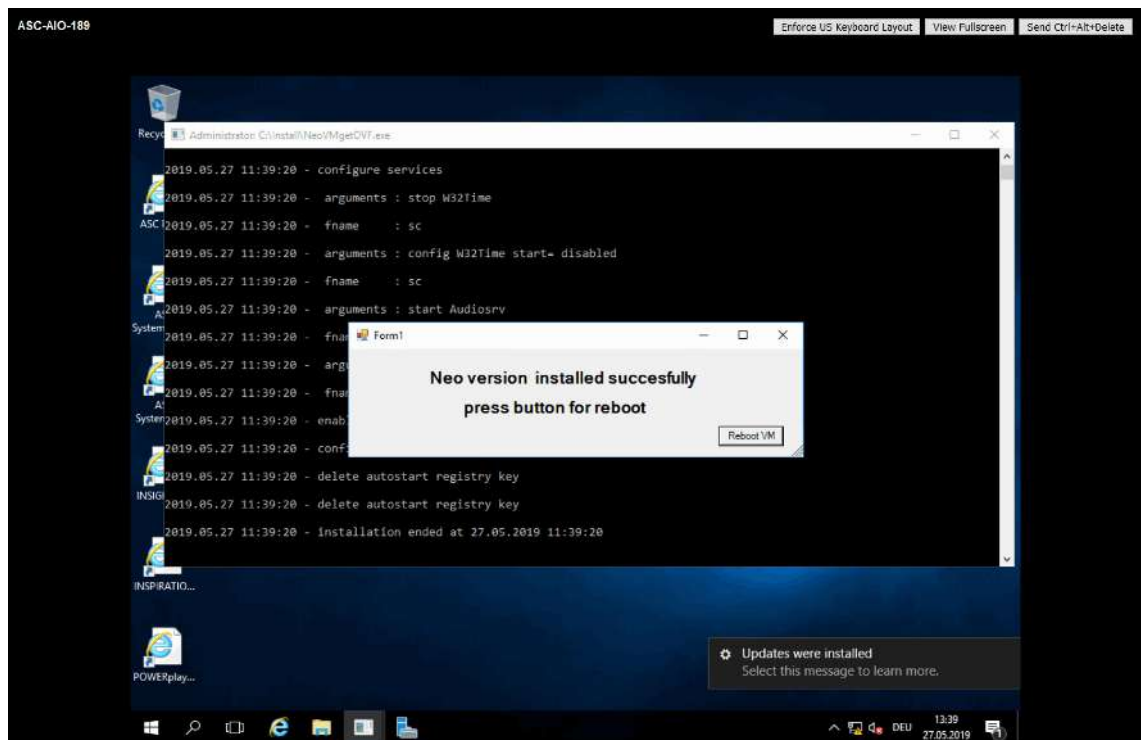


Fig. 23: neo version installed successfully

52. Close the tab *VM*.

List of figures

Fig. 1	vSphere Client (HTML5) - partial functionality	6
Fig. 2	Enter user name and password	6
Fig. 3	Deploy OVF template	7
Fig. 4	Select OVF template	8
Fig. 5	Select OVF template	9
Fig. 6	Select OVF template	10
Fig. 7	Select name and folder	11
Fig. 8	Select compute resource	12
Fig. 9	Verify details.....	13
Fig. 10	Select storage location.....	14
Fig. 11	Select networks.....	15
Fig. 12	Customize template	16
Fig. 13	Ready to complete	18
Fig. 14	VM created successfully	18
Fig. 15	Switch power on.....	19
Fig. 16	Display VM in its own tab in the browser	19
Fig. 17	VM is switched off automatically	20
Fig. 18	Switch power on.....	20
Fig. 19	Select language	21
Fig. 20	Enter Windows product key	21
Fig. 21	Accept license terms	22
Fig. 22	Enter password for local administrator.....	22
Fig. 23	neo version installed successfully	23

List of tables

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