

IS-611, REDES II

Primer Periodo 2020

Informe Proyecto1 de Clase

Elaborado por:

|  |  |
| --- | --- |
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| **20161000446**  **20161005903**  **20140131775** | **María Fernanda Pineda**  **Alexander Ismael Tejeda**  **José Carlos Velásquez** |

Catedrático: Ing. Rene Velásquez

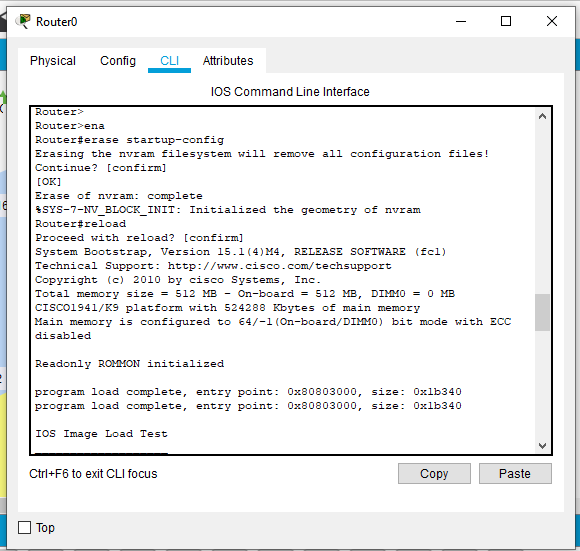
Sección: 13 00

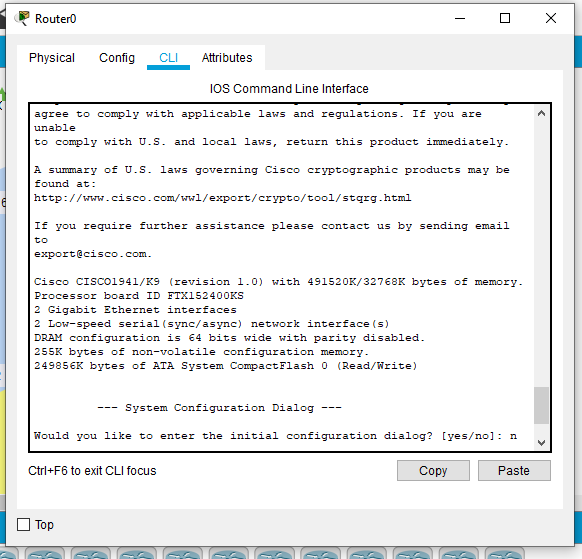
Fecha de Entrega: martes 7 de abril del 2020

**Parte 1:** Inicializar dispositivos

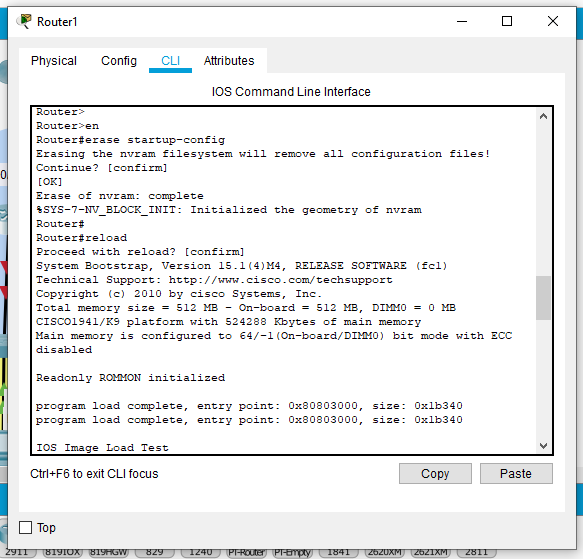
Inicializar y volver a cargar los routers y los switches

