

VM Deployment, Configuration, and Migration (vSphere)

Overview

This project documents the end-to-end lifecycle of a virtual machine in a VMware vSphere environment, from initial deployment through operating system installation, system configuration, asset documentation, and live migration.

Workflow Summary

Deployed a virtual machine from a template using standardized naming and placement

Configured compute, storage, networking, and compatibility settings

Installed CentOS Stream 9 and verified successful boot

Applied post-install system configuration, including hostname and network cleanup

Validated VM state and resource usage in vSphere

Documented the system in AssetTiger for inventory tracking

Performed a compute-only vMotion migration and confirmed successful placement

Result

The virtual machine was successfully deployed, configured, documented, and migrated without downtime, demonstrating practical experience with enterprise virtualization workflows and Linux system administration.

This screenshot shows the vSphere Client Summary page for an ESXi host in a production sandbox environment. The view provides a high-level overview of host hardware, status, and resource utilization.

What's Shown

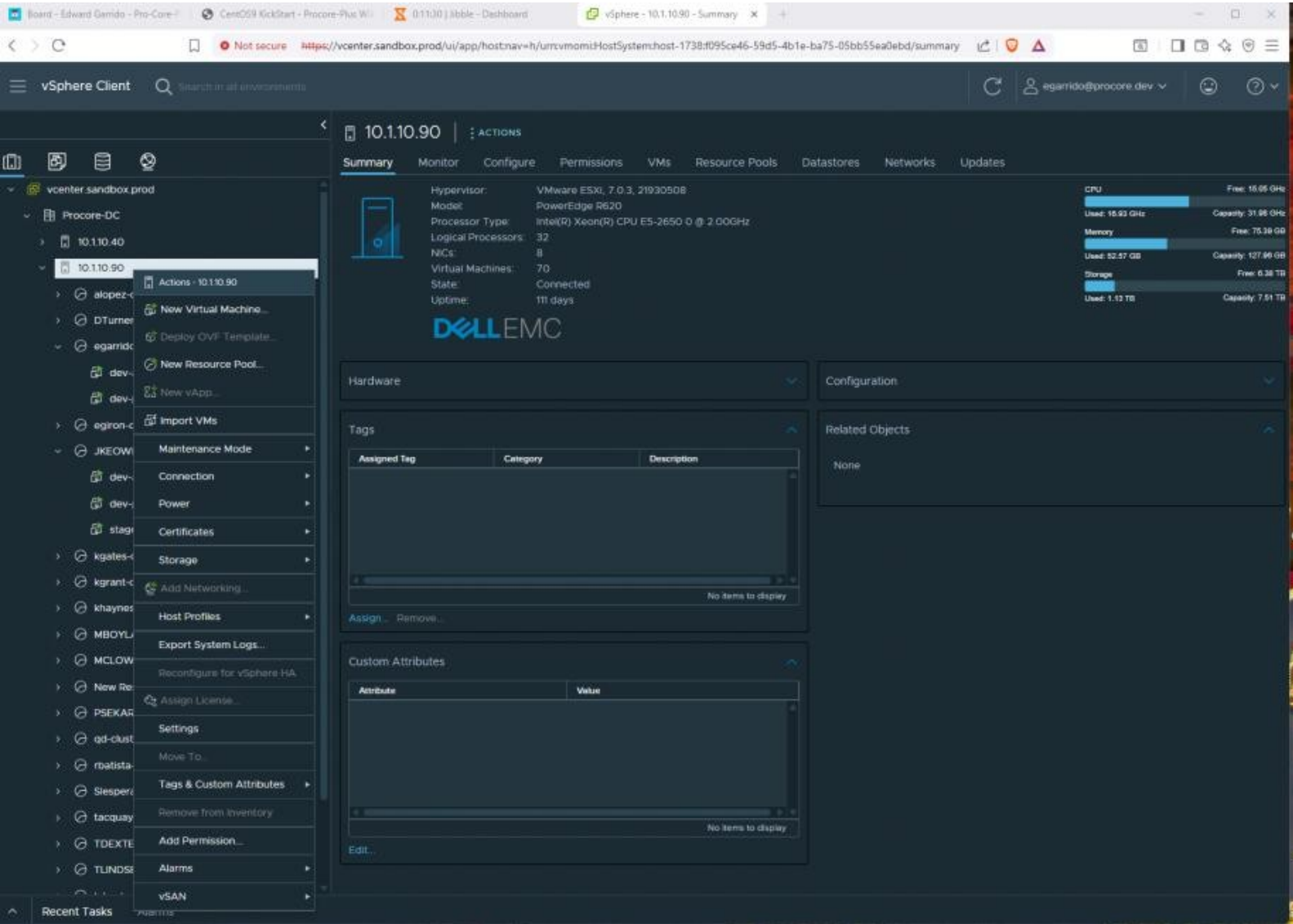
Hypervisor: VMware ESXi (Dell EMC host)

Host State: Connected and operational

Uptime: Continuous runtime without interruption

Hardware Details: CPU model, logical processors, and system memory

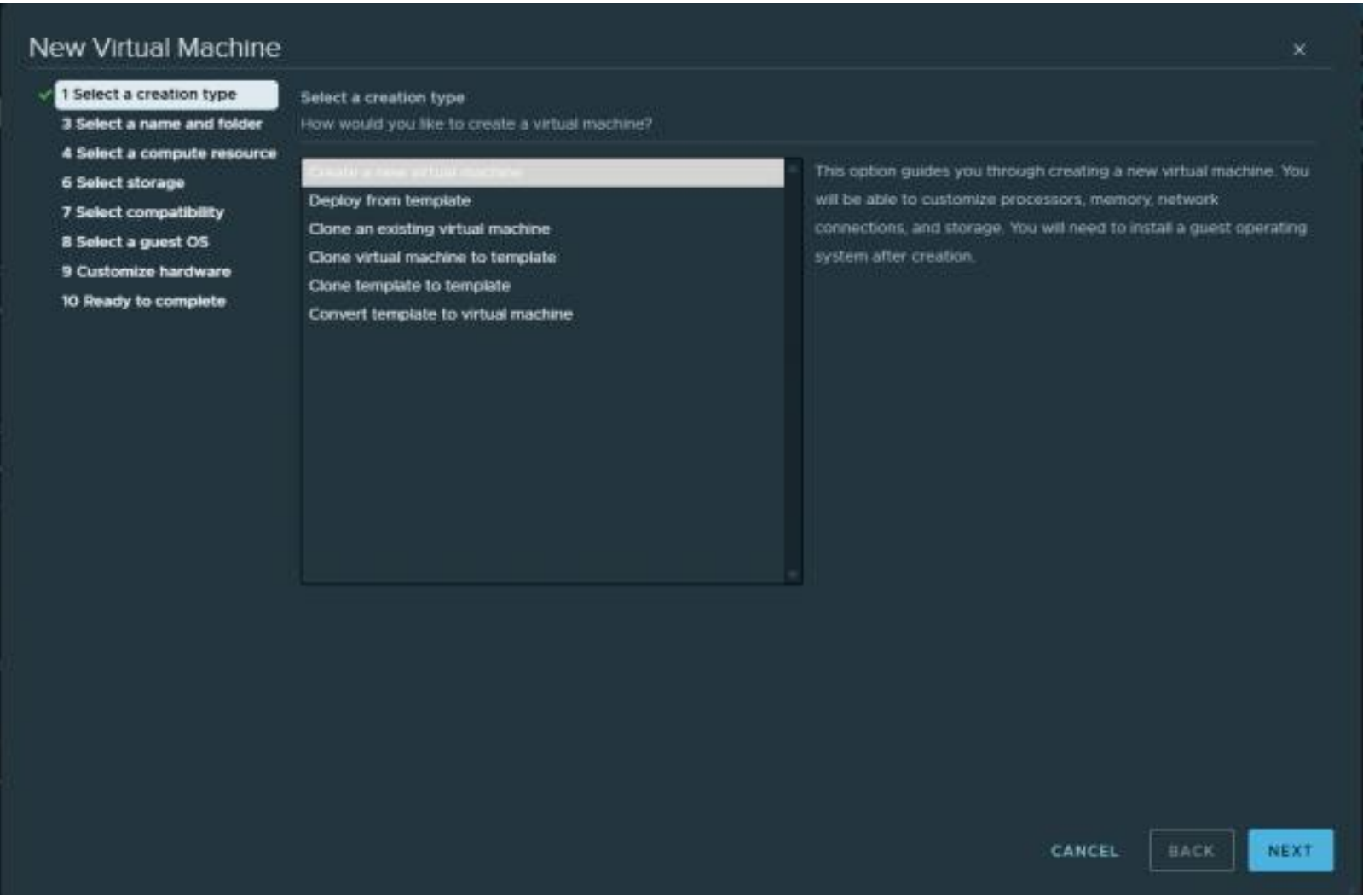
Resource Usage: Real-time CPU, memory, and storage capacity metrics



This screen shows the vSphere New Virtual Machine wizard at the stage where the VM creation method is selected. The Deploy from template option is chosen to create a new virtual machine based on a preconfigured template.

Purpose

Using a template allows for faster, standardized VM provisioning by reusing an existing OS configuration, reducing setup time and ensuring consistency across environments.



Defines the virtual machine name and selects the appropriate vCenter inventory location, ensuring the VM is clearly identified and placed in the correct datacenter before deployment.

New Virtual Machine

1 Select a creation type

3 Select a name and folder

4 Select a compute resource

6 Select storage

7 Select compatibility

8 Select a guest OS

9 Customize hardware

10 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name:stage-web-eg3.procure.prod1

Select a location for the virtual machine.

▼ vcenter.sandbox.prod

> Procure-DC

CANCEL

BACK

NEXT

Selects the destination ESXi host as the compute resource for the virtual machine and confirms compatibility checks before proceeding with deployment.

New Virtual Machine

✓ 1 Select a creation type

✓ 3 Select a name and folder

4 Select a compute resource

6 Select storage

7 Select compatibility

8 Select a guest OS

9 Customize hardware

10 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

Procore-DC

10.110.40

10.110.90

10.115.50

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

Selects the datastore for the virtual machine's configuration and disk files, verifying sufficient capacity and successful compatibility checks before continuing.

