



Micro Focus Technical Insight Series

ZENworks Migrating to the Virtual Appliance

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Agenda

- Why ZENworks Appliance ?
- What's in ZENworks Appliance
- How to migrate

Why ZENworks Appliance



Why ZENworks Appliance?



Discover a Smarter Approach to Device Management



Lower your Deployment Costs



Decrease your
-Implementation Time
-Upgrade Times



Improve Reliability and Reduce Support Costs

What's ZENworks Appliance



What's ZENworks Appliance

ZENworks Appliance

- Key Features
- Deployment & Configuration
- Migration

Appliance Administration

- File Explorer
- Terminal
- Enable / Disable Logging
- Log Viewer
- Monitor state of Appliance
- Tune your Server Settings

Key Features



Web-based Appliance
Configuration



Manage & Monitor
your appliance using a
set of web-based tools



Significantly reduce
your deployment &
configuration time



Easy movement to
newer versions of
ZENworks



Decrease your IT Costs.
No separate OS
License needed

ZENworks Appliance Administration

- Appliance OS
 - Restart/Reboot/Shutdown
 - Services
- Appliance Configuration
 - root vs zenadmin
 - System Configuration
 - Monitoring
- ZENworks Administration
 - Configuration

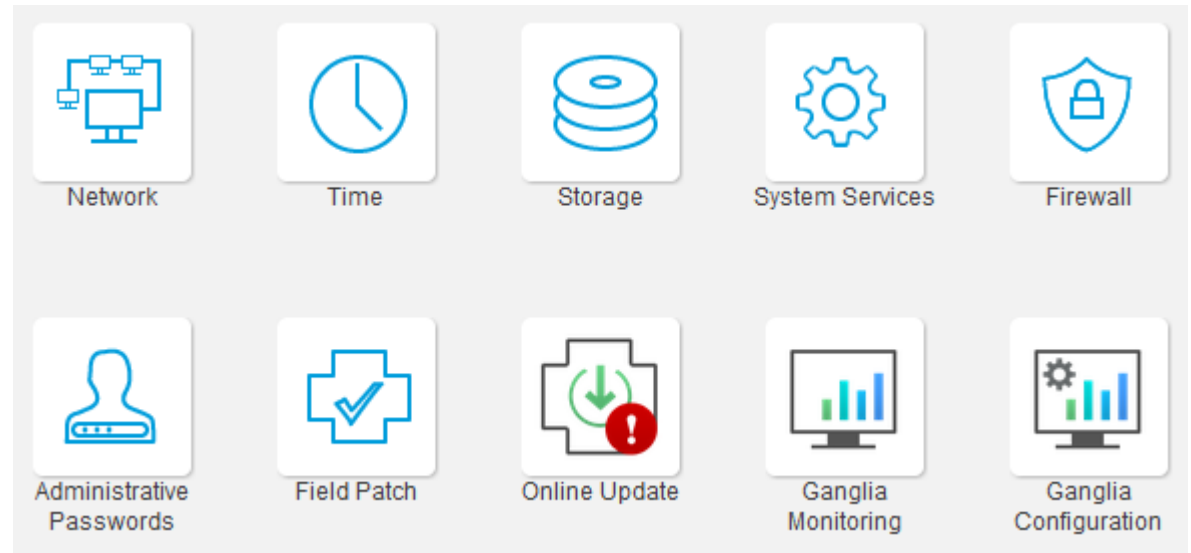
The screenshot displays the ZENworks Appliance Administration web interface. At the top, a blue header bar contains the text "ZENworks® Appliance Version 20.2.0" on the left, "Zone Name : DAZONE" in the center, and "root | Logout" with a user icon on the right. Below the header, the page is titled "Appliance Configuration" and includes "Reboot" and "Shutdown" buttons. The main content area is divided into two sections: "Appliance Configuration" and "ZENworks".