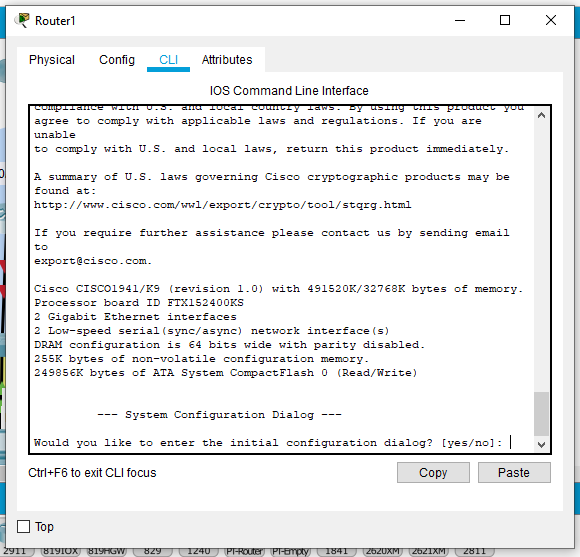
* Router 0



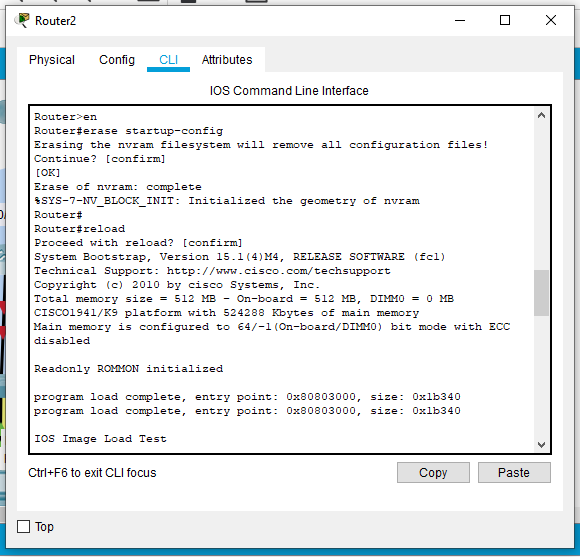


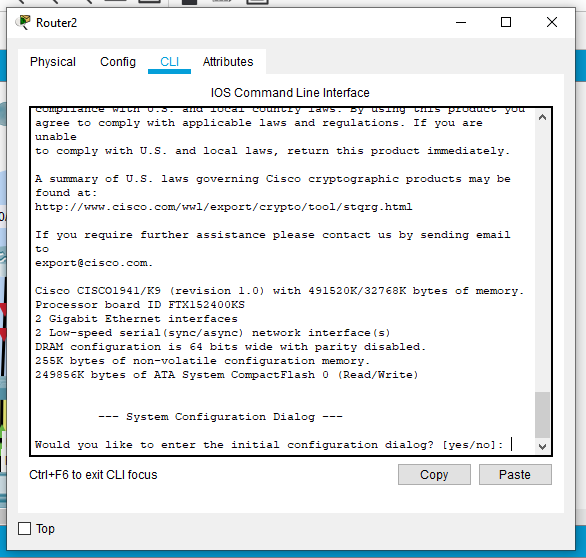
* Router 1



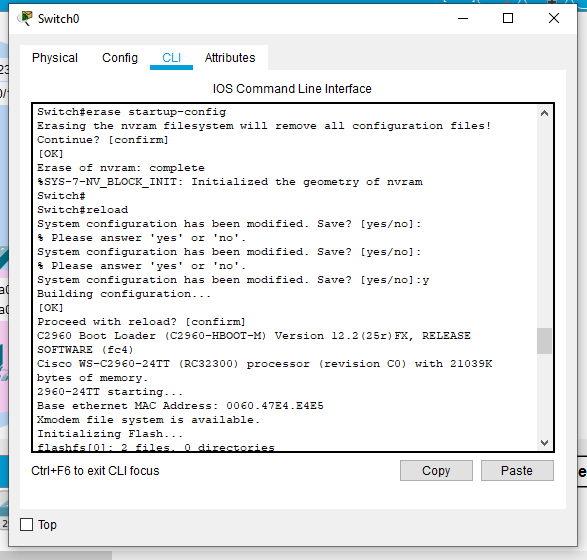


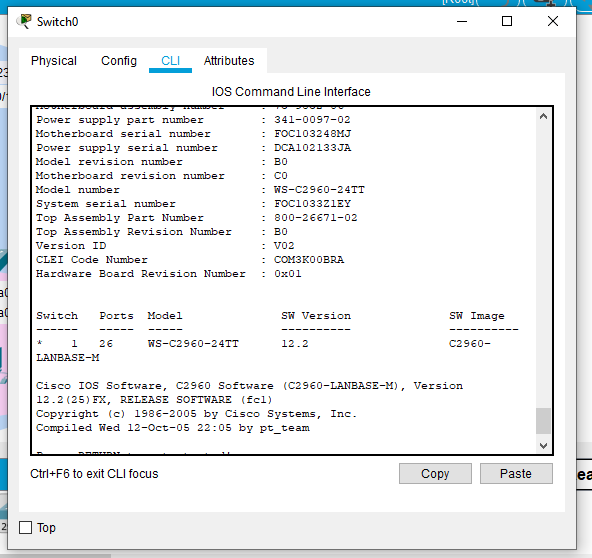
* Router 3



