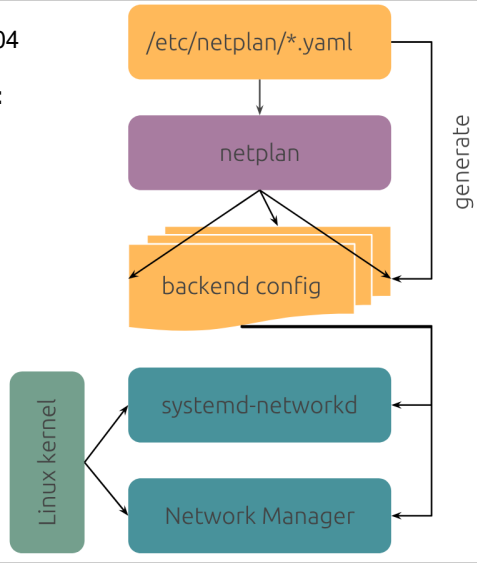


Sistemas instalados por defecto en varias versiones:		LOGS (registros): ver los logs con información de funcionamiento																																																																													
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Ubuntu 22.04 persona@ubuntu22:/etc/NetworkManager/system-connections\$ sudo systemctl --type=service --all   grep -i "net"		<table><tr><th>Operación</th><th>Command</th></tr><tr><td>View log for system services and kernel from the last boot</td><td>journalctl -b --system</td></tr><tr><td>View log for services of the current user from the last boot</td><td>journalctl -b --user</td></tr><tr><td>View job log of "\$unit" from the last boot</td><td>journalctl -b -u \$unit</td></tr><tr><td>View job log of "\$unit" ("tail -f" style) from the last boot</td><td>journalctl -b -u \$unit -f</td></tr></table>		Operación	Command	View log for system services and kernel from the last boot	journalctl -b --system	View log for services of the current user from the last boot	journalctl -b --user	View job log of "\$unit" from the last boot	journalctl -b -u \$unit	View job log of "\$unit" ("tail -f" style) from the last boot	journalctl -b -u \$unit -f																																																																		
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"\$unit"</td><td>systemctl start \$unit</td></tr><tr><td>Stop "\$unit"</td><td>systemctl stop \$unit</td></tr><tr><td>Reload service-specific configuration</td><td>systemctl reload \$unit</td></tr><tr><td>Stop and start all "\$unit"</td><td>systemctl restart \$unit</td></tr><tr><td>Check status of "\$unit \$PID device"</td><td>systemctl status \$unit \$PID \$device</td></tr><tr><td></td><td>systemctl status --type=service</td></tr><tr><td></td><td>systemctl --type=service</td></tr><tr><td>Show properties of "\$unit \$job"</td><td>systemctl show \$unit \$job</td></tr><tr><td>Reset failed "\$unit"</td><td>systemctl reset-failed \$unit</td></tr><tr><td>List dependency of all unit services</td><td>systemctl list-dependencies --all</td></tr><tr><td>List unit files installed on the system</td><td>systemctl list-unit-files</td></tr><tr><td>Enable "\$unit" (add symlink)</td><td>systemctl enable \$unit</td></tr><tr><td>Disable "\$unit" (remove symlink)</td><td>systemctl disable 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poweroff</td></tr><tr><td>Shut down and reboot the system</td><td>systemctl reboot</td></tr><tr><td>Suspend the system</td><td>systemctl suspend</td></tr><tr><td>Hibernate the system</td><td>systemctl hibernate</td></tr></table>		Operación	Comando	List all available unit types	systemctl list-units --type=help	List all target units in memory	systemctl list-units --type=target		systemctl list-unit-files	List all service units in memory	systemctl list-units --type=service	List all device units in memory	systemctl list-units --type=device	List all mount units in memory	systemctl list-units --type=mount		systemctl list-unit-files --state=masked   running   active	List all socket units in memory	systemctl list-sockets	List all timer units in memory	systemctl list-timers	List failed units	systemctl --failed	Start "\$unit"	systemctl start \$unit	Stop "\$unit"	systemctl stop \$unit	Reload service-specific configuration	systemctl reload \$unit	Stop and start all "\$unit"	systemctl restart 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Debian Server (minimal) 12 root@debianminimo:~# systemctl --type=service --all   grep -i "net"																																																																															