The "Appliance Configuration" section features a grid of icons for various system settings: Network, Time, Storage, System Services, Firewall, Administrative Passwords, Field Patch, Online Update (with a red warning icon), Ganglia Monitoring, and Ganglia Configuration.

The "ZENworks" section features a grid of icons for ZENworks-related tasks: ZENworks Configuration, Terminal & File Explorer, Logs, Log Configuration, and ZENworks Control Center. A "Restart Services" button is located at the top right of this section.

ZENworks Appliance OS Administration

- Network
- Time
- Storage
- System Services
- Firewall
- Administrative Passwords
- Field Patch
- Online Update
- Ganglia Monitoring
- Ganglia Configuration





Online Update

- Streamlined Updates
 - Security Patches
 - Updated Features
 - Minor Updates
- Scheduling

ZENworks Appliance root

Online Update (Automatic Update Schedule: Manual) ?

Update service: nu_novell_com

Schedule ▾ Update Now View Info Register Refresh

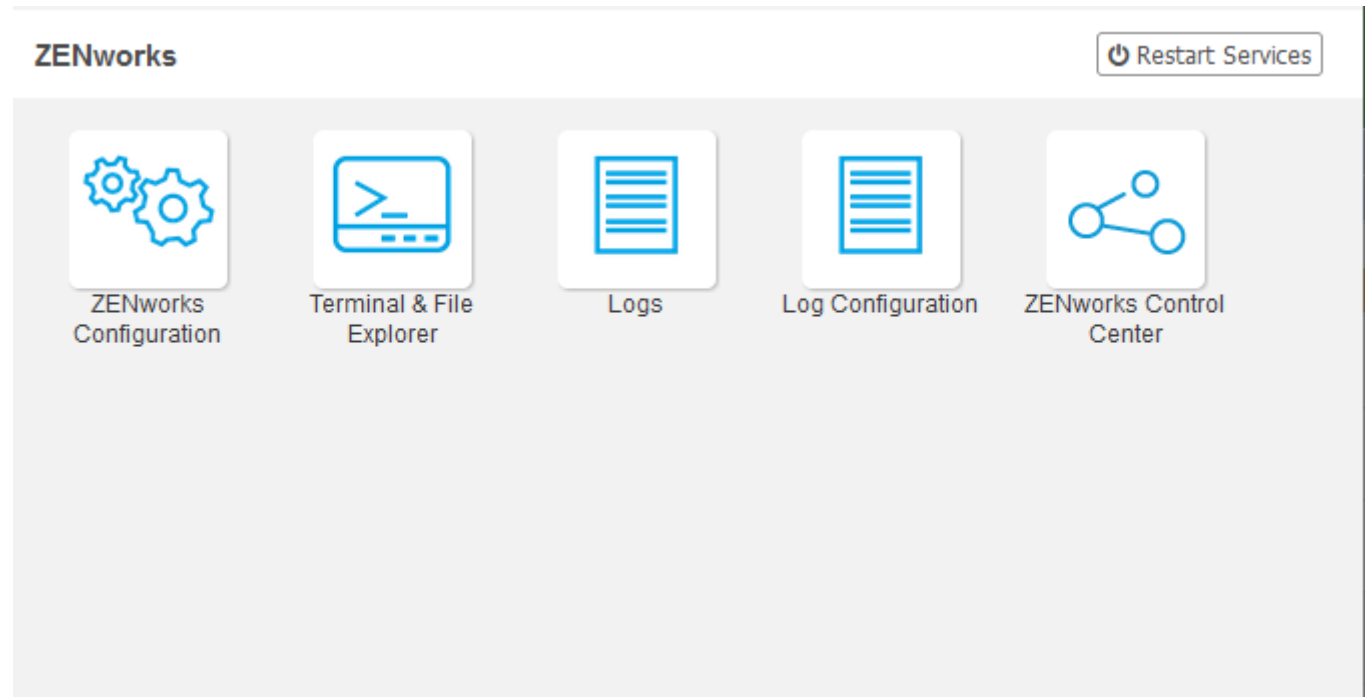
Needed Patches ▾ List all patches scheduled for installation by the next manual or automatic update.