New Virtual Machine

✓ 1 Select a creation type

✓ 3 Select a name and folder

✓ 4 Select a compute resource

6 Select storage

7 Select compatibility

8 Select a guest OS

9 Customize hardware

10 Ready to complete

Select storage

Select the storage for the configuration and disk files

VM Storage Policy

☐ Disable Storage DRS for this virtual machine

	Name	Storage Compelibility	Capacity	Provisioned	Free	Type	Cluster	Storage DRS
+	D5-01	--	7.51 TB	2.33 TB	6.37 TB	VMFS 6		

1 item

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

Selects the virtual machine hardware compatibility level (ESXi 7.0 U2 and later), ensuring the VM uses the appropriate hardware version for optimal performance and feature support.

New Virtual Machine

✓ 1 Select a creation type

✓ 3 Select a name and folder

✓ 4 Select a compute resource

✓ 6 Select storage

7 Select compatibility

8 Select a guest OS

9 Customize hardware

10 Ready to complete

Select compatibility

Select compatibility for this virtual machine depending on the hosts in your environment

The host or cluster supports more than one VMware virtual machine version. Select a compatibility for the virtual machine.

Compatible with: ESXi 7.0 U2 and later ⓘ

This virtual machine uses hardware version 19, which provides the best performance and latest features available in ESXi 7.0 U2.

CANCEL

BACK

NEXT

Selects the guest operating system for the virtual machine, specifying Microsoft Windows Server 2019 (64-bit) so vSphere can apply the correct defaults and compatibility settings for the OS installation.

New Virtual Machine



- ✓ 1 Select a creation type
- ✓ 3 Select a name and folder
- ✓ 4 Select a compute resource
- ✓ 6 Select storage
- ✓ 7 Select compatibility
- 8 Select a guest OS**
- 9 Customize hardware
- 10 Ready to complete

Select a guest OS

Choose the guest OS that will be installed on the virtual machine

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Guest OS Family: Windows ▾

Guest OS Version: Microsoft Windows Server 2019 (64-bit) ▾

☐ Enable Windows Virtualization Based Security ⓘ

Compatibility: ESXi 7.0 U2 and later (VM version 19)

CANCEL

BACK

NEXT

Customizes the virtual machine hardware by defining CPU, memory, and disk settings, including allocating a 20 GB virtual disk with thin provisioning and default controller options before deployment.

1 Select a creation type

3 Select a name and folder

4 Select a compute resource

6 Select storage

7 Select compatibility

8 Select a guest OS

9 Customize hardware

10 Ready to complete

Customize hardware

Configure the virtual machine hardware

Virtual Hardware

VM Options

ADD NEW DEVICE

CPU

1

Memory

1

GB

New Hard disk

20

GB

Maximum Size

6.37 TB

VM storage policy

Location

Store with the virtual machine

Disk Provisioning

Thin Provision

Sharing

Unspecified

Shares

Normal

1000

Limit - IOPs

Unlimited

Disk Mode

Dependent

Virtual Device Node

New SCSI controller

SCSI(0.0) New Hard disk

New SCSI controller

LSI Logic SAS

CANCEL

BACK

NEXT

Configures additional virtual machine hardware settings, including network connectivity, ISO attachment, controllers, and device options, ensuring the VM is fully prepared for installation and initial boot.

New Virtual Machine

1 Select a creation type

3 Select a name and folder

4 Select a compute resource

6 Select storage

7 Select compatibility

8 Select a guest OS

9 Customize hardware

10 Ready to complete

Disk Provisioning

Thin Provision

Sharing

Unspecified

Shares

Normal

1000

Limit - IOPs

Unlimited

Disk Mode

Dependent

Virtual Device Node

New SCSI controller

SCSI(0:0) New Hard disk

New SCSI controller *

LSI Logic SAS

New Network *

YT-Intran-VLAN

Connect

New CD/DVD Drive *

Datastore ISO File

Connect

New USB Controller

USB 3.1

Video card *

Specify custom settings

Security Devices

Not Configured

VMCI device

New SATA Controller

New SATA Controller

Other

Additional Hardware

Compatibility: ESXi 7.0 U2 and later (VM version 19)

CANCEL

BACK

NEXT

Reviews and confirms all virtual machine configuration settings, including compute, storage, networking, and guest OS details, before finalizing and creating the virtual machine.

New Virtual Machine

✓ 1 Select a creation type

✓ 3 Select a name and folder

✓ 4 Select a compute resource

✓ 6 Select storage

✓ 7 Select compatibility

✓ 8 Select a guest OS

✓ 9 Customize hardware

10 Ready to complete

Folder	Procore-DC
Host	10.1.10.90
Datastore	DS-01
Guest OS name	Microsoft Windows Server 2019 (64-bit)
Virtualization Based Security	Disabled
CPUs	1
Memory	1 GB
NICs	1
NIC 1 network	YT-Intran-VLAN
NIC 1 type	E1000E
SCSI controller 1	LSI Logic SAS
Create hard disk 1	New virtual disk
Capacity	20 GB
Datastore	DS-01
Virtual device node	SCSI(0:0)
Mode	Dependent

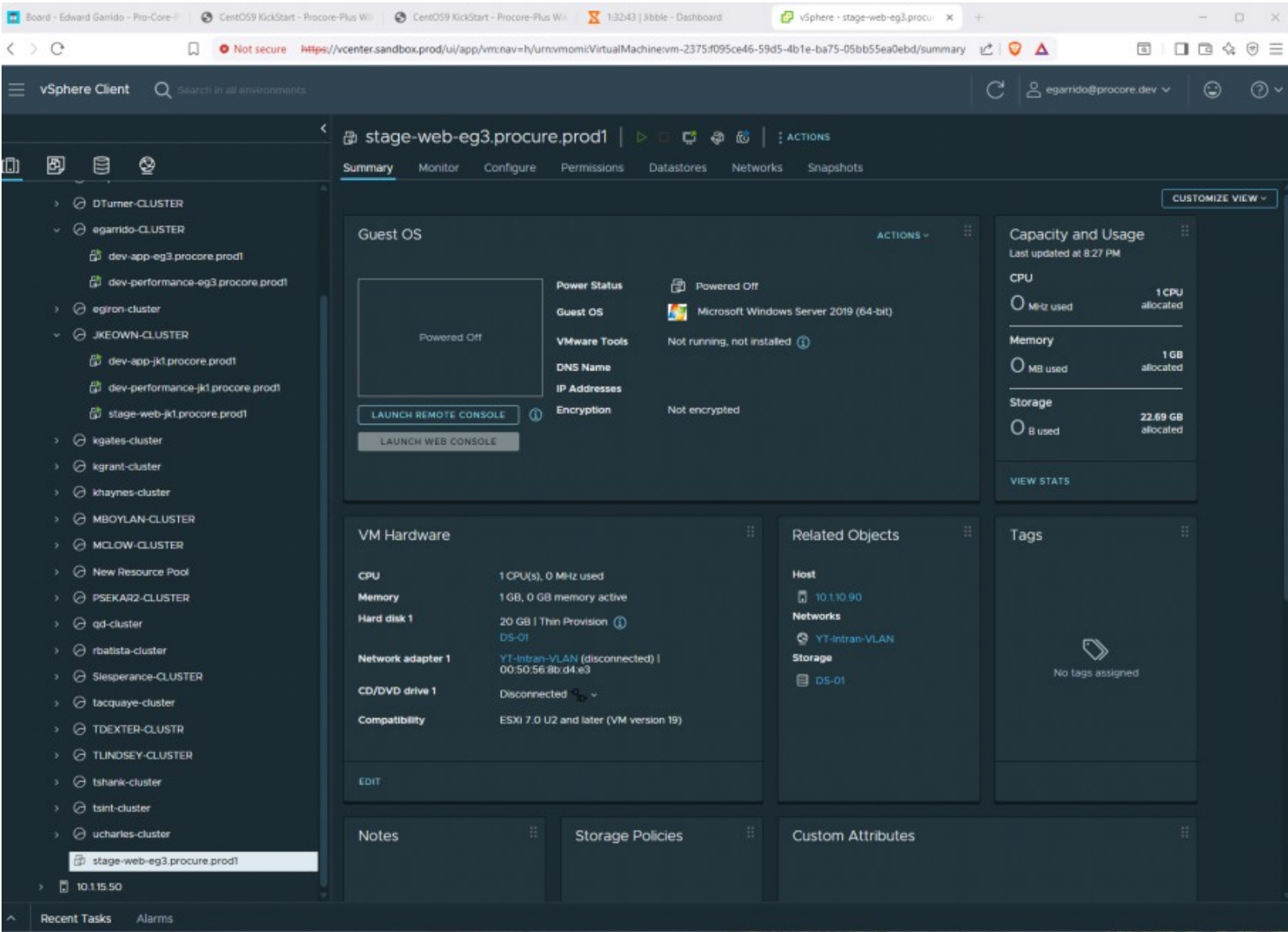
Compatibility: ESXi 7.0 U2 and later (VM version 19)