Habilitar/desabilitar y levantar servicios: sudo systemctl disable network-manager sudo systemctl stop network-manager  sudo systemctl enable systemd-networkd sudo systemctl start systemd-networkd sudo systemctl start systemd-resolved  sudo systemctl enable systemd-resolved sudo systemctl restart systemd-networkd	Herramientas																																																																														
	lshw -class network ethtool enp0s3  rgrep wlan0 /etc find /etc -name '*wlan0*' echo /sys/class/net/* udevadm test-builtin net_id /sys/class/net/enp0s1 2>/dev/null	ss -ltu      ss -tu ss -tua      ss -s ss -4        ss -6 ss -p        ss -l  \$ ss -at '( dport = :22 or sport = :22 )'	netstat -putan																																																																												

Configuración de parámetros IPv4 ( en azul, lo relativo a configuración de resolución de nombres)			
<div>1. Sistema manual</div> <div>Comandos:</div> <div>Añadir una dirección IP y una máscara a una interfaz de red:</div> <div>ip addr add 10.102.66.200/24 dev enp0s25</div> <div>Activar (subir) y desactivar (bajar) una interfaz de red:</div> <div>ip link set dev enp0s25 up</div> <div>ip link set dev enp0s25 down</div> <div>Ver los parámetros IP de una interfaz de red:</div> <div>ip address show dev enp0s25</div> <div>Añadir una ruta a la tabla de enrutamiento:</div> <div>ip route add default via 10.102.66.1</div> <div>Ver la tabla de enrutamiento:</div> <div>ip route show</div> <div>Borrar toda la configuración de la interfaz de red:</div> <div>ip addr flush eth0</div> <div>Propiedades de la interfaz de loopback:</div> <div>ip address show lo</div> <div>Cambiar temporalmente el nombre a una interfaz de red:</div> <div>ip link set dev eth0 down</div> <div>ip link set dev eth0 name neweth0</div> <div>ip link set dev neweth0 up</div>	<div>3. systemd-networkd y systemd-resolved</div> <div>Directorios y ficheros:</div> <div>/etc/systemd/network</div> <div>/etc/systemd/network/fichero.network</div> <div>/etc/systemd/network/fichero.network.d/*.conf</div> <div>/run/systemd/network</div> <div>/lib/systemd/network</div> <div>/etc/resolv.conf</div> <div>/etc/hosts</div> <div>/etc/nsswitch.conf</div> <div>/etc/systemd/resolved.conf configuración global</div> <div>/etc/systemd/resolved.conf.d/*.conf</div> <div>/run/systemd/resolved.conf.d/*.conf</div> <div>/usr/lib/systemd/resolved.conf.d/*.conf</div> <div>/run/systemd/resolve/stub-resolv.conf</div> <div>Comandos:</div> <div>networkctl</div> <div>resolvectl</div> <div>networkctl list</div> <div>networkctl status</div> <div>networkctl -a</div> <div>networkctl -s</div> <div>networkctl up enp0s3</div> <div>networkctl down enp0s3</div> <div>networkctl renew enp0s3</div> <div>networkctl reconfigure enp0s3</div> <div>networkctl reload</div> <div>Crear fichero configuración interfaz de red DHCP:</div> <div>En /etc/systemd/network/20-dhcp.network</div> <div>[Match]</div> <div>Name=enp5s0</div> <div>[Network]</div> <div>DHCP=yes</div> <div>Crear fichero configuración interfaz de red estática:</div> <div>En /etc/systemd/network/20-enps03.network</div> <div>[Network]</div> <div>Address=10.1.10.9/24</div> <div>Gateway=10.1.10.1</div> <div>DNS=10.1.10.1</div> <div>Domains=empresa.net filial.empresa.net</div> <div>Cambiar el nombre de una interfaz por uno personalizado:</div> <div>/etc/systemd/network/10-persistent-net.link</div> <div>[Match]</div> <div>MACAddress=01:23:45:67:89:ab</div> <div>[Link]</div> <div>Name=nuevoNombre</div> <div>RESOLUCIÓN