


INFORME TÉCNICO HOMECENTER

PROCESO:Sena-001-Tecnico

6. Descripción del servicio realizado	Realizado	
Se solicita realizar la réplica de la instalación de Zabbix.	SI	NO
Se solicita realizar la instalación del Agente de zabbix en windows server.	SI	NO
Se solicita replicar los permisos de administrador para proseguir con la instalación.	SI	NO
Se solicita entrar a la réplica de la máquina virtual desde el root.	SI	NO
Se solicita conocer la dirección ip del Servidor Zabbix.	SI	NO
Se solicita desde la maquina fisica entrar a la réplica del servidor zabbix por el Puerto 80 protocolo Https.	SI	NO
Se solicita entrar como administrador a zabbix desde la web y añadir la máquina virtual de windows server.	SI	NO
Se solicita hacer ping desde zabbix a la réplica de windows server para verificar su conexión.	SI	NO
Se solicita agregar nuevas gráficas para el monitoreo general del servidor replicado.	SI	NO
Se realiza el monitoreo general de los equipos.	SI	NO

7. Zabbix.

7.1. Instalación Zabbix.



Selección un idioma predeterminado del sitio: Español (Latinoamérica) Confirmar

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ZABBIX PRODUCTO SOLUCIONES SERVICIOS DE SOPORTE FORMACIÓN PARTNERS COMUNIDAD SOBRE NOSOTROS [DESCARGAR](#)

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Descarga e instalación de Zabbix

Zabbix Paquetes

Imágenes de nube Images

Imágenes Docker de Zabbix

Zabbix Appliance

Códigos Fuentes de Zabbix

Agentes Zabbix

Instalar el Appliance Zabbix

Zabbix 5.2

Zabbix 5.0 LTS

Zabbix 4.0 LTS

Versión	Lanzamiento	Fecha	Plataforma	Notas de la versión	Manual de Zabbix	Descargar
Zabbix 5.2	5.2.6	Mar 29, 2021	Installation CD/DVD (.iso)	Notas	Manual	Descargar
Zabbix 5.2	5.2.6	Mar 29, 2021	VMware (.vmm)	Notas	Manual	Descargar
Zabbix 5.2	5.2.6	Mar 29, 2021	Open virtualization format (.ovf)	Notas	Manual	Descargar
Zabbix 5.2	5.2.6	Mar 29, 2021	Microsoft Hyper-V 2012	Notas	Manual	Descargar
Zabbix 5.2	5.2.6	Mar 29, 2021	Microsoft Hyper-V 2008	Notas	Manual	Descargar

<https://www.zabbix.com/la/download>

EVIDENCIA3n3n...rar

Mostrar todo

Figura 1. Fuente. Cristian Toro y Wendy Esteban.







Versión	Lanzamiento	Fecha	Plataforma	Notas de la versión	Manual de Zabbix	Descargar
Zabbix 5.2	5.2.6	Mar 29, 2021	Installation CD/DVD (.iso)			Descargar
Zabbix 5.2	5.2.6	Mar 29, 2021	VMWare (.vmx)			Descargar
Zabbix 5.2	5.2.6	Mar 29, 2021	Open virtualization format (.ovf)			Descargar

Figura 2. Fuente. Cristian Toro y Wendy Esteban.

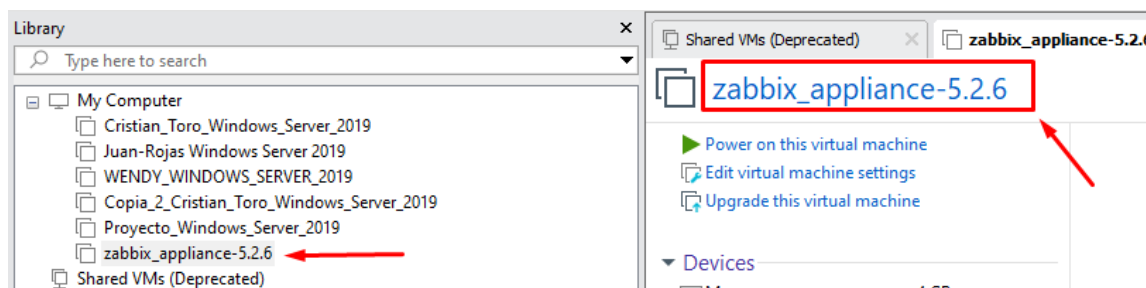


Figura 3. Fuente. Cristian Toro y Wendy Esteban.

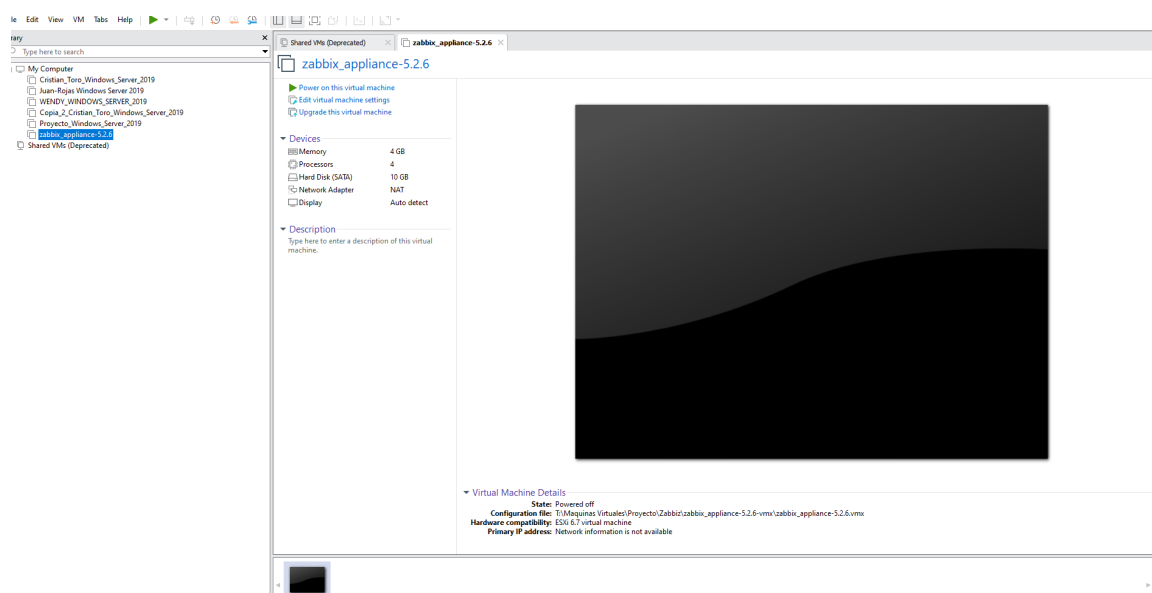


Figura 4. Fuente. Cristian Toro y Wendy Esteban.