CANCEL

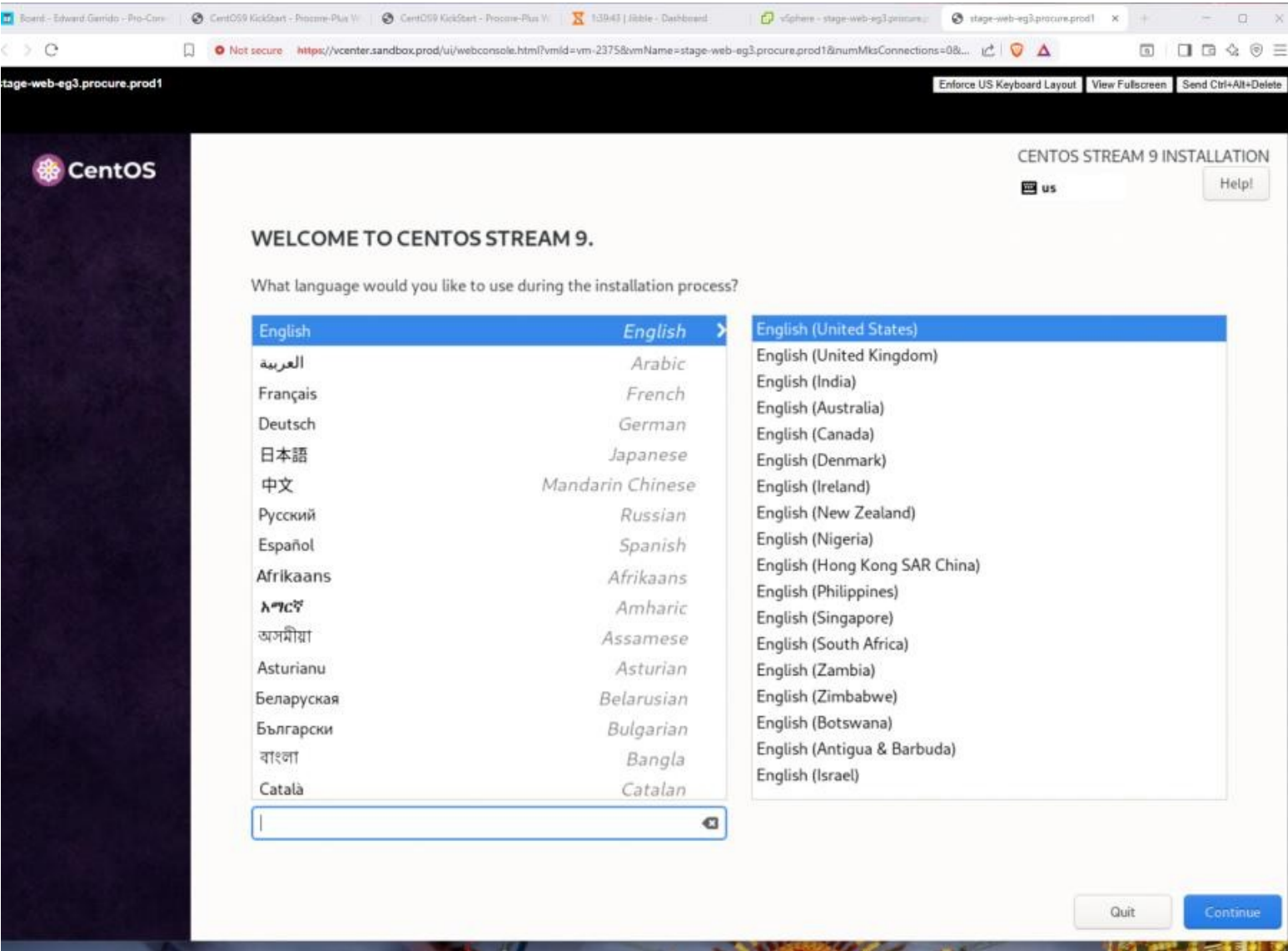
BACK

FINISH

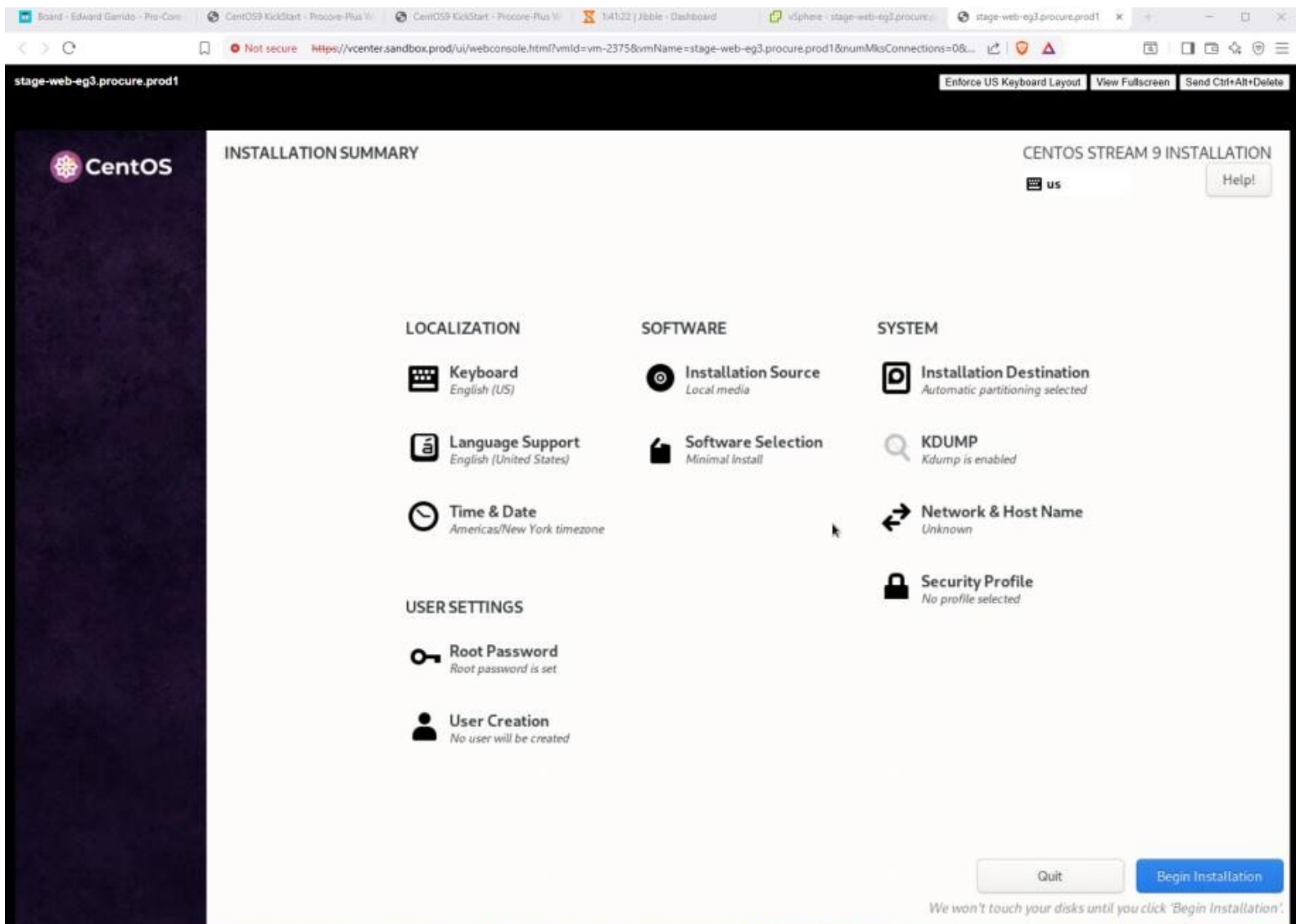
Confirms successful creation of the virtual machine in vSphere, showing its current powered-off state, assigned resources, guest OS configuration, and network/storage associations in the Summary view.



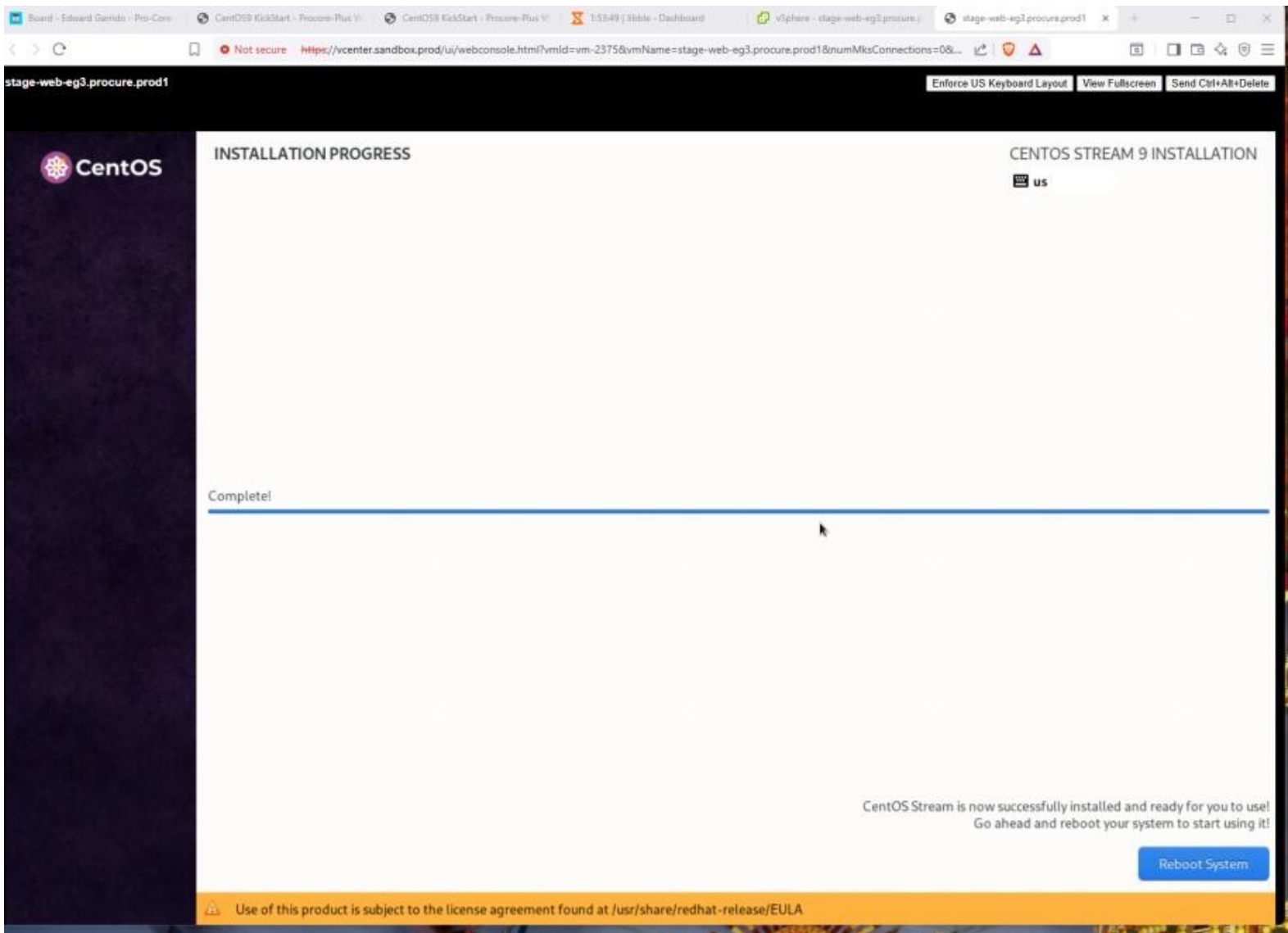
Launches the CentOS Stream 9 installer via the VM console and begins the operating system installation by selecting the installation language and locale.