DE NOMBRES</div> <div>resolvectl status</div> <div>resolvectl flush-caches</div> <div>resolvectl query www.edu.xunta.gal -i enp0s3</div> <div>resolvectl statistics</div> <div>resolvectl dns enps03</div> <div>resolvectl dns enps03 8.8.4.4 8.8.8.8</div> <div>resolvectl revert enp0s3</div> <div>Configurar servidores DNS globales</div> <div>/etc/systemd/resolved.conf.d/dns_servers.conf</div> <div>[Resolve]</div> <div>DNS=192.168.35.1 fd7b:d0bd:7a6e::1</div> <div>Domains=~.</div>	<div>4. NetworkManager</div> <div>Directorios y ficheros:</div> <div>/etc/NetworkManager</div> <div>/run/NetworkManager/no-stub-resolv.conf</div> <div>Comandos:</div> <div>nm-connection-editor</div> <div>nmtui</div> <div>nmcli</div> <div>Desactivar que NetworkManager gestione resolv.conf:</div> <div>En /etc/NetworkManager/NetworkManager.conf</div> <div>[main]</div> <div>dns=none</div> <div>Ver la configuración actual:</div> <div>NetworkManager --print-config</div> <div>Comando nmcli</div> <div>Mostrar estado general de NetworkManager:</div> <div>nmcli general status</div> <div>nmcli -t -f STATE general</div> <div>Mostrar estado general de NetworkManager:</div> <div>nmcli general status</div> <div>Mostrar todas las conexiones:</div> <div>nmcli connection show</div> <div>Mostrar solo las conexiones activas:</div> <div>nmcli connection show --active</div> <div>Mostrar los dispositivos reconocidos por NetworkManager:</div> <div>nmcli device status</div> <div>Bajar y subir interfaces y/o conexiones:</div> <div>nmcli con up id 'Conexión cableada 1'</div> <div>nmcli con down id 'Conexión cableada 1'</div> <div>nmcli dev disconnect enp0s3</div> <div>nmcli dev connect enp0s3</div> <div>Modificar el nombre de una interfaz:</div> <div>nmcli connection</div> <div>Listar las propiedades de una conexión concreta:</div> <div>nmcli connection show nombreConexión</div> <div>Listar dispositivos y conexiones gestionadas:</div> <div>nmcli -f NAME,DEVICE,FILENAME connection show</div> <div>Crear una conexión configurada por DHCP:</div> <div>nmcli con add type ethernet</div> <div>con-name mi-hogar ifname enp0s3</div> <div>nmcli con modify mi-hogar mi-hogar ipv4.ignore-auto-dns yes</div> <div>nmcli con up mi-hogar</div> <div>Crear una conexión con configuración IP estática:</div> <div>nmcli connection add type ethernet</div> <div>con-name mi-chollo ifname enp0s3</div> <div>ip4 192.168.1.34/24 gw4 192.168.1.1</div> <div>nmcli con mod mi-chollo ipv4.dns "8.8.8.8 8.8.4.4"</div> <div>nmcli con up mi-chollo</div> <div>Añadir más direcciones IP sobre la misma interfaz:</div> <div>nmcli connection modify mi-chollo +ipv4.addresses</div> <div>"192.168.1.22/24,192.168.1.23/24,192.168.1.24/24"</div> <div>Listar los puntos de acceso WiFi disponibles:</div> <div>nmcli device wifi list</div> <div>Configurar una conexión WiFi, con seguridad WPA2:</div> <div>nmcli con add con-name MiCafe ifname wlp61s0</div> <div>type wifi ssid Cafeto</div> <div>nmcli con modify MiCafe wifi-sec.key-mgmt wpa-psk</div> <div>nmcli con modify MyCafe wifi-sec.psk SeKret00</div> <div>nmcli radio wifi on</div> <div>Ver propiedades de la WiFi:</div> <div>nmcli connection show id 'MiCafe'</div>	<div>5. netplan</div> <div>Ubuntu 22.04 /24.04</div> <div>Directorios y ficheros:</div> <div>/run/netplan/*.yaml</div> <div>/etc/netplan/*.yaml</div> <div>/lib/netplan/*.yaml</div> <div>Comandos:</div> <div>netplan</div> <div>Comando netplan</div> <div>netplan try</div> <div>netplan apply</div> <div>netplan