Name	Summary	Version	Category	Restart required	Interactive	
SUSE-SLE-SERVER-12-SP5-2022-828	Security update for glib2	1	security	No	No	▲
SUSE-SLE-SERVER-12-SP5-2022-842	Security update for expat	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-871	Security update for java-1_8_0-openjdk	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-857	Security update for openssl-1_0_0	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-1140	Security update for python	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-928	Security update for apache2	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-908	Security update for bind	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-1023	Security update for zlib	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-1113	Security update for mozilla-nss	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-1196	Security update for the Linux Kernel	1	security	Yes	Yes	
SUSE-SLE-SERVER-12-SP5-2022-1160	Security update for xz	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-1272	Security update for gzip	1	security	No	No	
SUSE-SLE-SERVER-12-SP5-2022-1308	Security update for libxml2	1	security	No	No	
SUSE-SLE-SDK-12-SP5-2022-1429	Security update for cifs-utils	1	security	No	No	
ZENworks-Product-SLES12-SP5-05-2...	Product update in May 2022 for ZCM Appliance 2020 up...	1	security	No	No	▼

Close

ZENworks Configuration Administration

- ZENworks Configuration
- Terminal & File Explorer
- Logs
- Log Configuration
- ZENworks Control Center



Terminal

- Appliance VM Terminal
 - ZMAN commands
 - ZAC commands
 - microfocus-zenworks-configure commands
 - Any other Linux Commands

```
The system is ready for appliance configuration.
```

```
To configure the appliance:
```

1. At your management workstation, open a browser and enter one of the following URLs:

```
https://DAZoneP1.digitalair.com:9443
```

```
https://192.168.1.150:9443
```

2. Log in as zenadmin with the password that you set.

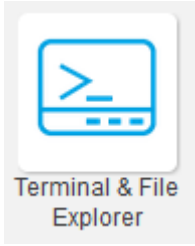
```
IMPORTANT: Do not use the terminal prompt before consulting the documentation.  
Appliance administration requires appliance-specific tools.  
Using standard tools can result in service disruption or failure.
```

```
DAZoneP1 login: root
```

```
Password:
```

```
Last login: Sat Jul 9 16:07:04 from 192.168.1.150
```

```
DAZoneP1:~ # _
```



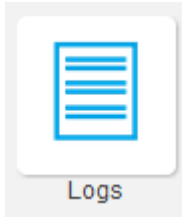
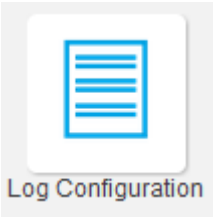
Terminal & File Explorer

Web Based Terminal File Explorer

- Explore appliance file system
- Create new files or folders
- Delete files and folders
- Cut/Copy/Paste files/folders
- Rename files and folders
- Upload to folder
- Download files and folders

The screenshot shows the ZENworks Appliance web interface. At the top, there's a blue header with "ZENworks Appliance" and "root | Home". Below the header, there are buttons for "New Terminal" and "Hide File Explorer". The main area is divided into two panes. The left pane is a sidebar showing a tree view of the file system with folders like bin, etc, home, lib, lib64, lost+found, mnt, opt, root, sbin, selinux, srv, studio, tmp, usr, var, vastorage, and vatemp. The right pane is a file explorer window showing a table of files and folders. The table has columns for Name, Type, Size, and Date Modified. Below the file explorer, there is a terminal window titled "Terminal 1" with a black background and white text. The terminal shows the last login time and the prompt "DAZoneP1:~ #".