Reviews the CentOS Stream 9 installation summary, confirming localization, software selection, storage configuration, and system settings before beginning the operating system installation.



Completes the CentOS Stream 9 installation, confirming a successful install and prompting for a system reboot to begin using the newly configured virtual machine.



Begins asset registration by opening the Add an Asset form in AssetTiger, preparing to document server details such as hostname, hardware specs, network information, OS, and ownership for inventory tracking.

Board - Edward Garrido - Proc...

CentOS8 KickStart - Procure...

CentOS8 KickStart - Procure...

157593 | Jibble - Dashboard

vSphere - stage-web-eg3.p...

stage-web-eg3.procure.pro...

Add an Asset - AssetTig...

assettiger.com/assets/add

Changelog Sep 15Buy Asset TagsEdward Garrido

ASSETTIGER

List of AssetsAdd an AssetSearch

Procure

Edward Garrido

Dashboard

Assets

List of Assets

Add an Asset

Move

Reports

Tools

Setup

Help / Support

Download Assettiger App

GET IT ON Google Play

Download on the App Store

Review us on Capterra 4.6

Add an Asset

Asset Details

Asset Tag ID *

Server Name *

Serial No

Description *

Owner *Brand

Model

Organization *

IP *

MAC *

CPU *

Memory *

OS *

Status *Select Status

Group *Select Group

Populates the AssetTiger asset record with the virtual machine's details, including hostname, OS, IP address, MAC address, CPU, memory, ownership, and environment, completing inventory documentation for the newly deployed server.

Board - Edward Garrido

CentOS9 KickStart - Pro...

CentOS9 KickStart - Pro...

2:10:24 | Jibble - Dashb...

vSphere - stage-web-eg...

stage-web-eg3.procore...

Add an Asset - Ass...

Pro-Core Plus-IPAM-10...

assettiger.com/assets/add

Changelog Sep 15Buy Asset TagsEdward Garrido

ASSETTIGER

List of AssetsAdd an AssetSearch

Procore

Edward Garrido

Dashboard

Assets

List of Assets

Add an Asset

Move

Reports

Tools

Setup

Help / Support

Download Assettiger App

GET IT ON Google Play

Download on the App Store

Review us on Capterra 4.6

Server Name *stage-web-eg3.procore.prod1

Serial No cd2f0b42-feae-7a32-af0e-cc26640125e5

Description *CentOS Stream 9

Owner *edward.garrido

Brand

Model

Organization *Pro-CorePlus

IP *10.1.31.136

MAC *00:50:56:8b:d4:e3

CPU *1 VCPU

Memory *1GB

OS *CentOS Stream 9

Status *Active

GroupDev

Site, Category and Department

SiteSelect Site+ New

CategorySelect Category+

Need Help?

Verifies the completed asset record in AssetTiger, confirming that the virtual machine details—hostname, OS, IP, MAC, CPU, memory, ownership, and status—are accurately recorded and available for inventory tracking.

Board - Edward Garrido

CentOS9 KickStart - Pro

CentOS9 KickStart - Pro

2:17:24 | Jibble - Dashbo

vSphere - stage-web-eg

stage-web-eg3.procore

Assets Details - As

Pro-Core Plus-IPAM-10

assettiger.com/assets/detail/36376038

Assets Details - As

Pro-Core Plus-IPAM-10

ASSETTIGER

List of Assets

Add an Asset

Search

Changelog

Sep 15

Buy Asset Tags

Edward Garrido

Procore

Edward Garrido

Dashboard

Assets

List of Assets

Add an Asset

Move

Reports

Tools

Setup

Help / Support

Download Assettiger App

GET IT ON Google Play

Download on the App Store

Review us on Capterra 4.6

Asset View

CentOS Stream 9

Asset Tag ID

EG_TICKET21

Brand

Model

Site

vSphere

Location

virtual

Category

Assigned to

Status

Available

Print

Edit Asset

More Actions

Details

History

Asset Details

Miscellaneous

Serial No

cd2f0b42-feae-7a32-af0a-cc26640125e5

Custom fields

Server Name

stage-web-eg3.procore.prod1

Organization

Pro-CorePlus

IP

10.131.136

CPU

1 VCPU

OS

CentOS Stream 9

Owner

edward.garrido

Status

Active

MAC

00:50:56:8b:d4:e3

Memory

1GB

Group

Dev

Creation

Date Created

09/23/2025 09:12 PM

Created by

Edward Garrido

About Us

Terms of Service

Privacy Policy

Contact

2025 © AssetTiger by MyAssetTag.com

Need Help?

Removes an unused network connection, verifies active network interfaces, and updates the system hostname using elevated privileges after resolving permission and authentication requirements.

```
legarrido@stage-web-eg3 ~]$ nmcli con show
NAME UUID TYPE DEVICE
LAN1 b18c2249-d10a-40bd-8d82-fc9a5f549412 ethernet ens192
lo ed271182-b810-4196-aa32-95f42c7cacf3 loopback lo
legarrido@stage-web-eg3 ~]$ nmcli con delete LAN1
Connection 'LAN1' (b18c2249-d10a-40bd-8d82-fc9a5f549412) successfully deleted.
legarrido@stage-web-eg3 ~]$ nmcli con show
NAME UUID TYPE DEVICE
lo ed271182-b810-4196-aa32-95f42c7cacf3 loopback lo
legarrido@stage-web-eg3 ~]$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:50:56:8b:d4:e3 brd ff:ff:ff:ff:ff:ff
    altname enp11s0
legarrido@stage-web-eg3 ~]$ hostnamectl set-hostname DELETE
==== AUTHENTICATING FOR org.freedesktop.hostname1.set-static-hostname ====
Authentication is required to set the statically configured local hostname, as well as the pretty hostname
Authenticating as: procore
Password: Could not set static hostname: Connection timed out
legarrido@stage-web-eg3 ~]$ su - root
Password:
Last login: Wed Sep 24 23:31:20 EDT 2025 on pts/0
[root@stage-web-eg3 ~]# hostnamectl set-hostname DELETE
[root@stage-web-eg3 ~]# exec bash
[root@DELETE ~]#
```

Confirms the virtual machine is powered on in vSphere with CentOS 9 installed, displaying updated hostname, IP address, and active resource usage in the Summary view after post-install configuration.

☰

vSphere Client

🔍 Search in all environments

🔄

👤

😊

❓

<

DELETE

ACTIONS

Summary

Monitor

Configure

Permissions

Datastores


Networks

Snapshots

CUSTOMIZE VIEW

GUEST OS

ACTIONS



Power Status

Powered On

Guest OS

CentOS 9 (64-bit)

VMware Tools

Running, version:12448 (Guest Managed)

DNS Name (1)

DELETE

IP Addresses

Encryption

Not encrypted

LAUNCH REMOTE CONSOLE

LAUNCH WEB CONSOLE

CAPACITY AND USAGE

Last updated at 9:08 AM

CPU

19 MHz used

1 CPU allocated

Memory

92 MB used

1 GB allocated

Storage

3.22 GB used

21.08 GB allocated

VIEW STATS

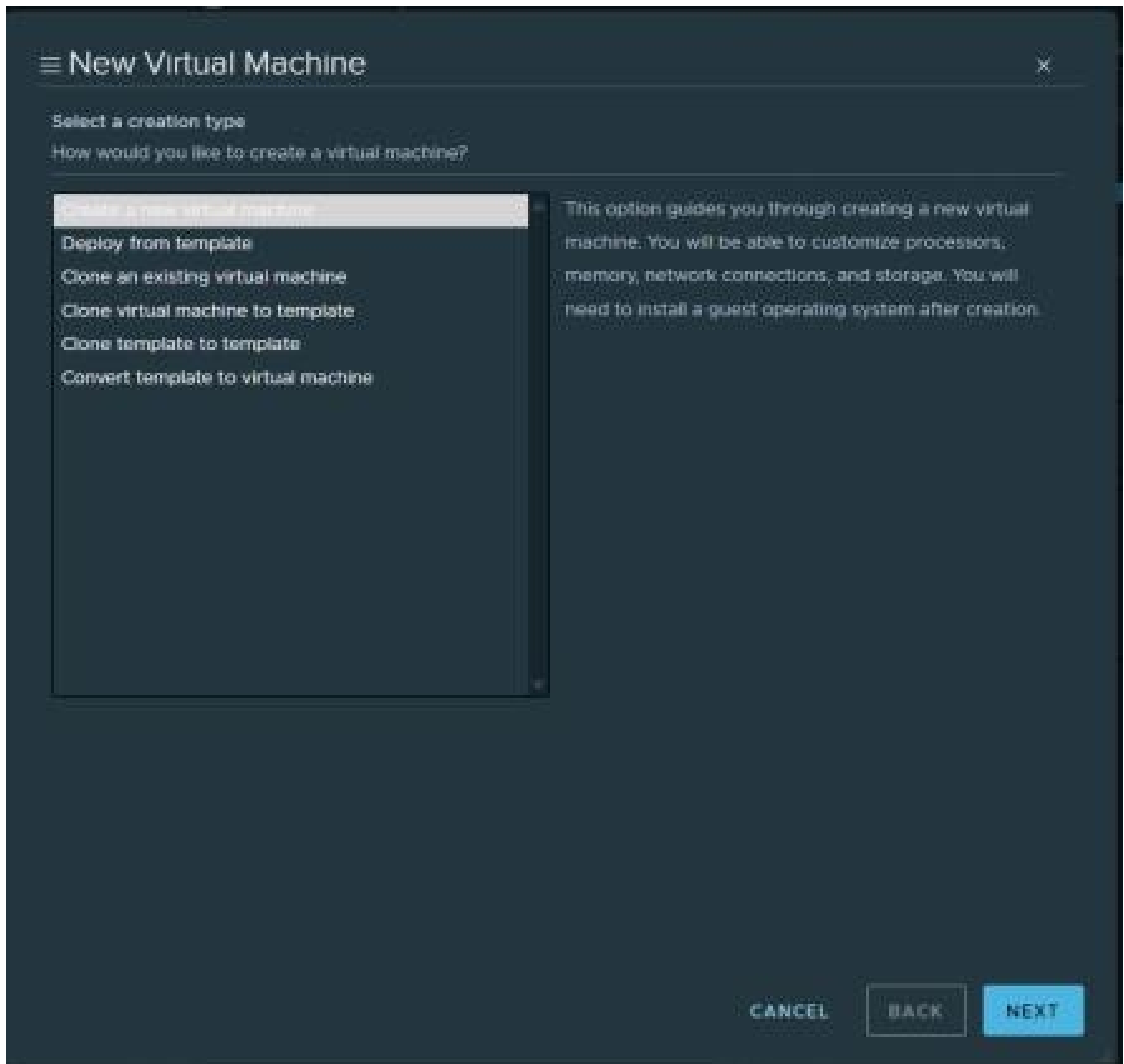
10.115.50

DELETE

Recent Tasks

Alarms

Selects Deploy from template as the virtual machine creation method, enabling standardized and efficient VM provisioning using a preconfigured template.