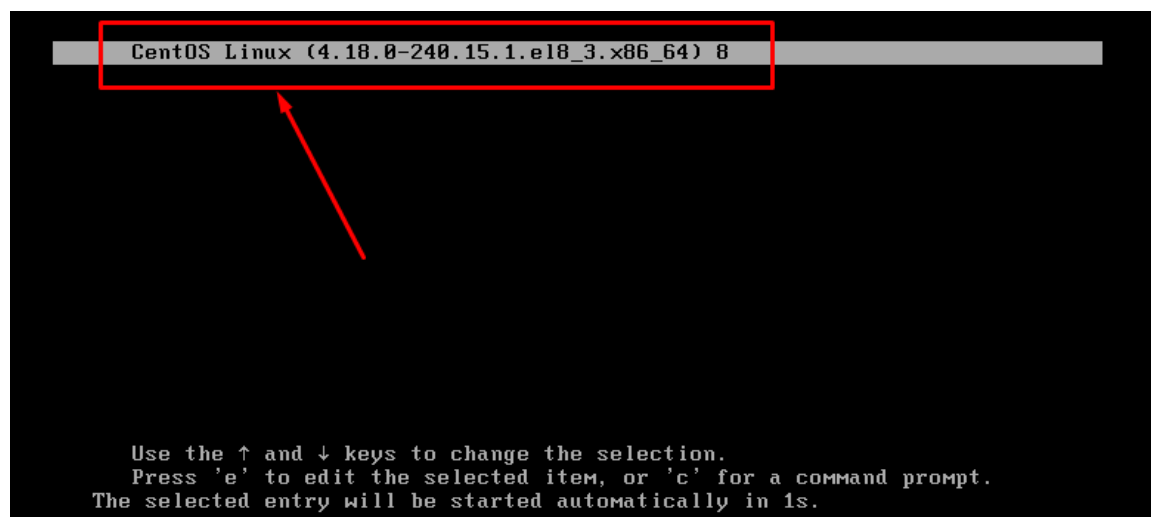


Figura 5. Fuente. Cristian Toro y Wendy Esteban.

```
Shared VMs (Deprecated) x zabbix_appliance-5.2.6 x
[ 7.768126] [drm] HP Command Queue.
[ 7.768241] [drm] Capabilities2:
[ 7.768330] [drm] Grow oTable.
[ 7.768420] [drm] IntraSurface copy.
[ 7.768522] [drm] Max GMR ids is 64
[ 7.768617] [drm] Max number of GMR pages is 65536
[ 7.768742] [drm] Max dedicated hypervisor surface memory is 0 kiB
[ 7.768896] [drm] Maximum display memory size is 262144 kiB
[ 7.769038] [drm] URAM at 0xe0000000 size is 131072 kiB
[ 7.769254] [drm] MMIO at 0xfe000000 size is 256 kiB
[ 7.769815] [TTM] Zone kernel: Available graphics memory: 2012252 KiB
[ 7.769985] [TTM] Initializing pool allocator
[ 7.770143] [TTM] Initializing DMA pool allocator
[ 7.770332] [drm] Supports vblank timestamp caching Rev 2 (21.10.2013).
[ 7.770500] [drm] No driver support for vblank timestamp query.
[ 7.770714] [drm] Screen Target Display device initialized
[ 7.770895] [drm] width 1280
[ 7.770984] [drm] height 768
[ 7.771105] [drm] bpp 32
[ 7.820136] [drm] Fifo max 0x00040000 min 0x00001000 cap 0x0000077f
[ 7.822203] [drm] Using command buffers with DMA pool.
[ 7.822372] [drm] DX: no.
[ 7.822451] [drm] Atomic: yes.
[ 7.822537] [drm] SM4_1: no.
[ 7.840995] fbcon: svgadrmfb (fb0) is primary device
[ 7.844117] Console: switching to colour frame buffer device 160x48
[ 7.878603] [drm] Initialized vmwgfx 2.17.0 20200114 for 0000:00:0f.0 on minor 0
[ 10.817241] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
[ 10.817936] e1000: eth0 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: None
[ 10.818990] IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
```

Figura 6. Fuente. Cristian Toro y Wendy Esteban.

2.1 CREDENTIALS (LOGIN:PASSWORD)

System:

▪ root:zabbix

Zabbix frontend:

▪ Admin:zabbix

Figura 7. Fuente. Cristian Toro y Wendy Esteban.

```
Shared VMs (Deprecated) x zabbix_appliance-5.2.6 x
CentOS Linux 8
Kernel 4.18.0-240.15.1.el8_3.x86_64 on an x86_64
appliance login: root
Password:
```

Figura 8. Fuente. Cristian Toro y Wendy Esteban.

```
CentOS Linux 8
Kernel 4.18.0-240.15.1.el8_3.x86_64 on an x86_64

appliance login: root
Password:
Last failed login: Mon May 10 20:45:13 UTC 2021 on tty1
There was 1 failed login attempt since the last successful login.
*****

Zabbix frontend credentials:

Username: Admin
Password: zabbix

To learn about available professional services, including technical support and training, please visit https://www.zabbix.com/services
Official Zabbix documentation available at https://www.zabbix.com/documentation/current/
Note! Do not forget to change timezone PHP variable in /etc/php-fpm.d/zabbix.conf file.

*****
[root@appliance ~]# _
```

Figura 9. Fuente. Cristian Toro y Wendy Esteban.

Para saber nuestra dirección ip escribimos “ip addr show”

```
*****
[root@appliance ~]# ip addr show
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: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:e3:8c:05 brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.12/24 brd 192.168.0.255 scope global dynamic eth0
        valid_lft 86447sec preferred_lft 86447sec
    inet6 fe80::20c:29ff:fee3:8c05/64 scope link
        valid_lft forever preferred_lft forever
[root@appliance ~]# _
```

Figura 10. Fuente. Cristian Toro y Wendy Esteban.

Para poder utilizar el comando de ifconfig escribimos “sudo su”

```
*****
[root@appliance ~]# ifocnfig
-bash: ifocnfig: command not found
[root@appliance ~]# sudo su ←
```

Figura 11. Fuente. Cristian Toro y Wendy Esteban.



Figura 11. Fuente. Cristian Toro y Wendy Esteban.

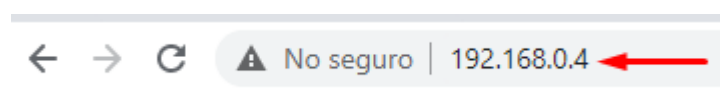



Figura 12. Fuente Cristian Toro.



Username

Password

☒ Remember me for 30 days

Figura 13. Fuente. Cristian Toro y Wendy Esteban.

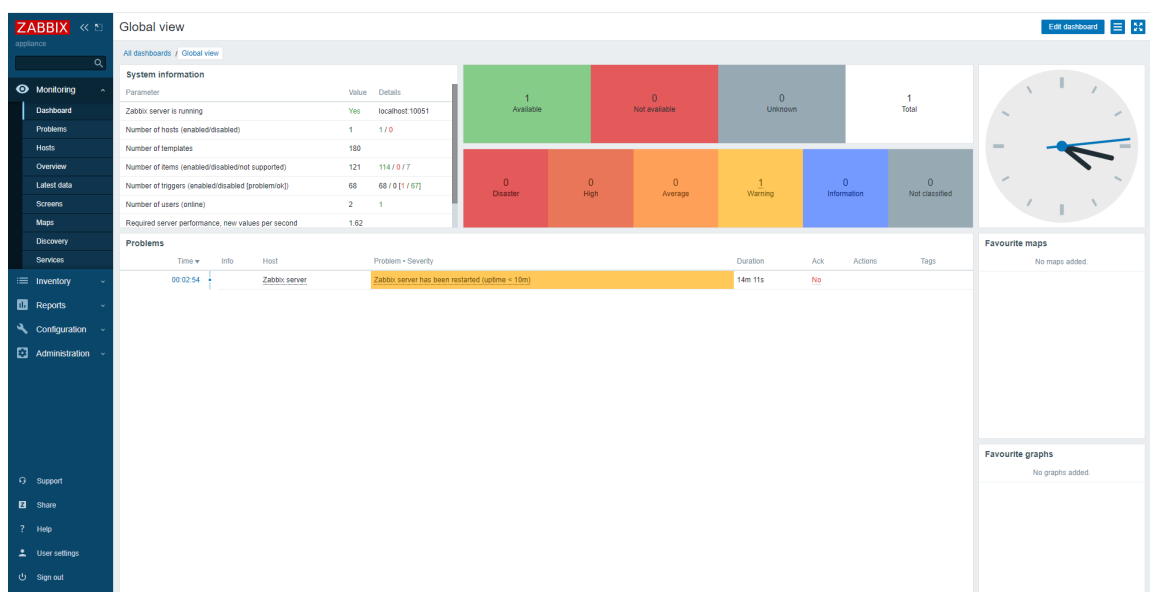


Figura 14. Fuente. Cristian Toro y Wendy Esteban.

Anfitrión	Problema - Severidad	Duración	Ack	Comportamiento
Servidor Zabbix	El servidor Zabbix se ha reiniciado (tiempo de actividad <10 m)	15m 50s	No	

Figura 15. Fuente. Cristian Toro y Wendy Esteban.

6.2. Configuración Zabbix.

Información del sistema

Parámetro		
El servidor Zabbix se está ejecutando		
Número de hosts (habilitados / deshabilitados)		
Número de plantillas	Valor	Detalles
	sí	localhost: 10051
Número de elementos (habilitados / deshabilitados / no admitidos)	1	1 / 0
Número de disparadores (habilitado / deshabilitado [problema / ok])	180	
	121	114 / 0 / 7
Número de usuarios (en línea)	68	68/0 [0 / 68]
Rendimiento del servidor requerido, nuevos valores por segundo	2	1
	1,62	
Se actualizaron las tablas del historial de la base de datos	No	

Figura 16. Fuente. Cristian Toro y Wendy Esteban.