Name	Type	Size	Date Modified
bin	File folder		4/20/22 11:05:43 PM
etc	File folder		7/8/22 12:13:06 PM
home	File folder		9/14/21 8:46:46 AM
lib	File folder		4/20/22 11:02:15 PM
lib64	File folder		4/20/22 11:03:02 PM
lost+found	File folder		8/1/21 4:59:17 AM
mnt	File folder		6/27/17 2:59:45 AM
opt	File folder		9/14/21 8:40:41 AM
root	File folder		9/14/21 8:46:46 AM
sbin	File folder		
selinux	File folder		
srv	File folder		
studio	File folder		
tmp	File folder		
usr	File folder		
var	File folder		
vastorage	File folder		
vatemp	File folder		
.rnd	File		
config.bootoption	File		
config.partids	File		
swapfile	File		



Logging

- Configure Logs
 - Basic
 - Advanced mode
- Restart Services
- View the logs

The screenshot displays the ZENworks Appliance web interface for Log Configuration. It is divided into three main sections:

- Configuration Panel:** Shows 'ZENworks Log Configuration' with tabs for 'Basic' and 'Advanced'. It includes buttons for 'Save', 'Refresh', and 'Reset all values to defaults'. A 'Restart Services' button is visible in the top right.
- Log Configuration Files Panel:** A file browser view showing a tree structure of log configuration files. The tree includes folders for ZENServer, ZENLoader, ZMAN, CASA, Inventory, Imaging, Remote Management, and Miscellaneous. The 'ZENSER' folder is expanded, showing 'Configure logging for ZENSER process.' and 'ZENLoader'.
- File System View:** A view of the file system at the path `/var/opt/microfocus/log`. It shows a table of files and folders:

Name	Type	Size	Date
appliance	File folder		9/1
OS	File folder		7/8
zenworks	File folder		7/9



ZENworks Tuning

- Configure settings
 - Basic mode
 - One click to Enable/Disable specific configuration
 - Advanced mode
 - Config file is shown/edited
- Restart services related to the Server configuration update

The screenshot displays the ZENworks Appliance configuration interface. The top navigation bar includes 'ZENworks Appliance' and 'root | Home | Lc'. Below this, the 'ZENworks Configuration' section is visible, with tabs for 'Summary', 'Basic', and 'Advanced'. A 'Restart Services' button is present in the top right corner. The main content area is titled 'Server Configuration Files' and contains a list of configuration categories with brief descriptions:

- Database Settings: Configure Database Settings.
- ZENServer: Configure ZENserver application deployed in tomcat.
- CASA: Configure CASA.
- Datamodel: Configure ZENworks datamodel.
- ZENLoader: Configure ZENloader components.
- ZMAN: Configure ZMAN.
- Miscellaneous: Contains most configuration files.

At the bottom of the interface, there are two input fields for 'C3P0 Helper Thread Count', both containing the value '5'. Below these fields is a table showing disk usage information:

File system	Size	Used	Avail	Use%	Mounted on
devtmpfs	7.9 GB	0	7.9 GB	0%	/dev

Install vs Upgrades vs Migration vs Move



Appliance Requirements

Verify Migration Process in [ZCM documentation](#) for your environment

- Install Primary Server
 - Into Existing Zone
 - Creating New Zone
- Upgrade Zone / Primary Server
 - Upgrading from ZCM 2020 U1 > ZCM 2020 U2
- Migrate a Primary Server
 - Decommission
 - Same Identity
- Move to new Primary Server
 - New or same Identity
 - Network information

Deploy & Configure Appliance

Deployment of Appliance

- Deploy Virtual Machine File
- Attach a disk to store ZENworks Data
- Configure Network & Appliance User