Assigns the virtual machine name and selects the appropriate vCenter datacenter and folder, ensuring proper identification and placement before deployment.

New Virtual Machine

Select a name and folder

Specify a unique name and target location

Virtual machine name:

stage-web-eg3 procure prod1

Select a location for the virtual machine.

▼ vcenter sandbox prod

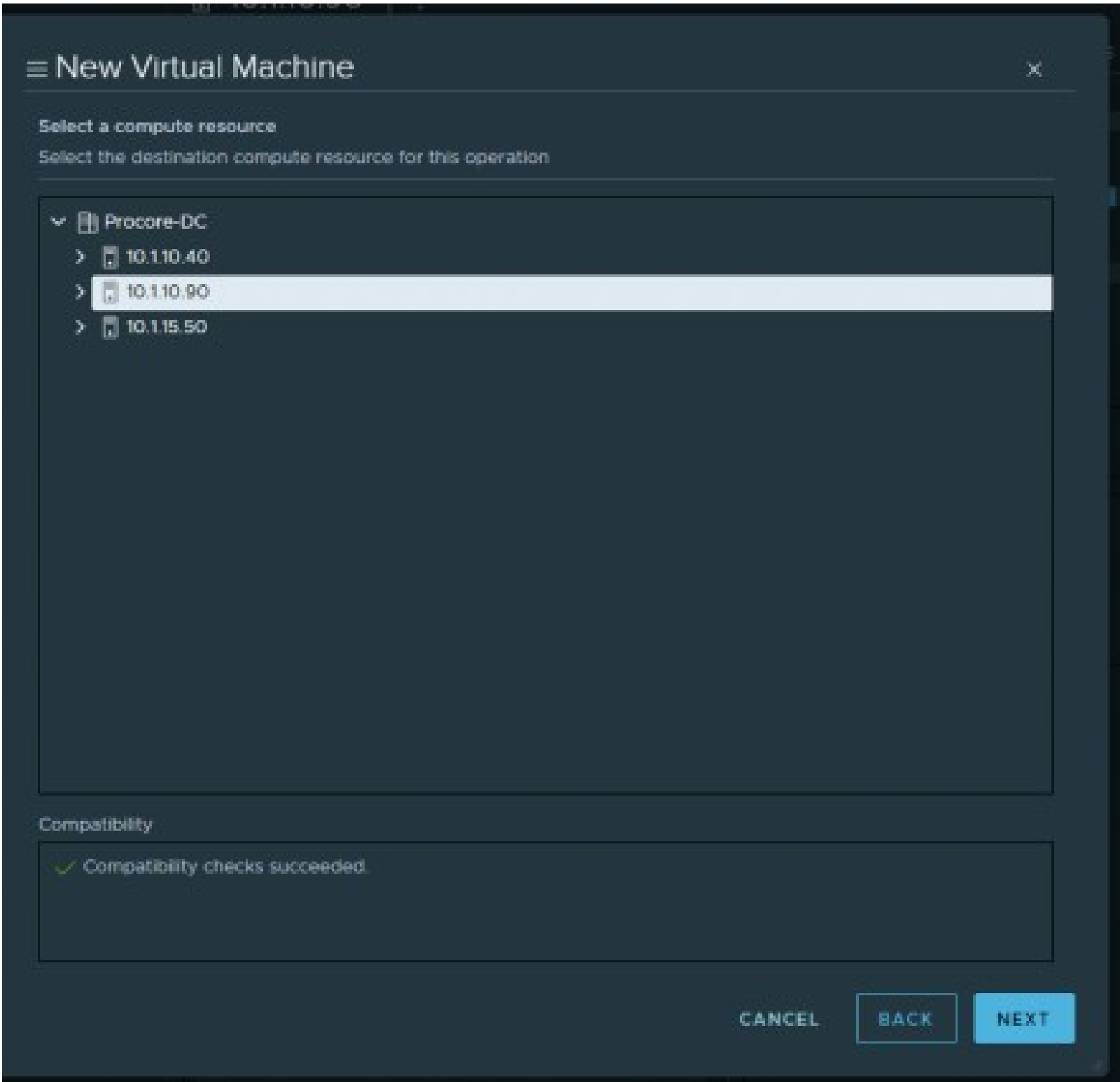
> Procore-DC

CANCEL

BACK

NEXT

Selects the destination ESXi host as the compute resource for the virtual machine and confirms compatibility before proceeding with deployment.



Selects the datastore for the virtual machine’s configuration and virtual disks, confirming available capacity and successful compatibility checks before continuing.

New Virtual Machine

Select storage

Select the storage for the configuration and disk files

VM Storage Policy

☐ Disable Storage DRS for this virtual machine

	Name	Storage Compatibility	Capacity	Provisioned	Free	Type	Cluster
<div></div>	<div>DS-01</div>	--	7.51 TB	2.36 TB	6.35 TB	VMFS 6	

1 item

Compatibility

✓

Compatibility checks succeeded.

CANCEL

BACK

NEXT

Selects the virtual machine hardware compatibility level (ESXi 7.0 U2 and later) to ensure optimal performance and feature support for the VM.

≡ New Virtual Machine

X

Select compatibility

Select compatibility for this virtual machine depending on the hosts in your environment

The host or cluster supports more than one VMware virtual machine version. Select a compatibility for the virtual machine.

Compatible with: ESXi 7.0 U2 and later ⓘ

This virtual machine uses hardware version 15, which provides the best performance and latest features available in ESXi 7.0 U2.

CANCEL

BACK

NEXT

Selects the datastore for the virtual machine's configuration and virtual disks, confirming available capacity and successful compatibility checks before continuing.

Selects the guest operating system type and version (Microsoft Windows Server 2019, 64-bit), allowing vSphere to apply the correct defaults and compatibility settings for the virtual machine.

≡ New Virtual Machine

Select a guest OS

Choose the guest OS that will be installed on the virtual machine.

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Guest OS Family: Windows ▾

Guest OS Version: Microsoft Windows Server 2019 (64-bit) ▾

☐ Enable Windows Virtualization Based Security ⓘ

Compatibility: ESXi 7.0 U2 and later (VM version 19)

CANCEL

BACK

NEXT

Configures the remaining virtual machine hardware settings, including disk provisioning, network connectivity, ISO attachment, and controller options, ensuring the VM is fully prepared for installation.

New Virtual Machine

1 Select a creation type

3 Select a name and folder

4 Select a compute resource

6 Select storage

7 Select compatibility

8 Select a guest OS

9 Customize hardware

10 Ready to complete

Disk Provisioning

Thin Provision

Sharing

Unspecified

Shares

Normal

1000

Limit - IOPs

Unlimited

Disk Mode

Dependent

Virtual Device Node

New SCSI controller

SCSI(0:0) New Hard disk

New SCSI controller *

LSI Logic SAS

New Network *

YT-Intran-VLAN

Connect...

New CD/DVD Drive *

Datastore ISO File

Connect...

New USB Controller

USB 3.1

Video card *

Specify custom settings

Security Devices

Not Configured

VMCI device

New SATA Controller

New SATA Controller

Other

Additional Hardware

Compatibility: ESXi 7.0 U2 and later (VM version 19)

CANCEL

BACK

NEXT

Customizes core virtual machine hardware by setting CPU, memory, disk size, network, and installation media, finalizing the VM configuration before creation.

New Virtual Machine

Virtual Hardware

VM Options

ADD NEW DEVICE

> CPU *	1		
> Memory *	1		GB
> New Hard disk *	20	GB	
> New SCSI controller *	LSI Logic SAS		
> New Network *	YT-Intran-VLAN	<input checked="" type="checkbox"/> Connect...	
> New CD/DVD Drive *	Datastore ISO File	<input checked="" type="checkbox"/> Connect...	
> New USB Controller	USB 3.1		
> Video card *	Specify custom settings		
> Security Devices	Not Configured		
VMCI device			
New SATA Controller			
New SATA Controller			
> Other	Additional Hardware		

Compatibility: ESXi 7.0 U2 and later (VM version 19)

CANCEL

BACK

NEXT

Reviews and confirms all virtual machine settings—including compute, storage, networking, and guest OS—before finalizing and creating the virtual machine.

