

Evidencia Control 57

Esquemas de alta disponibilidad implementa para las actividades relacionadas con el monedero electrónico

1. Redundancia en centro de datos

Centro de datos local

La imagen muestra captura de pantalla del vcenter del centro de datos local donde se aprecian cinco hosts

The screenshot displays the vSphere Client interface for the 'Enerser-NGX' environment. The top navigation bar includes options like 'Summary', 'Monitor', 'Configure', 'Permissions', 'Hosts & Clusters', 'VMs', 'Datastores', 'Networks', and 'Updates'. The left sidebar shows the environment hierarchy, including 'vcenterngx.enerser.com.mx' and 'Enerser-NGX'. The main content area shows the 'Summary' tab with a list of hosts and their associated virtual machines, clusters, networks, and datastores. A terminal window is open, displaying network configuration details for Ethernet and Wi-Fi adapters. A calendar widget on the right indicates the date is Wednesday, May 14, 2025.

Summary Metrics:

- Hosts: 3
- Virtual Machines: 91
- Clusters: 0
- Networks: 4
- Datastores: 11

Network Configuration (Terminal):

```
Adaptador de Ethernet Ethernet 4:  
Estado de los medios. . . . . : medios desconectados  
Sufijo DNS específico para la conexión. . . : gasmartcorp.local  
  
Adaptador de LAN inalámbrica Wi-Fi:  
Sufijo DNS específico para la conexión. . . : gasmartcorp.local  
Dirección IPv4. . . . . : 10.255.238.239  
Máscara de subred. . . . . : 255.255.254.0  
Puerta de enlace predeterminada. . . . . : 10.255.238.1  
  
Adaptador de Ethernet Bluetooth Network Connection:  
Estado de los medios. . . . . : medios desconectados
```

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Centro de datos Remoto

La imagen muestra captura de pantalla de la consola de Vcenter del centro de datos remoto donde se aprecian 3 host

The screenshot displays the vSphere Client interface for a virtual machine named 'SRV-XIGA-APP_replica'. The interface is in Spanish and shows the 'Summary' tab. The virtual machine is powered off. A command prompt window is open, showing the Windows IP configuration for the Ethernet adapter Ethernet0:

```
Windows IP Configuration

Ethernet adapter Ethernet0:

    Connection-specific DNS Suffix  . : 
    IPv4 Address. . . . . : 10.30.1.5
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.30.1.2
```

The command prompt also shows the command 'C:\>' and the output of the 'ipconfig' command. The vSphere Client interface includes a left sidebar with a tree view of the vSphere environment, a top navigation bar with tabs for Summary, Monitor, Configure, Permissions, Datastores, Networks, Snapshots, and Updates, and a right sidebar with a 'Switch to New View' button and a 'CPU Usage' section showing 0 Hz. A calendar widget is visible in the bottom right corner, showing the date 'jueves, 22 de mayo de 2025' and the time '01:00:35 p.m.'.

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2. Proveedores de Internet redundante en

La imagen muestra captura de pantalla del firewall Fortigate 300E del centro de datos local donde se aprecian dos proveedores de internet en las interfaces WAN

- FloNetwork
- TotalPlay

The screenshot displays the FortiGate 300E web interface. The left sidebar shows the navigation menu with 'Network' and 'Interfaces' selected. The main content area shows a table of interfaces:

Name	Type	Members	IP/Netmask	Transceiver(s)	Administrative Access	DHCP Clients
s2	Physical Interface		One-Arm Sniffer			
vw1	Physical Interface		0.0.0.0/0.0.0.0			
vw2	Physical Interface		0.0.0.0/0.0.0.0			
W1_FloNet	Physical Interface		201.174.115.7/255.255.25...		PING	
W1_TotalPla	Physical Interface		107.190.246.219/255.255...			