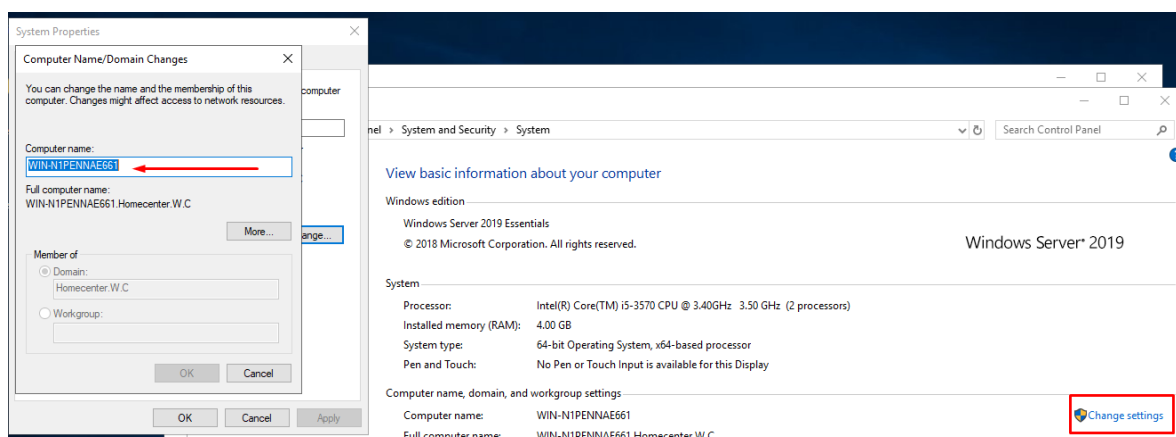


Figura 17. Fuente. Cristian Toro y Wendy Esteban.

Name

Host groups

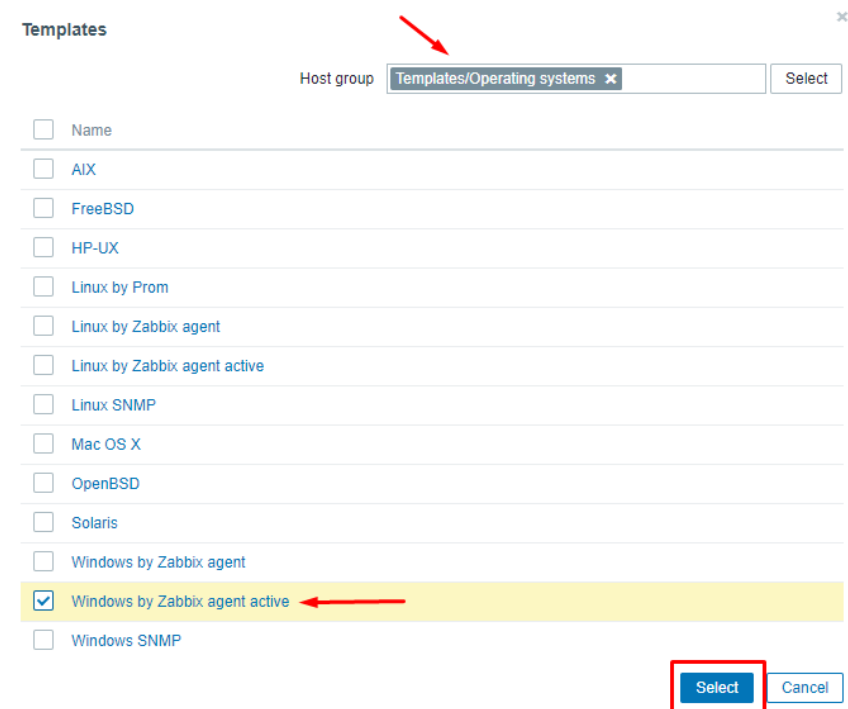
IP

DNS

Port

Severity ☐ Not classified ☐ Warning ☐ High
☐ Information ☐ Average ☐ Disaster

Figura 18. Fuente. Cristian Toro y Wendy Esteban.



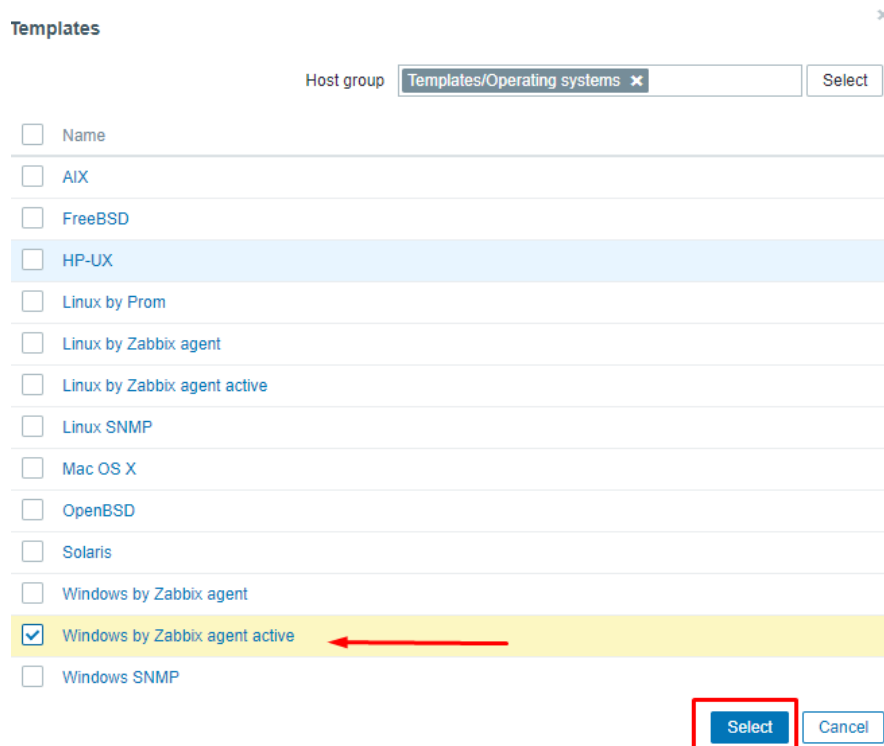
Templates

Host group: Templates/Operating systems x Select

- ☐ Name
- ☐ AIX
- ☐ FreeBSD
- ☐ HP-UX
- ☐ Linux by Prom
- ☐ Linux by Zabbix agent
- ☐ Linux by Zabbix agent active
- ☐ Linux SNMP
- ☐ Mac OS X
- ☐ OpenBSD
- ☐ Solaris
- ☐ Windows by Zabbix agent
- ☒ Windows by Zabbix agent active
- ☐ Windows SNMP

Select Cancel

Figura 19. Fuente. Cristian Toro y Wendy Esteban.



Templates

Host group: Templates/Operating systems x Select

- ☐ Name
- ☐ AIX
- ☐ FreeBSD
- ☐ HP-UX
- ☐ Linux by Prom
- ☐ Linux by Zabbix agent
- ☐ Linux by Zabbix agent active
- ☐ Linux SNMP
- ☐ Mac OS X
- ☐ OpenBSD
- ☐ Solaris
- ☐ Windows by Zabbix agent
- ☒ Windows by Zabbix agent active
- ☐ Windows SNMP

Select Cancel

Figura 20. Fuente. Cristian Toro y Wendy Esteban.

Host groups
 type here to search

Linked templates
 type here to search

Name

Tags

Figura 21. Fuente. Cristian Toro y Wendy Esteban.

Template Linked templates Tags Macros

Linked templates

Name	Action
Link new templates	

Figura 22. Fuente. Cristian Toro y Wendy Esteban.

windows

- Windows by Zabbix agent
- Interfaces Windows SNMP
- Windows SNMP
- Windows CPU by Zabbix agent
- Windows memory by Zabbix agent
- Windows filesystems by Zabbix agent
- Windows physical disks by Zabbix agent
- Windows generic by Zabbix agent
- Windows network by Zabbix agent
- Windows services by Zabbix agent
- Windows CPU by Zabbix agent active
- Windows filesystems by Zabbix agent active
- Windows generic by Zabbix agent active
- Windows memory by Zabbix agent active
- Windows network by Zabbix agent active
- Windows physical disks by Zabbix agent active
- Windows services by Zabbix agent active

Figura 23. Fuente. Cristian Toro y Wendy Esteban.