≡ New Virtual Machine



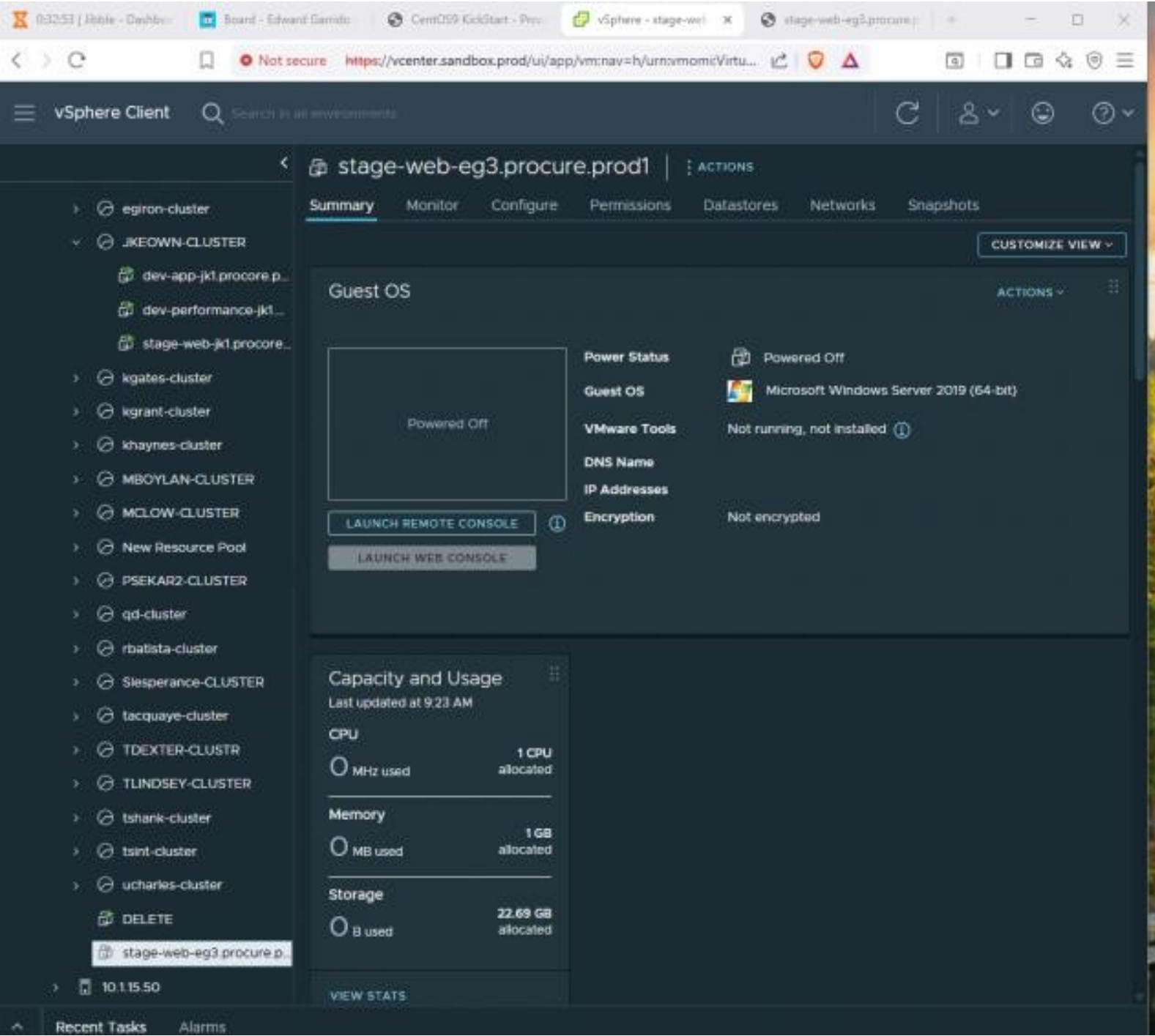
Virtual machine name	stage-web-eg3.procure.profl
Folder	Procore-DC
Host	10.1.10.90
Datastore	DS-01
Guest OS name	Microsoft Windows Server 2019 (64-bit)
Virtualization Based Security	Disabled
CPUs	1
Memory	1 GB
NICs	1
NIC 1 network	YT-Intran-VLAN
NIC 1 type	E1000E
SCSI controller 1	LSI Logic SAS
Create hard disk 1	New virtual disk
Capacity	20 GB
Datastore	DS-01
Virtual device node	SCSI(0:0)
Mode	Dependent

CANCEL

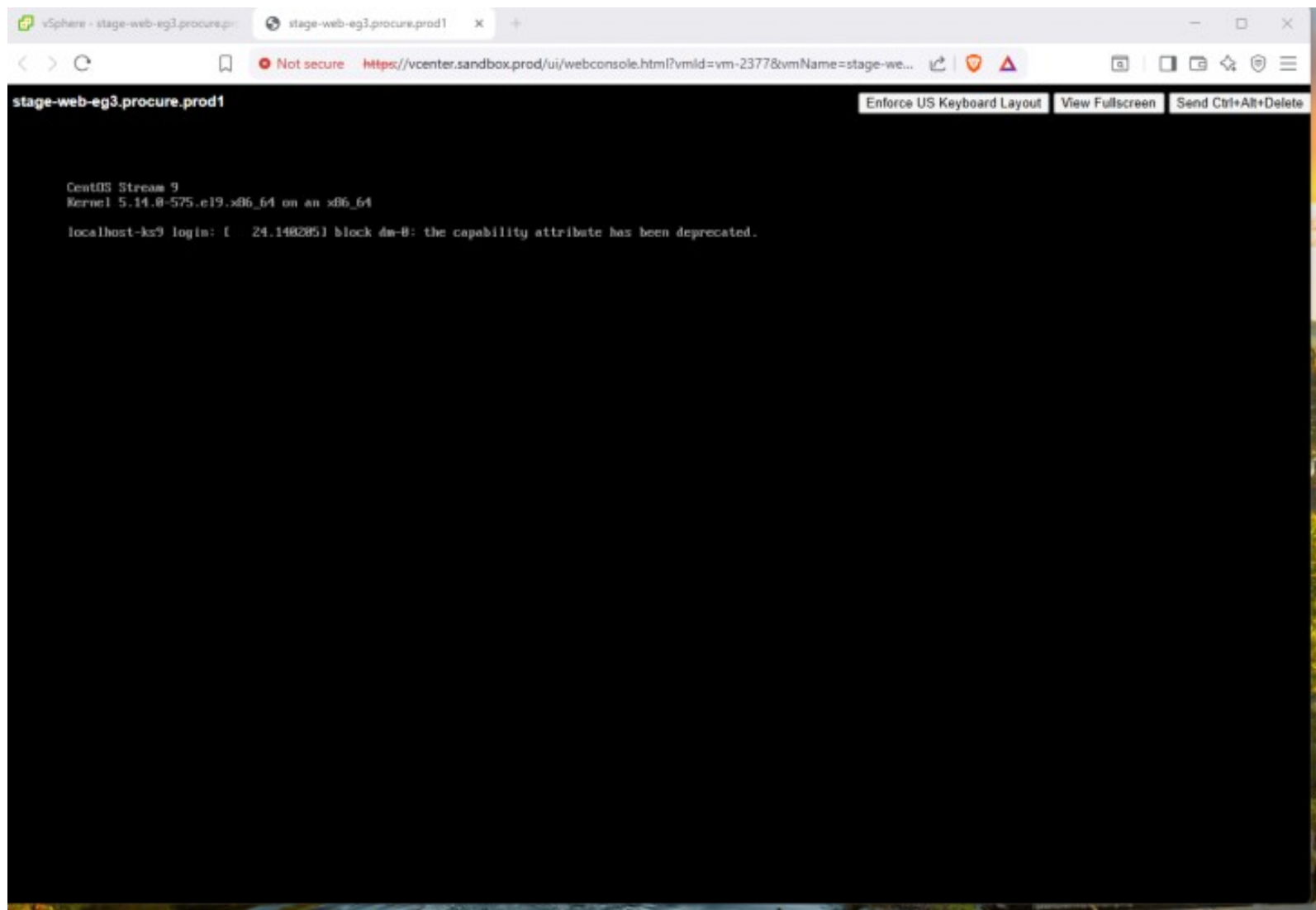
BACK

FINISH

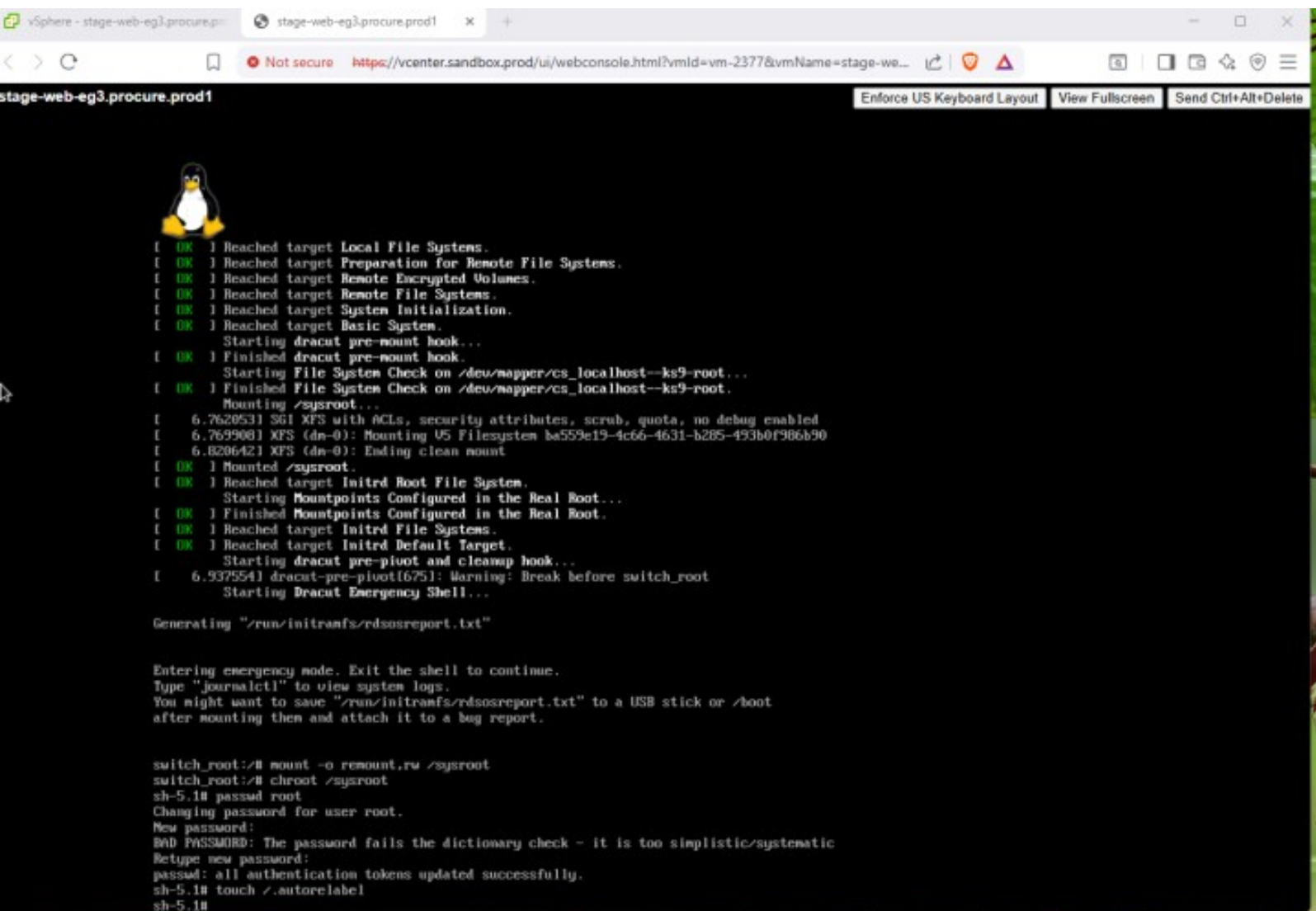
Confirms the newly created virtual machine appears in vSphere with the assigned configuration, showing its initial powered-off state and allocated resources prior to operating system installation.