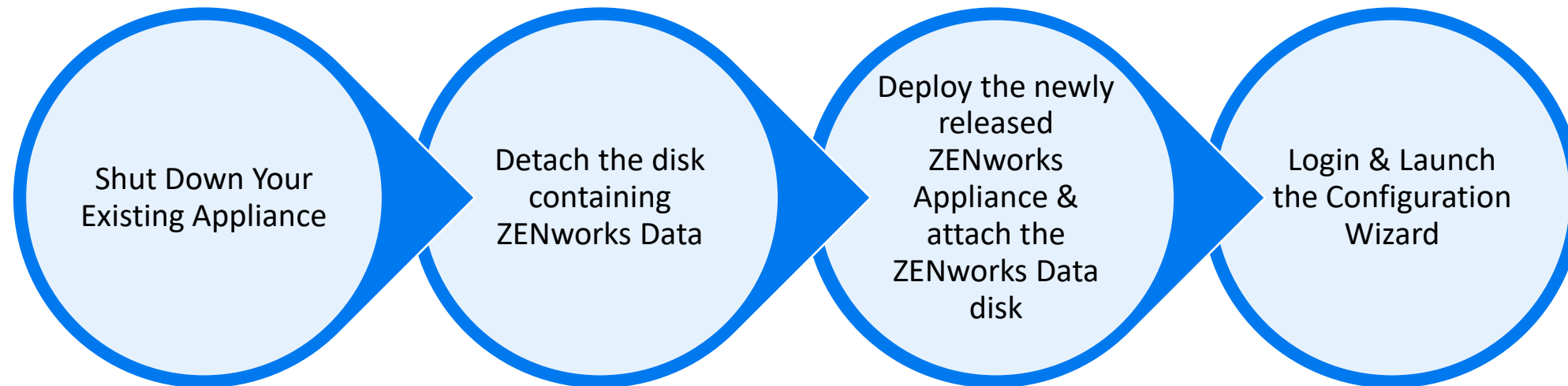
Configure ZENworks

- Log into ZENworks Appliance
- Configure Database
- Configure Certificates

Take a day off !

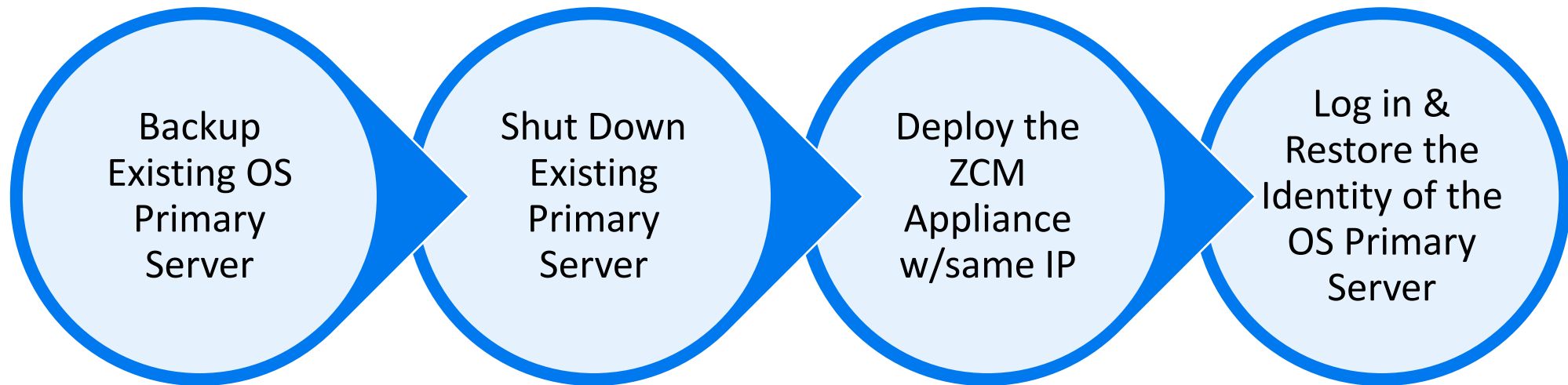
Upgrade to Major Version of ZENworks

The Upgrade to any major version of ZENworks got super easy with Appliances-Simplified



Upgrade ZCM Primary Installed on OS

Migrate the ZCM Primary Identity Installed on an OS to a ZCM Appliance Primary Server-Simplified