status</div> <div>netplan ip leases enp0s3</div> <div>Activar systemd-networkd como gestor /backend de red para netplan</div> <div>/etc/netplan/99_config.yaml</div> <div>network:</div> <div>version: 2</div> <div>renderer: networkd</div> <div>ethernets:</div> <div>enp3s0:</div> <div>dhcp4: true</div> <div>Activar NetworkManager como gestor /backend de red para netplan</div> <div>network:</div> <div>version: 2</div> <div>renderer: NetworkManager</div> <div>Configurar interfaz con parámetros IPv4 estáticos:</div> <div>/etc/netplan/99_config.yaml</div> <div>network:</div> <div>version: 2</div> <div>renderer: networkd</div> <div>ethernets:</div> <div>eth0:</div> <div>addresses:</div> <div>- 10.10.10.2/24</div> <div>routes:</div> <div>- to: default</div> <div>via: 10.10.10.1</div> <div>nameservers:</div> <div>search: [mydomain, otherdomain]</div> <div>addresses: [10.10.10.1, 1.1.1.1]</div> <div>Fijar un nombre para una interfaz de red</div> <div>/etc/netplan/99_config.yaml</div> <div>network:</div> <div>version: 2</div> <div>renderer: networkd</div> <div>ethernets:</div> <div>eth_lan0:</div> <div>dhcp4: true</div> <div>match:</div> <div>macaddress: 00:11:22:33:44:55</div> <div>set-name: eth_lan0</div> <div>Desinstalar netplan:</div> <div>sudo apt remove --purge netplan.io</div>





Anexo I: Más ejemplos /etc/network/intefaces	Firewall
<pre>https://www.cyberciti.biz/faq/setting-up-an-network-interfaces-file/ # We always want the loopback interface. # auto lo # iface lo inet loopback  # An example ethernet card setup: (broadcast and gateway are optional) # auto eth0 # iface eth0 inet static #     address 192.168.0.42 #     network 192.168.0.0 #     netmask 255.255.255.0 #     broadcast 192.168.0.255 #     gateway 192.168.0.1  # A more complicated ethernet setup, with a less common netmask, # and a downright weird broadcast address: (the "up" lines are executed # verbatim when the interface is brought up, the "down" lines when it's # brought down) # auto eth0 # iface eth0 inet static #     address 192.168.1.42 #     network 192.168.1.0 #     netmask 255.255.255.128 #     broadcast 192.168.1.0 #     up route add -net 192.168.1.128 netmask 255.255.255.128 gw 192.168.1.2 #     up route add default gw 192.168.1.200 #     down route del default gw 192.168.1.200 #     down route del -net 192.168.1.128 netmask 255.255.255.128 gw 192.168.1.2  # A more complicated ethernet setup with a single ethernet card with # two interfaces. # Note: This happens to work since ifconfig handles it that way, not because # ifup/down handles the ':' any differently. # Warning: There is a known bug if you do this, since the state will not # be properly defined if you try to 'ifdown eth0' when both interfaces # are up. The ifconfig program will not remove eth0 but it will be # removed from the interfaces state so you will see it up until you execute: # 'ifdown eth0:1 ; ifup eth0; ifdown eth0' # BTW, this is "bug" #193679 (it's not really a bug, it's more of a # limitation) # auto eth0 eth0:1 # iface eth0 inet static #     address 192.168.0.100 #     network 192.168.0.0 #     netmask 255.255.255.0 #     broadcast 192.168.0.255 #     gateway 192.168.0.1 # iface eth0:1 inet static #     address 192.168.0.200 #     network 192.168.0.0 #     netmask 255.255.255.0  # "pre-up" and "post-down" commands are also available. In addition, the # exit status of these commands are checked, and if any fail, configuration # (or deconfiguration) is aborted. So: # auto eth0 # iface eth0 inet dhcp #     pre-up [ -f /etc/network/local-network-ok ] # will allow you to only have eth0 brought up when the file # /etc/network/local-network-ok exists.  # Two ethernet interfaces, one connected to a trusted LAN, the other to # the untrusted Internet. If their MAC addresses get swapped (because an # updated kernel uses a different order when probing for network cards, # say), then they don't get brought up at all. # auto eth0 eth1 # iface eth0 inet static #     address 192.168.42.1 #     netmask 255.255.255.0 #     pre-up /path/to/check-mac-address.sh eth0 11:22:33:44:55:66 #     pre-up /usr/local/sbin/enable-masq # iface eth1 inet dhcp #     pre-up /path/to/check-mac-address.sh eth1 AA:BB:CC:DD:EE:FF #     pre-up /usr/local/sbin/firewall</pre>	<div><div><div><div>Directorios y ficheros: <code>/etc/services</code></div><div><code>/etc/default/ufw</code> <code>/etc/ufw/ufw.conf</code> <code>/etc/ufw/sysctl.conf</code> <code>/etc/ufw/before.rules</code> <code>/etc/ufw/after.rules</code> <code>/etc/ufw/user.rules</code></div></div><div><div>Comandos: <code>ufw</code> <code>gufw</code> <code>iptables</code></div><div><code>iptables -L</code> <code>iptables -L -nat</code> <code>iptables -L -mangle</code></div><div><code>sysctl.conf</code> puede se necesario activar (descomentar para ello): <code>net/ipv4/ip_forward=1</code> = <i>habilitar el reenvío IPv4</i> <code>net/ipv6/conf/default/forwarding=1</code> <code>net/ipv6/conf/all/forwarding=1</code></div><div><code>ufw disable</code> <code>ufw enable</code> <code>ufw reload</code></div><div><code>ufw status</code> <code>ufw status numbered</code></div><div><code>ufw allow in on enp0s3 from 192.168.1.30 to any</code> ➦ <code>port 22 proto tcp</code> <code>ufw allow proto tcp from any to any port 22</code> <code>ufw allow 53</code> <code>ufw allow 25/tcp</code> <code>ufw allow smtp</code> smtp es traducido a un número usando /etc/services <code>ufw allow in http</code> <code>ufw reject out smtp</code> <code>ufw reject telnet comment 'telnet is unencrypted'</code> <code>ufw deny proto tcp to any port 80</code> <code>ufw deny proto tcp from 10.0.0.0/8 to 192.168.0.1</code> ➦ <code>port 25</code> <code>ufw allow proto tcp from any to any port 80,443,8080:8090</code> ➦ <code>comment 'web app'</code> <code>ufw limit ssh/tcp</code> <code>ufw deny 80/tcp</code> <code>ufw delete deny 80/tcp</code> <code>ufw delete 3</code></div><div>Logging: <code>ufw allow log 22/tcp</code> <code>ufw loggin off</code> <code>ufw loggin full</code> <code>ufw loggin low</code></div><div>Reglas para controlar qué tráfico enrutar: <code>ufw route allow in on enp0s3 out on enp0s8</code> <code>ufw route allow in on enp0s3 out on enp0s8</code> ➦ <code>to 12.34.45.67 port 80 proto tcp</code></div></div><div></div><div><p><b>Activar enmascaramiento IP (IP Masquerading):</b> Activar reenvío IP (convertir equipo en router): En <code>/etc/ufw/sysctl.conf</code> descomentar: <code>net.ipv4.ip_forward=1</code></p><p>En <code>/etc/ufw/before.rules</code>, después de la sección <b>*filter</b>: <b>*nat</b> :POSTROUTING ACCEPT [0:0] -A POSTROUTING -s 10.0.0.0/8 -o eth0 -j MASQUERADE COMMIT</p><p>En <code>/etc/default/ufw</code> activar (descomentar): <code>DEFAULT_FORWARD_POLICY="ACCEPT"</code></p><p>Permitir el paso de tráfico desde la intranet a internet: <code>ufw route allow in on enp0s3 out on enp0s8 from 192.168.1.0/24</code></p><p>Redireccionar un puerto (abrir un puerto): <code>ufw route allow in on enp0s8 to 192.168.1.4 port 80 proto tcp</code></p></div></div></div>