Templates

☒ Template added

Figura 24. Fuente. Cristian Toro y Wendy Esteban.

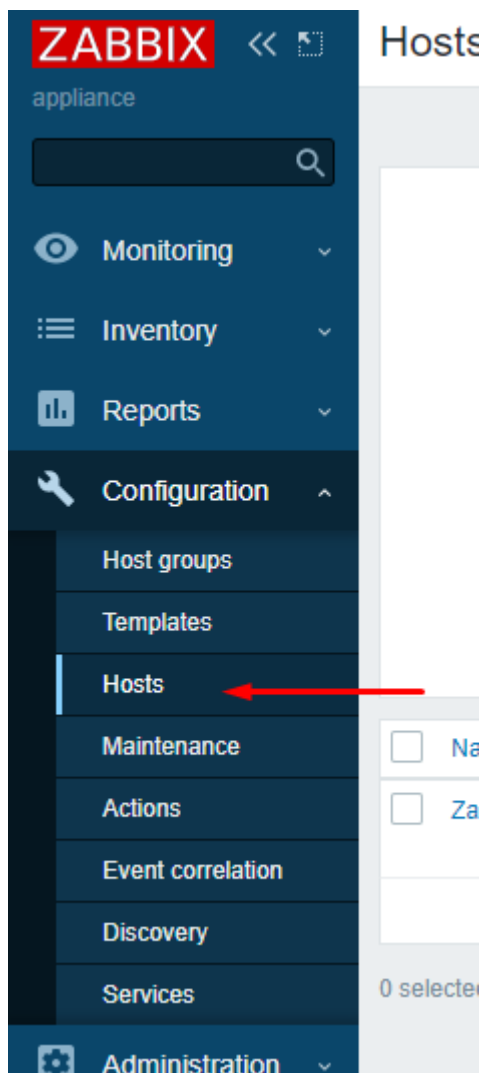


Figura 25. Fuente. Cristian Toro y Wendy Esteban.

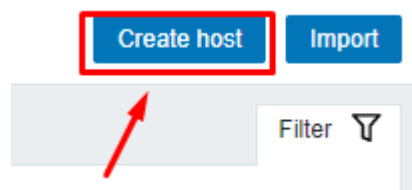


Figura 26. Fuente. Cristian Toro y Wendy Esteban.

* Host name: WIN-N1PENNAE661

Visible name: HomecenterSENA

* Groups: Discovered hosts, Hypervisors, Linux servers, Templates, Templates/Applications, Templates/Databases, Templates/Modules, Templates/Network devices, Templates/Operating systems, Templates/Power, Templates/SAN, Templates/Server hardware, Templates/Telephony, Templates/Virtualization, Virtual machines, Zabbix servers

Interfaces:

Type	IP address	DNS name	Connect to	Port	Default
Agent	192.168.0.235	127.0.0.1	IP	DNS	10050

Description: Proyecto De Etapa Productiva.

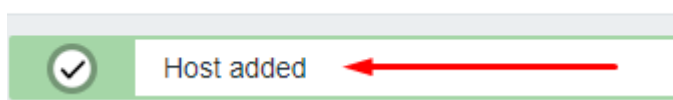
Monitored by proxy: (no proxy)

Enabled: ☒

Add Cancel

Figura 27. Fuente. Cristian Toro y Wendy Esteban.

Hosts



Name	Interface	Availability	Tags	Problems	Status
HomecenterSENA	192.168.0.235: 10050	ZBX SNMP JMX IPMI			Enabled

Figura 28. Fuente. Cristian Toro y Wendy Esteban.

Name: HomecenterSENA Interface: 192.168.0.235: 10050

Zabbix server

- HOST
- Inventory
- Latest data
- Problems
- Graphs
- Dashboards
- Web
- Configuration
- SCRIPTS
- Detect operating system
- Ping
- Traceroute

Figura 29. Fuente. Cristian Toro y Wendy Esteban.

Hacemos ping desde zabbix a nuestro windows server.

Ping

```
ping -c 3 192.168.0.235; case $? in [01]) true;; *) false;; esac
```

```
PING 192.168.0.235 (192.168.0.235) 56(84) bytes of data.  
64 bytes from 192.168.0.235: icmp_seq=1 ttl=128 time=0.329 ms  
64 bytes from 192.168.0.235: icmp_seq=2 ttl=128 time=0.413 ms  
64 bytes from 192.168.0.235: icmp_seq=3 ttl=128 time=0.319 ms  
  
--- 192.168.0.235 ping statistics ---  
3 packets transmitted, 3 received, 0% packet loss, time 41ms  
rtt min/avg/max/mdev = 0.319/0.353/0.413/0.047 ms
```

Figura 30. Fuente. Cristian Toro y Wendy Esteban.

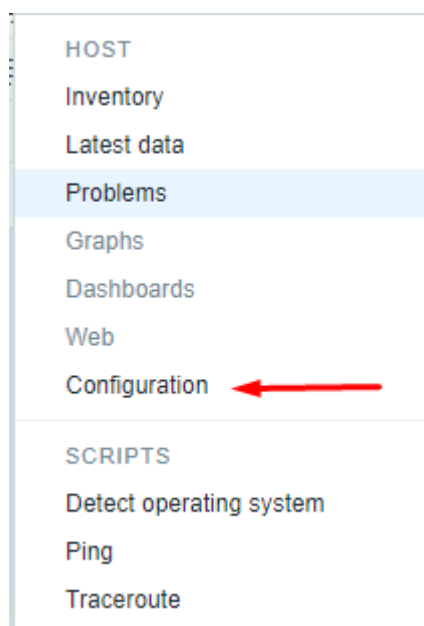


Figura 31. Fuente. Cristian Toro y Wendy Esteban.

Name ▲	Interface	Availability	Tags	Problems	Status	Latest
HomecenterSENA	192.168.0.235: 10050	ZBX SNMP JMX IPMI			Enabled	Latest
HomecenterSENAPC	192.168.0.235: 10050	ZBX SNMP JMX IPMI			Enabled	Latest
Zabbix server	127.0.0.1: 10050	ZBX SNMP JMX IPMI			Enabled	Latest

Figura 32. Fuente. Cristian Toro y Wendy Esteban.

Time ▼	Info	Host	Problem • Severity	Duration	Ack	Actions
17:36:29		HomecenterSENA	Zabbix agent is not available (for 3m)	1m 51s	No	

Figura 33. Fuente. Cristian Toro y Wendy Esteban.

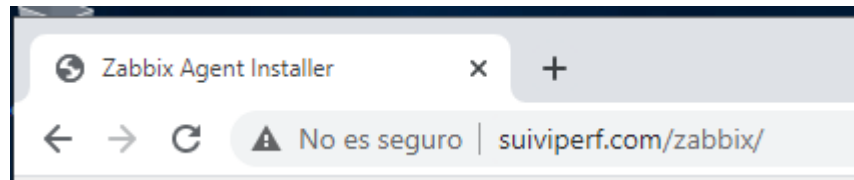


Figura 34. Fuente. Cristian Toro y Wendy Esteban.

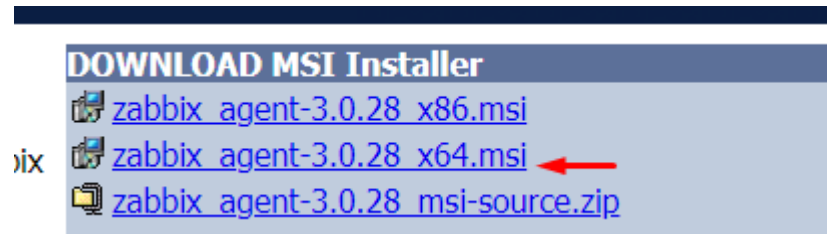


Figura 35. Fuente. Cristian Toro y Wendy Esteban.

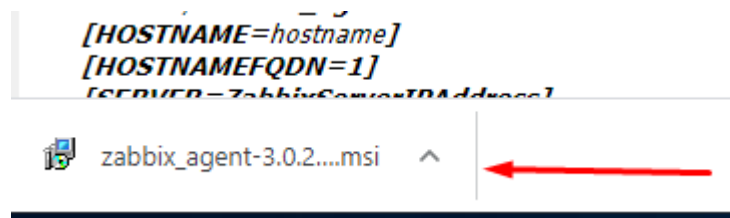


Figura 36. Fuente. Cristian Toro y Wendy Esteban.