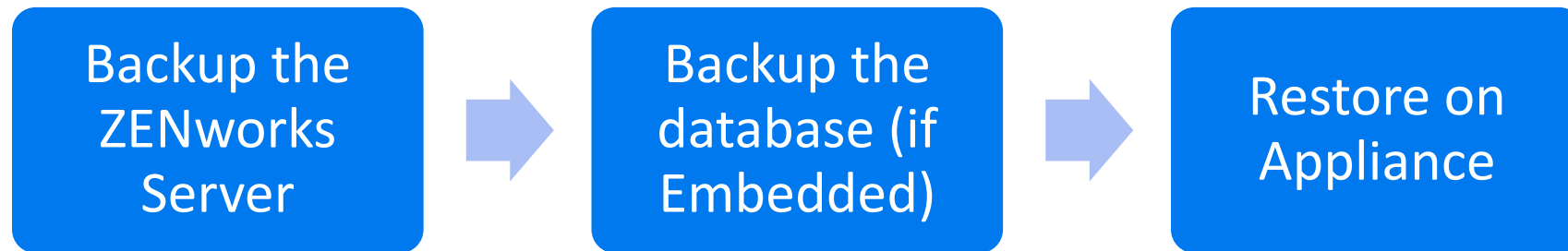
How to Migrate



How to Migrate ?

Migration made easy with latest ZENworks 2020 Update 2

- Now you can migrate easily from an existing Windows or a Linux Server to appliance by following these easy steps



- Details in the [ZENworks Primary Server And Satellite Reference Guide](#)

Appliance Requirements

Verify Migration Process in [ZCM documentation](#) for your environment

- Pick Hyper Visor Platform
- Load Virtual Machine
- Add a second Disk (VAStorage)
- Power up
 - Root/ZENadmin Accounts
 - Network information
- Log into Appliance Console
 - Terminal (CLI)
 - URL – Port 9443

Standard Server Backups

- Server
- Database (if database exists on Primary Server)

ZCM Migration-Backup

Verify Migration Process in [ZCM documentation](#) for your environment

Windows/Linux Primary Server

- Run backup command

Linux OS Primary:

/opt/microfocus/zenworks/bin/zen-backup-restore.bat mode=backup file=/<path>/file.zip migration=true

Windows OS Primary:

/opt/microfocus/zenworks/bin/zen-backup-restore.sh mode=backup file=/<path>/file.zip migration=true

- ZCC Administrator
- Passphrase
- Power off

ZCM Migration-Restore

Verify Migration Process in [ZCM documentation](#) for your environment

Appliance Primary Server

- Stop Services
systemctl stop microfocus-zenworks-zenserver.service
systemctl stop microfocus-zenworks-zenloader.service
- Run Restore Command
New Appliance Primary:
/opt/microfocus/zenworks/bin/zen-backup-restore.sh mode=restore file=/<path>/file.zip
- ZCC Administrator
- Passphrase
- Script *runActions.sh*
- Restart Appliance

Identity Transferred to the
Appliance Primary Server!!

```
Terminal 1
kh-win19-ps1:/tmp/restore # cat runActions.sh
microfocus-zenworks-configure -c AddRole -DdestGuid=78aee302c75149d906b5a51a8eb1
4a2b -Drole=ApplianceServer
microfocus-zenworks-configure -c MergeTruststore -Z
microfocus-zenworks-configure -c UpdateTrustStorePasswordConfigureAction
microfocus-zenworks-configure -c UnifyTrustStoreForApplianceConfigureAction
microfocus-zenworks-configure -c EnableJMX
microfocus-zenworks-configure -c ZenProbe
microfocus-zenworks-configure -c GenerateOSPPProperties
microfocus-zenworks-configure -c CreateExtractorPacks -Z
kh-win19-ps1:/tmp/restore # ./runActions.sh
```

Demonstration





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