Displays the CentOS Stream 9 console login screen after VM creation, confirming the operating system has booted successfully and is ready for initial configuration and user login.



Shows the CentOS Stream 9 boot process entering emergency mode, displaying system initialization messages and filesystem checks while prompting for root authentication to perform recovery or corrective actions.



The screenshot displays a vSphere web console window with a single tab titled "stage-web-eg3.procure.prod1". The address bar shows the URL "https://vcenter.sandbox.prod/ui/webconsole.html?vmId=vm-2377&vmName=stage-we...". The console output shows the CentOS Stream 9 boot process. It starts with the Tux penguin logo and a series of "Reached target" messages for Local File Systems, Preparation for Remote File Systems, Remote Encrypted Volumes, Remote File Systems, System Initialization, and Basic System. It then shows "Starting dracut pre-mount hook..." and "Finished dracut pre-mount hook...". Next, it shows "Starting File System Check on /dev/mapper/cs_localhost--ks9-root..." and "Finished File System Check on /dev/mapper/cs_localhost--ks9-root...". It then shows "Mounting /sysroot..." and "Mounted /sysroot...". It then shows "Reached target Initrd Root File System." and "Starting Mountpoints Configured in the Real Root...". It then shows "Finished Mountpoints Configured in the Real Root." and "Reached target Initrd File Systems." and "Reached target Initrd Default Target." and "Starting dracut pre-pivot and cleanup hook...". It then shows "6.9375541 dracut-pre-pivot[6751]: Warning: Break before switch_root" and "Starting Dracut Emergency Shell...". It then shows "Generating "/run/initramfs/rdsosreport.txt"". It then shows "Entering emergency mode. Exit the shell to continue. Type "journalctl" to view system logs. You might want to save "/run/initramfs/rdsosreport.txt" to a USB stick or /boot after mounting them and attach it to a bug report." It then shows "switch_root:/# mount -o remount,rw /sysroot" and "switch_root:/# chroot /sysroot" and "sh-5.1# passwd root" and "Changing password for user root." and "New password:" and "BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic" and "Retype new password:" and "passwd: all authentication tokens updated successfully." and "sh-5.1# touch /.autorelabel" and "sh-5.1#".

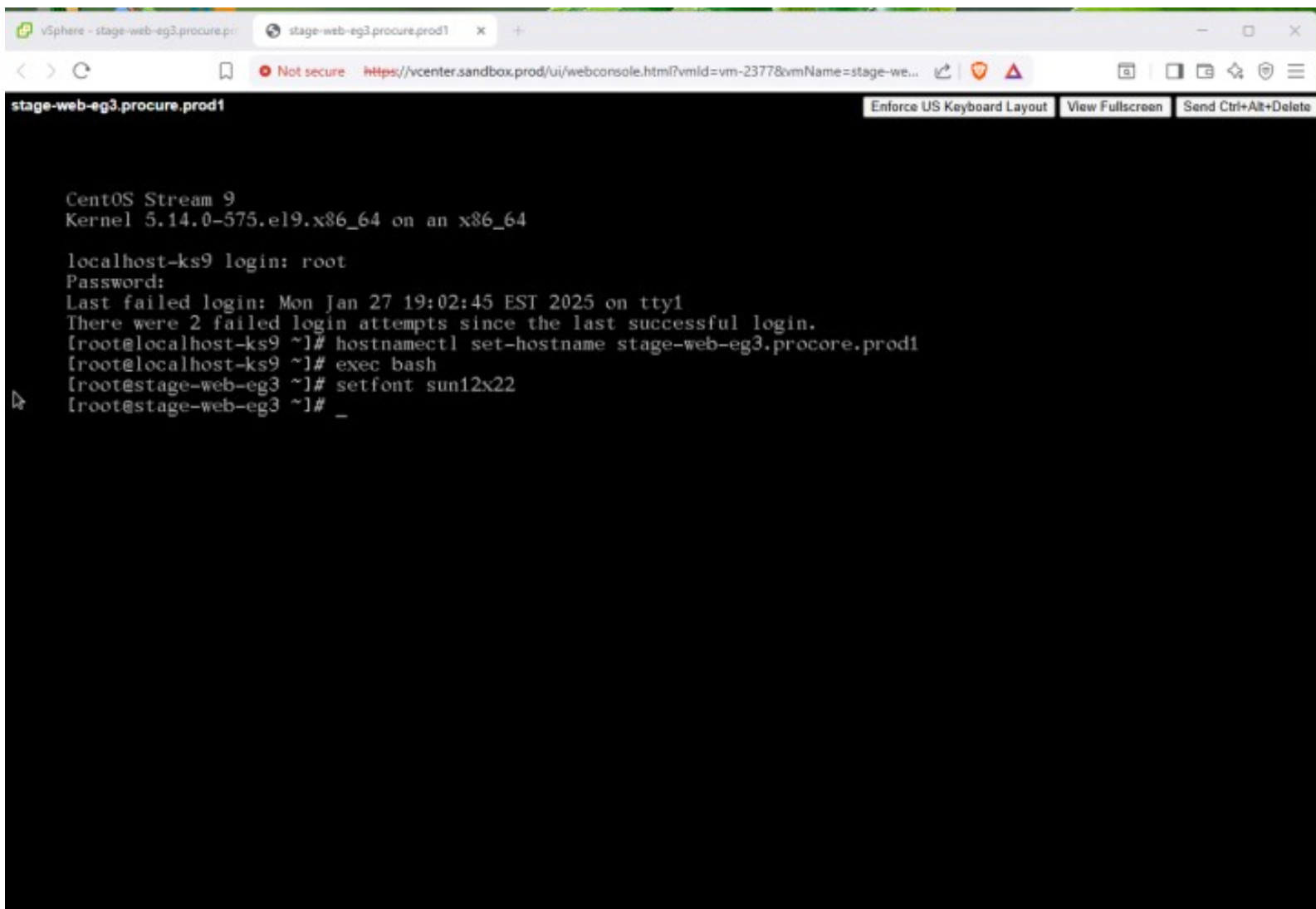
```
[ OK ] Reached target Local File Systems.
[ OK ] Reached target Preparation for Remote File Systems.
[ OK ] Reached target Remote Encrypted Volumes.
[ OK ] Reached target Remote File Systems.
[ OK ] Reached target System Initialization.
[ OK ] Reached target Basic System.
Starting dracut pre-mount hook...
[ OK ] Finished dracut pre-mount hook.
Starting File System Check on /dev/mapper/cs_localhost--ks9-root...
[ OK ] Finished File System Check on /dev/mapper/cs_localhost--ks9-root.
Mounting /sysroot...
6.7628531 SGI XFS with ACLs, security attributes, scrub, quota, no debug enabled
6.7699081 XFS (dn-0): Mounting UFS Filesystem ba559e19-4c66-4631-b285-493b0f986b90
6.8206421 XFS (dn-0): Ending clean mount
[ OK ] Mounted /sysroot.
[ OK ] Reached target Initrd Root File System.
Starting Mountpoints Configured in the Real Root...
[ OK ] Finished Mountpoints Configured in the Real Root.
[ OK ] Reached target Initrd File Systems.
[ OK ] Reached target Initrd Default Target.
Starting dracut pre-pivot and cleanup hook...
6.9375541 dracut-pre-pivot[6751]: Warning: Break before switch_root
Starting Dracut Emergency Shell...

Generating "/run/initramfs/rdsosreport.txt"

Entering emergency mode. Exit the shell to continue.
Type "journalctl" to view system logs.
You might want to save "/run/initramfs/rdsosreport.txt" to a USB stick or /boot
after mounting them and attach it to a bug report.

switch_root:/# mount -o remount,rw /sysroot
switch_root:/# chroot /sysroot
sh-5.1# passwd root
Changing password for user root.
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic
Retype new password:
passwd: all authentication tokens updated successfully.
sh-5.1# touch /.autorelabel
sh-5.1#
```


Logs in as root on the CentOS Stream 9 system, updates the hostname to the standardized server name, and applies console font settings to complete initial post-install configuration.