Para solucionar este problema y poder instalar el agente tenemos que realizar una pequeña configuración en windows defender.



Figura 37. Fuente. Cristian Toro y Wendy Esteban.

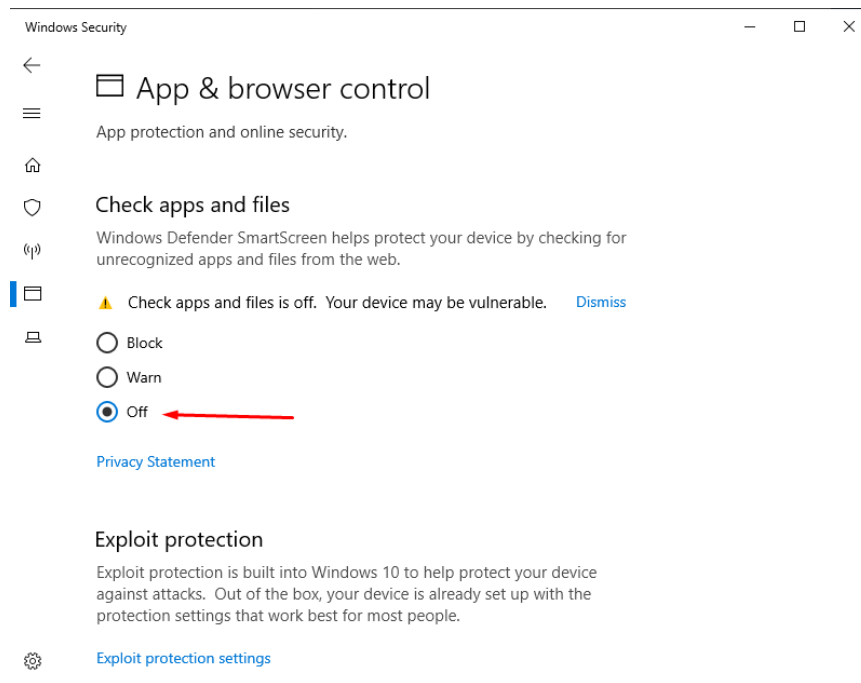


Figura 38. Cristian Toro y Wendy Esteban.

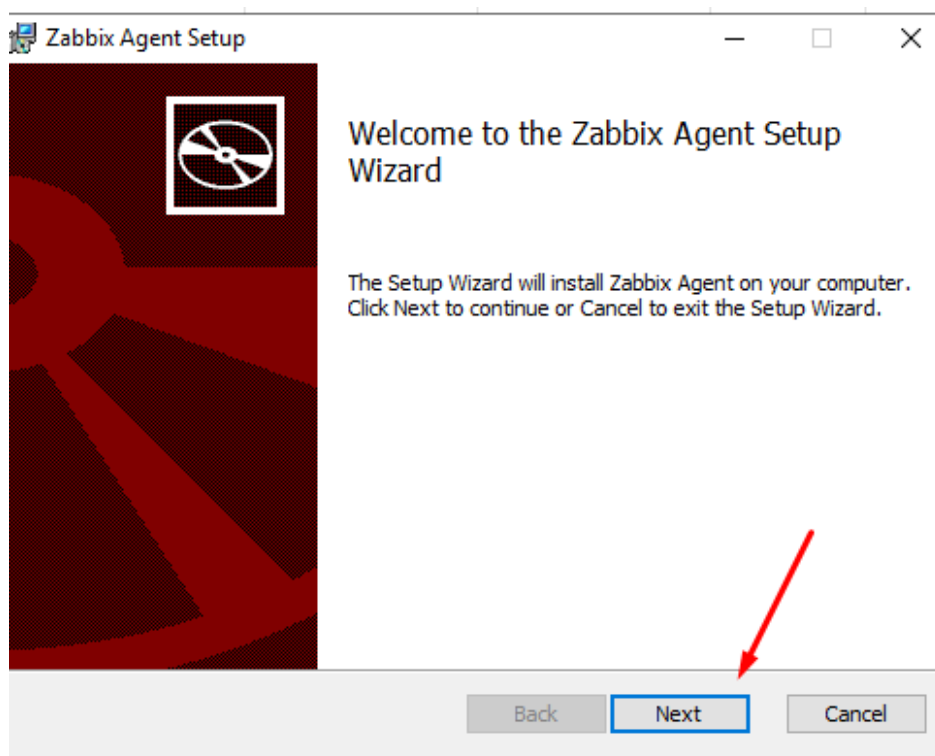


Figura 39. Fuente. Cristian Toro y Wendy Esteban.

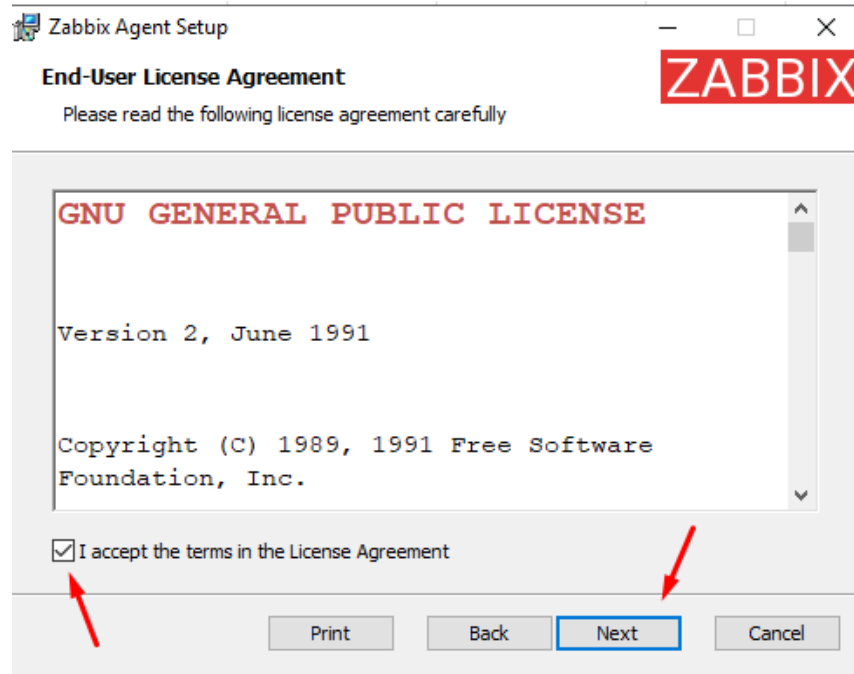


Figura 40. Fuente. Cristian Toro y Wendy Esteban.

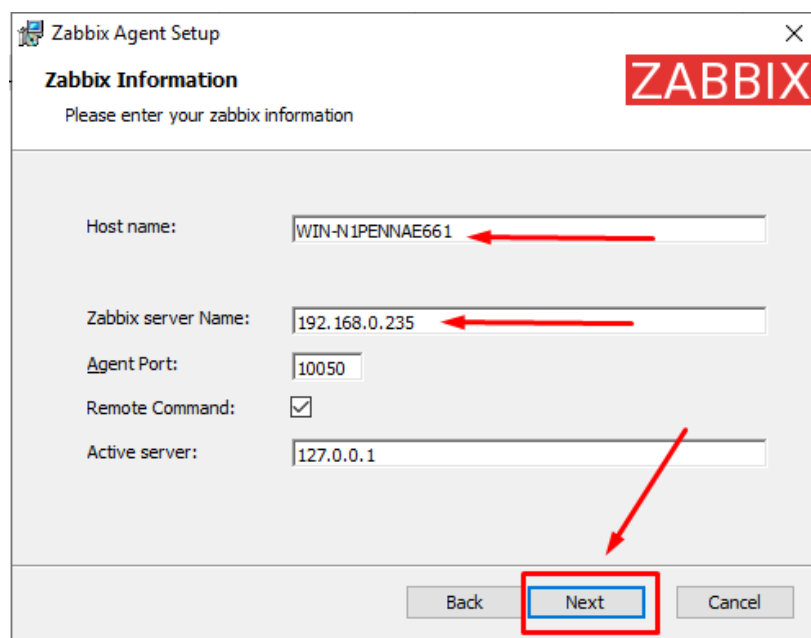


Figura 41. Fuente. Cristian Toro y Wendy Esteban.