A terminal window is open, showing the configuration for a wireless LAN adapter Wi-Fi:

```
Connection-specific DNS Suffix : gasmartcorp.local
IPv4 Address . . . . . : 10.255.230.241
Subnet Mask . . . . . : 255.255.254.0
Default Gateway . . . . . : 10.255.230.1
```

The terminal also shows the status of the Ethernet adapter Bluetooth Network Connection:

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix :
```

The bottom of the screen shows the FortiGate logo, version 7.4.4, and a security rating of 'Security Rating Issues'. The Windows taskbar at the bottom shows the date and time as 11:31 AM on 5/14/2023.

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La imagen muestra captura de pantalla del firewall Fortigate 200F del centro de datos Remoto donde se aprecian dos proveedores de internet en las interfaces WAN

- FloNetwork
- NGX Network

The screenshot displays the FortiGate 200F-NGX web interface. The left sidebar shows the navigation menu with 'Network' and 'Interfaces' highlighted. The main content area shows a table of physical interfaces. Two interfaces are highlighted in blue: 'FloNetworks (port1)' and 'NGX_Network (port17)'. A terminal window is open in the foreground, showing network configuration details for a wireless LAN adapter and an ethernet adapter. A calendar widget is visible on the right side of the screen.

Name	Type	Members	IP/Netmask	Transceiver(s)	Administrative Access	DHCP
FloNetworks (port1)	Physical Interface		201.174.13.154/255.255.255.248		PING HTTPS HTTP	
ha	Physical Interface		0.0.0.0/0.0.0.0			
mgmt	Physical Interface		192.168.1.99/255.255.255.0		PING HTTPS SSH	
NGX_Network (port17)	Physical Interface		45.185.241.66/255.255.255.248	FS SFP-GE-BX	PING HTTPS HTTP	

```
Simbolo del sistema
Wireless LAN adapter Wi-Fi:
Connection-specific DNS Suffix . : gasmartcorp.local
IPv4 Address . . . . . : 10.255.230.241
Subnet Mask . . . . . : 255.255.254.0
Default Gateway . . . . . : 10.255.230.1

Ethernet adapter Bluetooth Network Connection:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :

C:\Users\jcuevas>
```

Revised

4. Servidores Redundantes

La imagen muestra captura de pantalla de la consola de Vcenter del centro de datos local y remoto donde se aprecian 5 y 3 hosts respectivamente, configurados en un clúster lo que permite prescindir de uno de ellos y seguir operando.

The screenshot displays the vSphere Client interface for a cluster named 'Enserer-NGX'. The 'Summary' tab is active, showing the following statistics:

- Hosts: 3
- Virtual Machines: 91
- Clusters: 0
- Networks: 4
- Datastores: 11

A 'Símbolo del sistema' (System Symbol) window is open, displaying network configuration details for 'Adaptador de Ethernet Ethernet 4' and 'Adaptador de LAN inalámbrica Wi-Fi'. The configuration for Ethernet 4 includes:

- Estado de los medios: medios desconectados
- Sufijo DNS específico para la conexión: gasmartcorp.local
- Sufijo DNS específico para la conexión: gasmartcorp.local
- Dirección IPv4: 10.255.230.239
- Máscara de subred: 255.255.254.0
- Puerta de enlace predeterminada: 10.255.230.1

The 'Adaptador de Ethernet Bluetooth Network Connection' also shows 'Estado de los medios: medios desconectados'. On the right side, a 'Notificaciones' (Notifications) panel indicates 'No hay nuevas notificaciones'. Below it, a calendar for May 2025 shows the date 'miércoles, 14 de mayo' (Wednesday, May 14, 2025). The bottom of the screen shows the Windows taskbar with various application icons and the system clock displaying '01:20 p.m. 14/05/2025'.

Real

5. Almacenamiento Redundante

Las imágenes muestran capturas de pantalla del sistema de almacenamiento HPE MSA 2060 donde se aprecian múltiples discos redundantes en arreglos Raid 6 y controladores redundantes