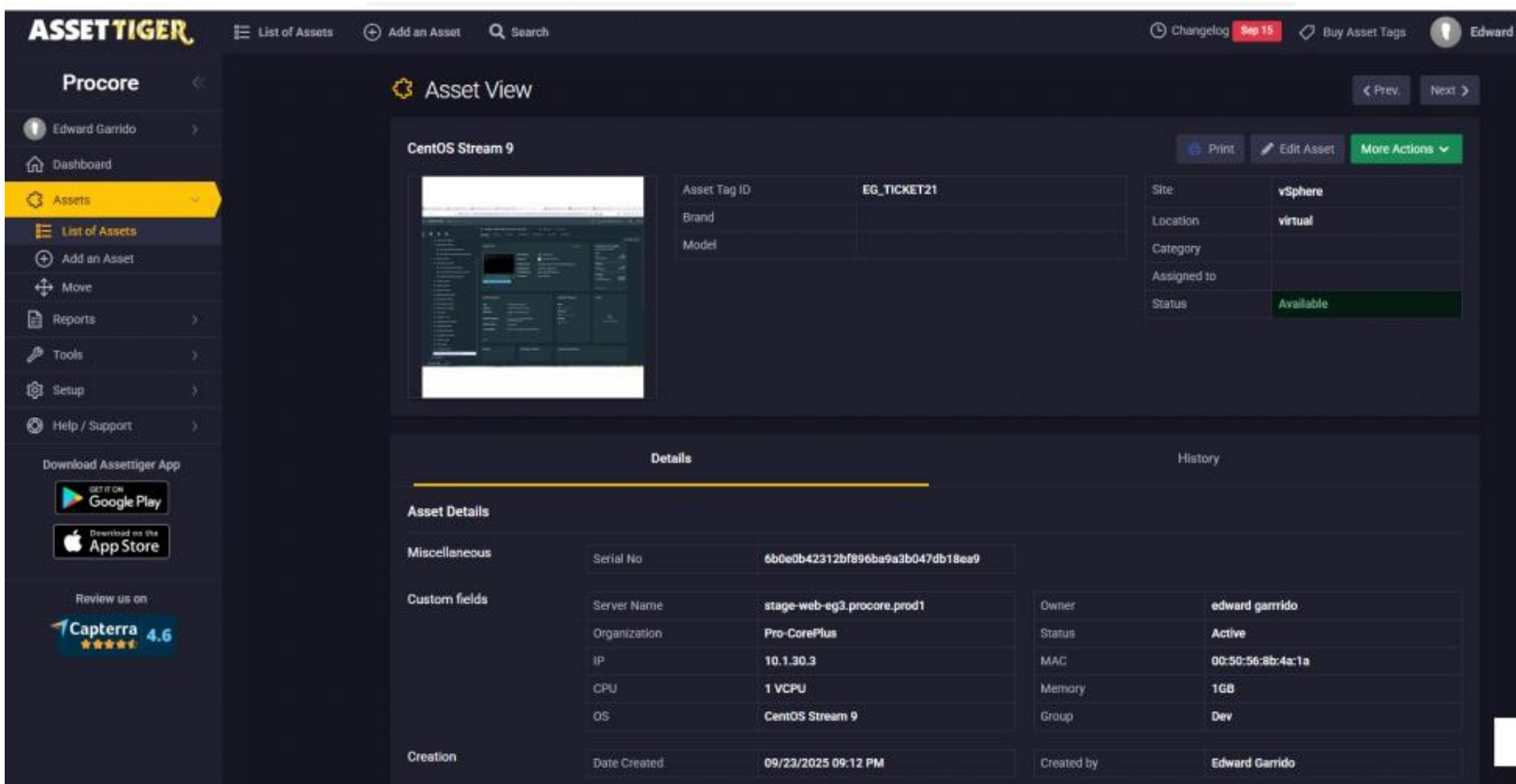
The screenshot shows a web browser window with a single tab titled "stage-web-eg3.procure.prod1". The address bar shows a URL starting with "https://vcenter.sandbox.prod/ui/webconsole.html?". The main content area displays a terminal window for "stage-web-eg3.procure.prod1". The terminal output shows the following sequence of events:

```
CentOS Stream 9
Kernel 5.14.0-575.el9.x86_64 on an x86_64

localhost-ks9 login: root
Password:
Last failed login: Mon Jan 27 19:02:45 EST 2025 on tty1
There were 2 failed login attempts since the last successful login.
[root@localhost-ks9 ~]# hostnamectl set-hostname stage-web-eg3.procure.prod1
[root@localhost-ks9 ~]# exec bash
[root@stage-web-eg3 ~]# setfont sun12x22
[root@stage-web-eg3 ~]# _
```

At the bottom of the terminal window, there are three buttons: "Enforce US Keyboard Layout", "View Fullscreen", and "Send Ctrl+Alt+Delete".

Confirms the AssetTiger record reflects the finalized CentOS Stream 9 virtual machine, validating updated hostname, IP address, hardware resources, ownership, and active status for accurate asset inventory tracking.



Selects Change compute resource only to migrate the virtual machine to a different ESXi host while keeping its existing storage unchanged.

≡ Migrate | stage-web-eg3.procure.prod1

Select a migration type

VM origin ⓘ

Change the virtual machines' compute resource, storage, or both.

☒ Change compute resource only

Migrate the virtual machines to another host or cluster.

☐ Change storage only

Migrate the virtual machines' storage to a compatible datastore or datastore cluster.

☐ Change both compute resource and storage

Migrate the virtual machines to a specific host or cluster and their storage to a specific datastore or datastore cluster.

☐ Cross vCenter Server export

Migrate the virtual machines to a vCenter Server not linked to the current SSO domain.

CANCEL

BACK

NEXT

Selects the destination cluster or host as the new compute resource for the virtual machine migration, confirming compatibility before proceeding.

≡ Migrate | stage-web-eg3.procure.prod1

Select a compute resource

VM origin ⓘ

Select a cluster, host, vApp or resource pool to run the virtual machines.

Hosts

Clusters

Resource Pools

vApps

Filter

Name	CPU Res...	CPU Limit...	CPU Alo...	CPU Shar...	CPU Shar...	Memory ...
egamido-CLUSTER	0	Unlimited	Expandable	Normal	0	0
egtron-cluster	0	Unlimited	Expandable	Normal	0	0

21 items

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

Verifies the destination network mapping for the virtual machine during migration, ensuring the network adapter remains connected to the correct VLAN with successful compatibility checks.

≡

Migrate | stage-web-eg3.procure.prod1

×

Migrate VM networking by selecting a new destination network for all VM network adapters attached to the same source network.

Source Network	Used By	Destination Network
YT-Intran-VLAN	1 VMs / 1 Network adapters	YT-Intran-VLAN

YT-Intran-VLAN is in use at:

VM	Network Adapter	Network
stage-web-eg3.procure.prod1	Network adapter 1	YT-Intran-VLAN

ADVANCED >>>

Compatibility

✔ Compatibility checks succeeded.

CANCEL

BACK

NEXT

Selects a high-priority vMotion setting to prioritize CPU resources during the virtual machine migration, helping ensure faster and smoother completion of the move.

≡ Migrate | stage-web-eg3.procure.prod1

Select vMotion priority

VM origin

Protect the performance of your running virtual machines by prioritizing the allocation of CPU resources.

☒ Schedule vMotion with high priority (recommended)

vMotion receives higher CPU scheduling preference relative to normal priority migrations. vMotion might complete more quickly.

☐ Schedule normal vMotion

vMotion receives lower CPU scheduling preference relative to high priority migrations. You can extend vMotion duration.

CANCEL

BACK

NEXT

Reviews and confirms the vMotion migration details—including target host, resource pool, priority, and network settings—before finalizing and starting the virtual machine migration.

≡ Migrate | stage-web-eg3.procure.prod1

Ready to complete

VM origin ⓘ

Verify that the information is correct and click Finish to start the migration.

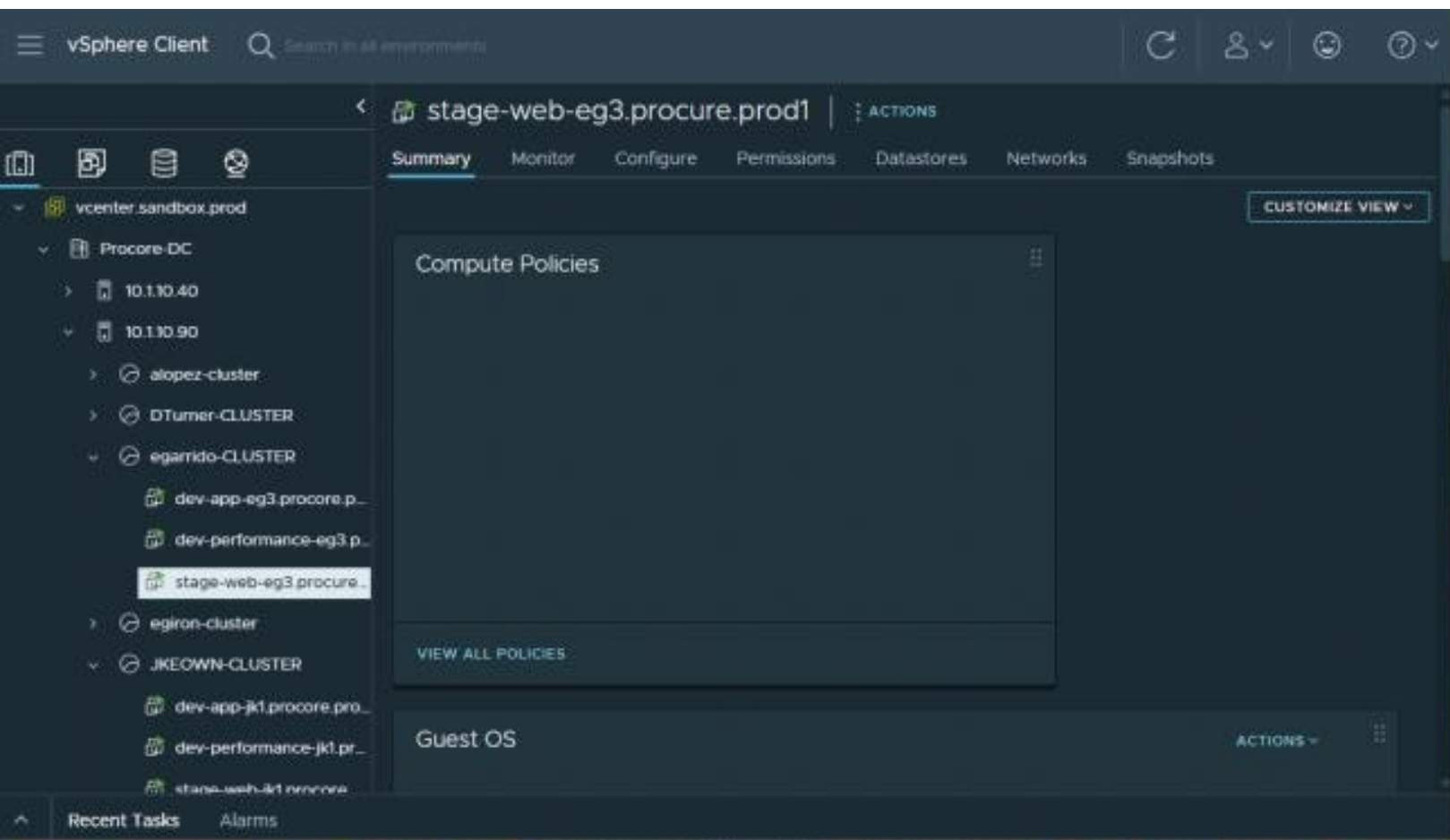
Migration Type	Change compute resource. Leave VM on the original storage
Virtual Machine	stage-web-eg3.procure.prod1
Host	10.110.90
Resource Pool	egarrido-CLUSTER
vMotion Priority	High
Networks	No network reassignments

CANCEL

BACK

FINISH

Confirms the virtual machine is present and accessible in vSphere after migration, indicating successful placement on the target host and readiness for normal operations.



Summary:

A virtual machine was deployed and configured in a VMware vSphere environment, including OS installation with CentOS Stream 9, post-install system setup, asset documentation, and a compute-only vMotion migration. The workflow demonstrates standardized VM provisioning, Linux system administration, and successful live migration with minimal impact.