Para solucionar este problema tenemos que habilitar el puerto 10050 en windows server 2019.

Name	Group	Profile	Enabled	Action	Override	Program	Local Address	Remote Address	Protocol
✓ Zabbix port 2		All	Yes	Allow	No	Any	Any	Any	TCP
✓ Zabbix		All	Yes	Allow	No	Any	Any	Any	TCP
✓ Active Directory Domain Controller - Echo Resu	Active Directory Domain Ser	All	Yes	Allow	No	System	Any	Any	ICMPv4

Figura 42. Fuente Cristian Toro.

Get value from agent failed: cannot connect to [192.168.0.235]: [4] Interrupted system call

Figura 43. Fuente. Cristian Toro y Wendy Esteban.

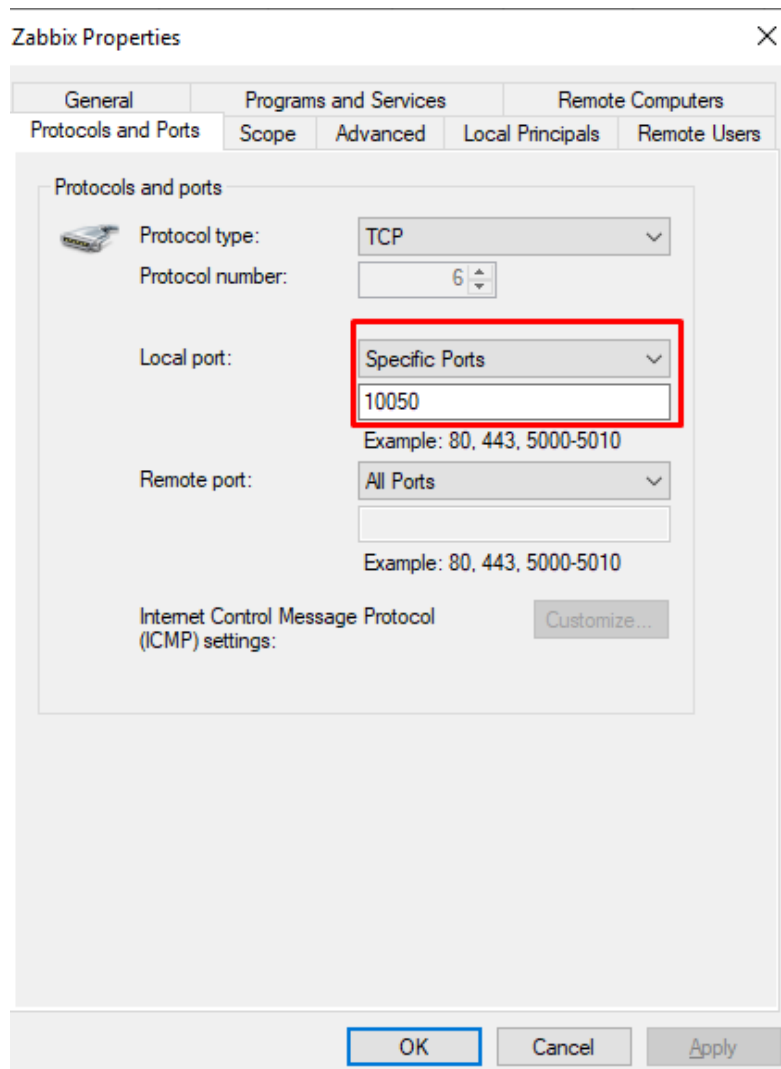


Figura 44. Fuente. Cristian Toro y Wendy Esteban.

El error 104 significa que el servidor zabbix ha llegado al agente con su pregunta y ahora el agente ha preparado la respuesta y la envía de vuelta, pero la respuesta de alguna manera no puede llegar al servidor.

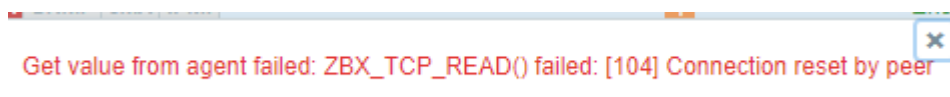


Figura 45. Fuente. Cristian Toro y Wendy Esteban.

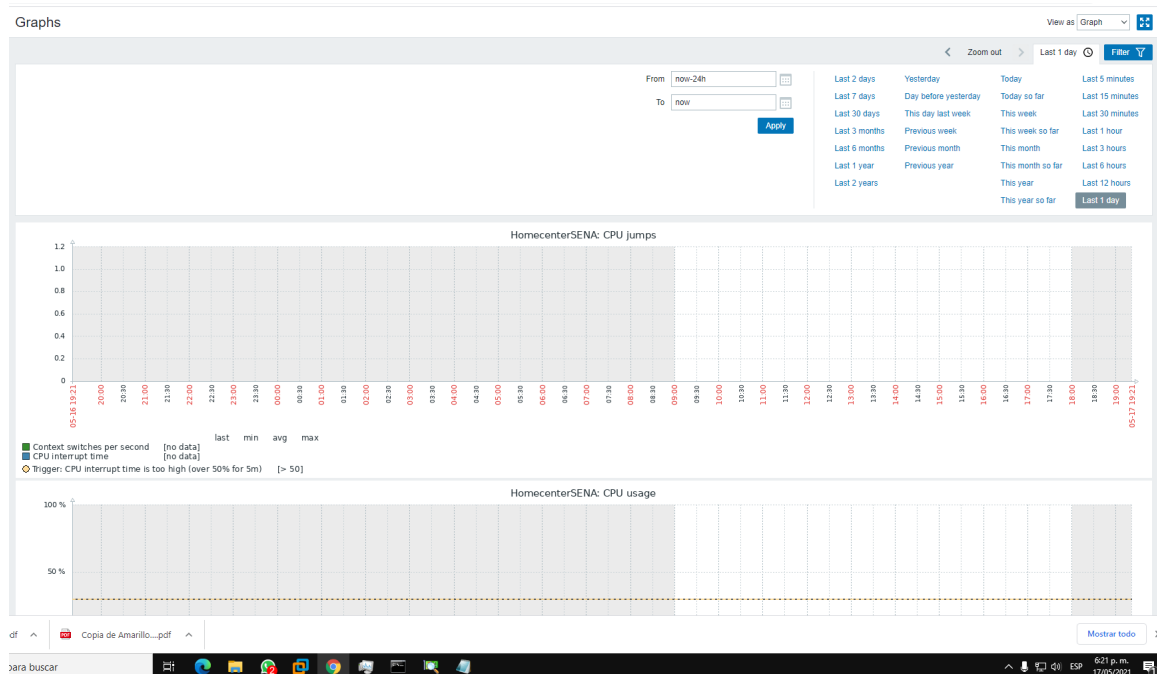


Figura 46. Fuente. Cristian Toro y Wendy Esteban.

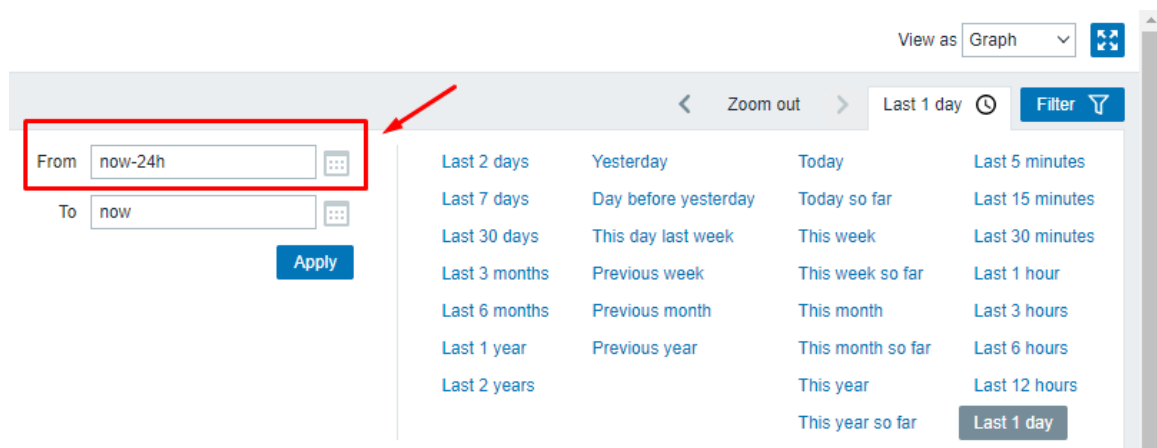
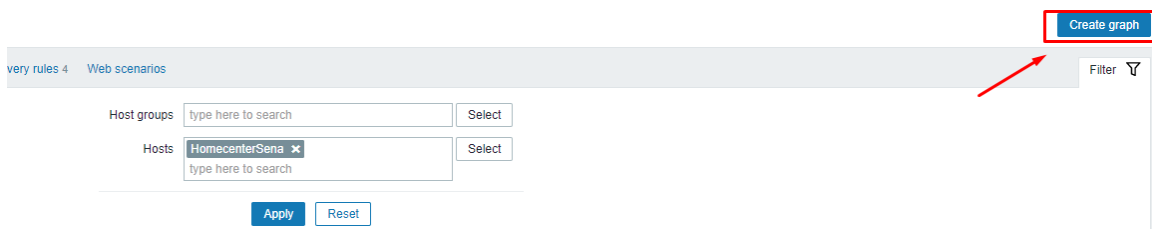


Figura 47. Fuente. Cristian Toro y Wendy Esteban.



Graph Preview

* Name CPU

* Width 900

* Height 200

Graph type Normal

Show legend Normal

Show working time Stacked

Show triggers Pie

Percentile line (left) Exploded

Percentile line (right)

Y axis MIN value Calculated

Y axis MAX value Calculated

* Items

Name	Function	Draw style	Y axis side	Colour	Ac
------	----------	------------	-------------	--------	----

Figura 48. Fuente. Cristian Toro y Wendy Esteban.

Y axis MIN value Calculated

Y axis MAX value Calculated

* Items

Add

Add Cancel

Figura 49. Fuente. Cristian Toro y Wendy Esteban.

Items

Host HomecenterSena

Name	Key	Type	Type of information	Status
<input checked="" type="checkbox"/> C:: Space utilization	vfs.fs.size[C::used]	Zabbix agent	Numeric (float)	Enabled
<input checked="" type="checkbox"/> C:: Total space	vfs.fs.size[C::total]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/> C:: Used space	vfs.fs.size[C::used]	Zabbix agent	Numeric (unsigned)	Enabled
<input type="checkbox"/> Cache bytes	perf_counter_en["Memory\Cache Bytes"]	Zabbix agent	Numeric (unsigned)	Not supported
<input type="checkbox"/> Context switches per second	perf_counter_en["System\Context Switches/sec"]	Zabbix agent	Numeric (float)	Not supported
<input type="checkbox"/> CPU DPC time	perf_counter_en["Processor Information(_total)% DPC Time"]	Zabbix agent	Numeric (float)	Not supported
<input type="checkbox"/> CPU interrupt time	perf_counter_en["Processor Information(_total)% Interrupt Time"]	Zabbix agent	Numeric (float)	Not supported
<input type="checkbox"/> CPU privileged time	perf_counter_en["Processor Information(_total)% Privileged Time"]	Zabbix agent	Numeric (float)	Not supported
<input type="checkbox"/> CPU queue length	perf_counter_en["System\Processor Queue Length"]	Zabbix agent	Numeric (float)	Not supported
<input type="checkbox"/> CPU user time	perf_counter_en["Processor Information(_total)% User Time"]	Zabbix agent	Numeric (float)	Not supported
<input type="checkbox"/> CPU utilization	system.cpu.util	Zabbix agent	Numeric (float)	Enabled
<input type="checkbox"/> Free swap space	system.swap.free	Calculated	Numeric (unsigned)	Not supported
<input type="checkbox"/> Free swap space in %	system.swap.pfree	Dependent	Numeric (float)	Enabled

Figura 50. Fuente. Cristian Toro y Wendy Esteban.

<input type="checkbox"/>	Name ▲	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates
<input type="checkbox"/>	HomecenterSena	Items 107	Triggers 85	Graphs 13	Discovery 4	Web	192.168.0.235:10050		Windows by memory by z agent)
<input type="checkbox"/>	Zabbix server	Items 127	Triggers 72	Graphs 23	Discovery 3	Web	127.0.0.1:10050		Linux by Zak Zabbix agen

Figura 51. Fuente. Cristian Toro y Wendy Esteban.

<input checked="" type="checkbox"/>	CPU utilization	system.cpu.util	Zabbix agent	Numeric (float)	Enabled
<input type="checkbox"/>	Free swap space	system.swap.free	Calculated	Numeric (unsigned)	Not supported
<input checked="" type="checkbox"/>	Free swap space in %	system.swap.pfree	Dependent item	Numeric (float)	Enabled
<input type="checkbox"/>	Free system page table entries	perf_counter_en["Memory\Free System Page Table Entries"]	Zabbix agent	Numeric (unsigned)	Not supported
<input type="checkbox"/>	Memory page faults per second	perf_counter_en["Memory\Page Faults/sec"]	Zabbix agent	Numeric (float)	Not supported
<input type="checkbox"/>	Memory pages per second	perf_counter_en["Memory\Pages/sec"]	Zabbix agent	Numeric (float)	Not supported
<input type="checkbox"/>	Memory pool non-paged	perf_counter_en["Memory\Pool Nonpaged Bytes"]	Zabbix agent	Numeric (unsigned)	Not supported
<input checked="" type="checkbox"/>	Memory utilization	vm.memory.util	Calculated	Numeric (float)	Enabled
<input checked="" type="checkbox"/>	Number of cores	wmi_get[root/cimv2,"Select NumberOfLogicalProcessors from Win32_ComputerSystem"]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	Number of processes	proc.num[]	Zabbix agent	Numeric (unsigned)	Enabled

Figura 52. Fuente. Cristian Toro y Wendy Esteban.

Procedemos a monitorear el Directorio activo y controlador de dominio desde Zabbix.

<input checked="" type="checkbox"/>	State of service "ADWS" (Active Directory Web Services)	service.info["ADWS",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "AppHostSvc" (Application Host Helper Service)	service.info["AppHostSvc",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "BFE" (Base Filtering Engine)	service.info["BFE",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "BrokerInfrastructure" (Background Tasks Infrastructure Service)	service.info["BrokerInfrastructure",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "CDPSvc" (Connected Devices Platform Service)	service.info["CDPSvc",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "CDPUserSvc_4d187" (Connected Devices Platform User Service_4d187)	service.info["CDPUserSvc_4d187",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "CDPUserSvc_57652" (Connected Devices Platform User Service_57652)	service.info["CDPUserSvc_57652",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "CoreMessagingRegistrar" (CoreMessaging)	service.info["CoreMessagingRegistrar",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "CryptSvc" (Cryptographic Services)	service.info["CryptSvc",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "DcomLaunch" (DCOM Server Process Launcher)	service.info["DcomLaunch",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "Dfs" (DFS Namespace)	service.info["Dfs",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "DFSR" (DFS Replication)	service.info["DFSR",state]	Zabbix agent	Numeric (unsigned)	Enabled
<input checked="" type="checkbox"/>	State of service "Dhcp" (DHCP Client)	service.info["Dhcp",state]	Zabbix agent	Numeric (unsigned)	Enabled

Figura 53. Fuente. Cristian Toro y Wendy Esteban.

Monitoreo Gráfico al servidor de zabbix.



Figura 55. Fuente. Cristian Toro y Wendy Esteban.

Network interfaces

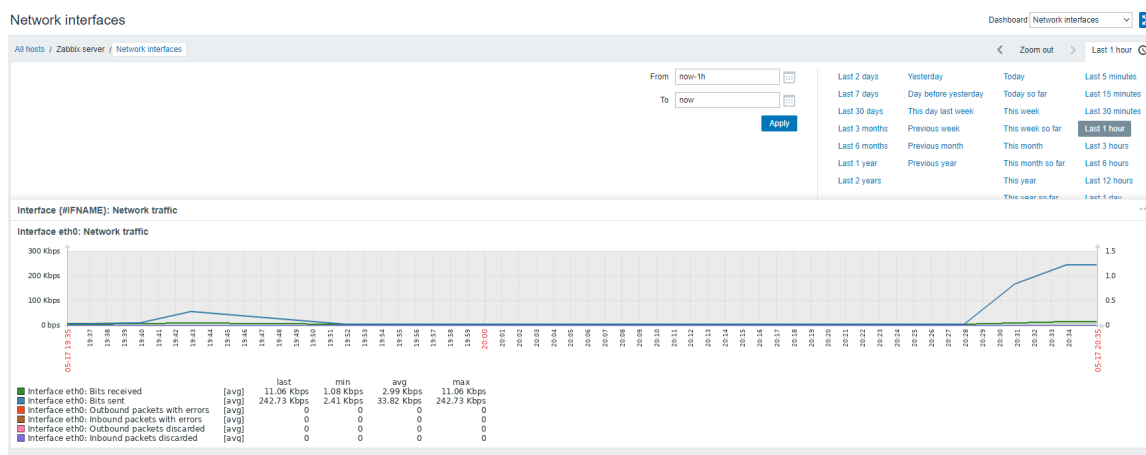


Figura 56. Fuente. Cristian Toro y Wendy Esteban.

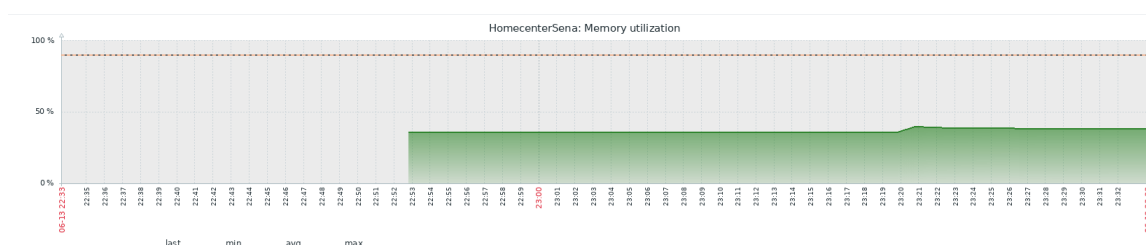


Figura 57. Fuente. Cristian Toro y Wendy Esteban.

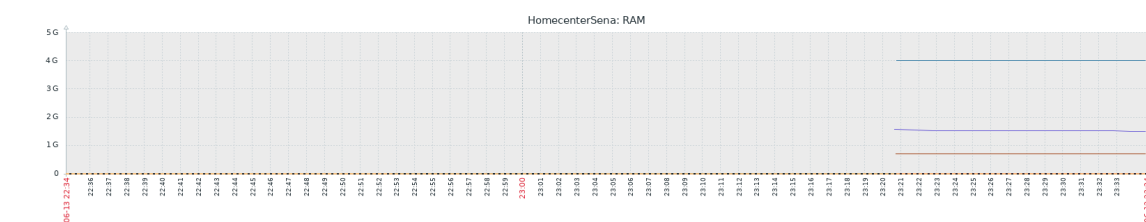


Figura 58. Fuente. Cristian Toro y Wendy Esteban.

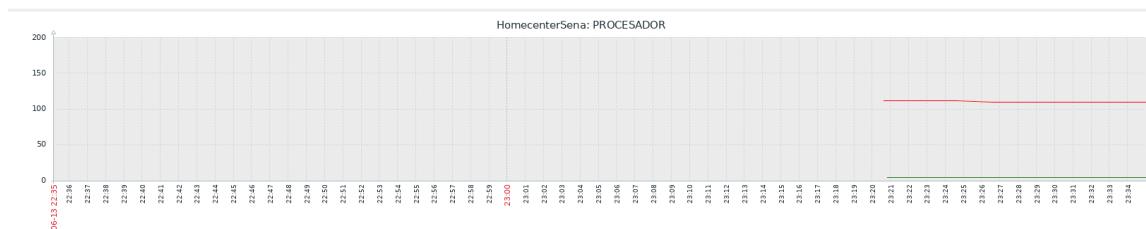


Figura 59. Fuente. Cristian Toro y Wendy Esteban.

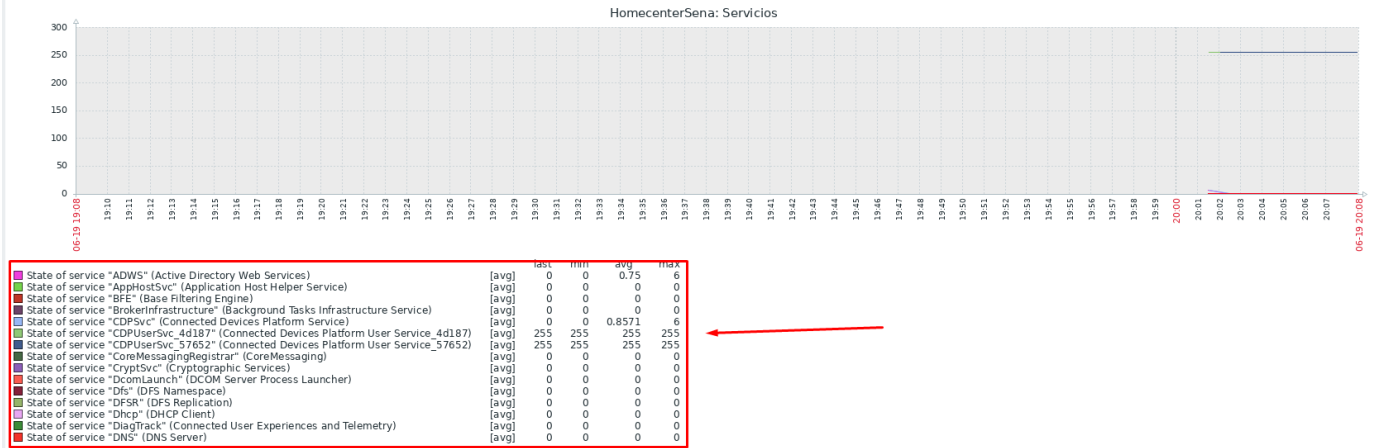


Figura 60. Fuente. Cristian Toro y Wendy Esteban.

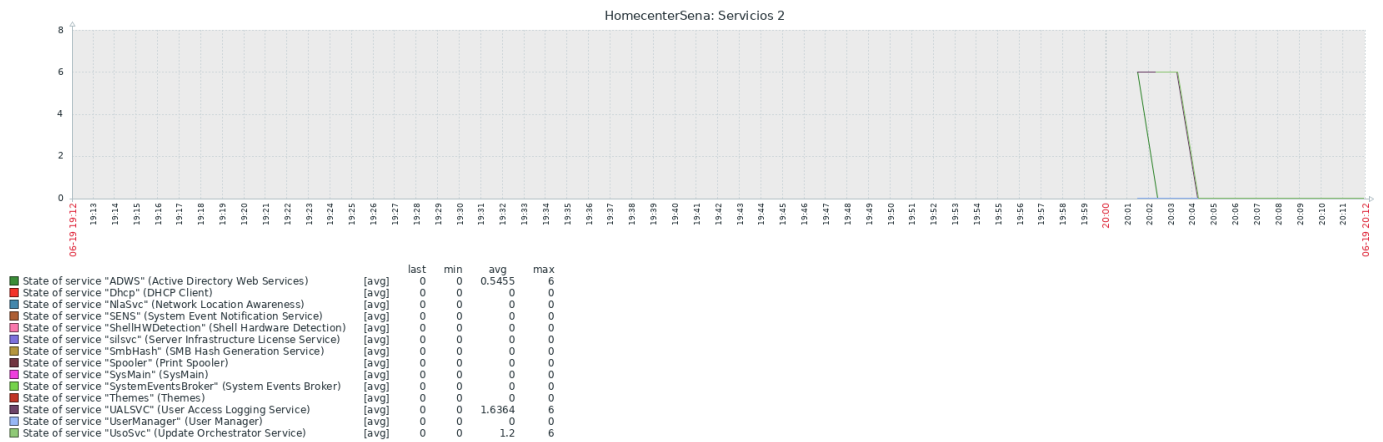


Figura 61. Fuente. Cristian Toro y Wendy Esteban.

Firman:

<p>Cristian ↑</p> <p>Wendy Esteban</p>
<p>Realizado por: CRISTIAN-TORO / Y WENDY-ESTEBAN.</p>
<p>Funcionario que Recibe : JUAN VILLAMIL</p>