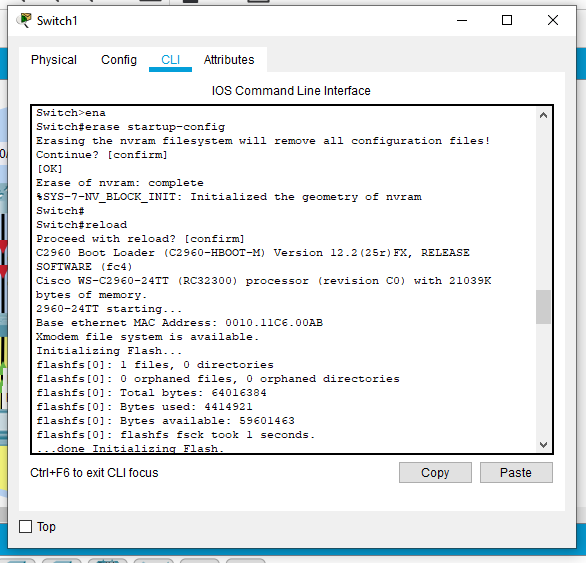


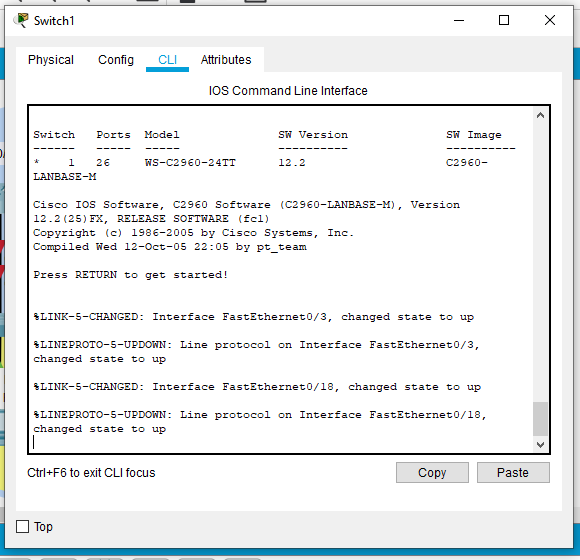
* Switch 0





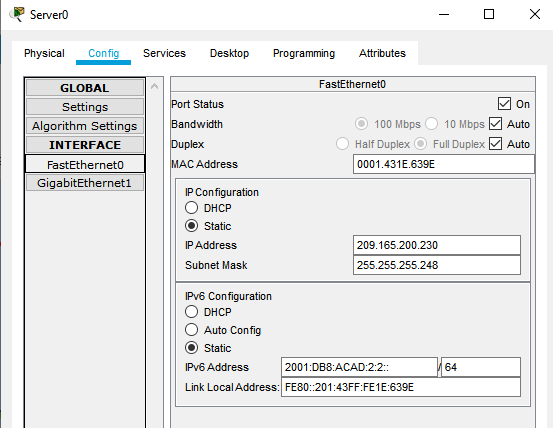
* Switch 1



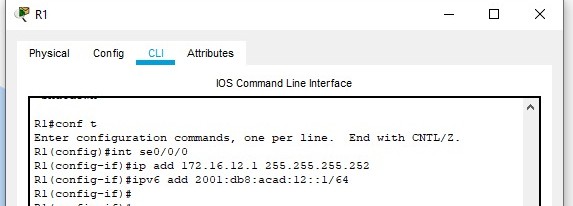


**Parte 2:** Configurar los parámetros básicos de los dispositivos

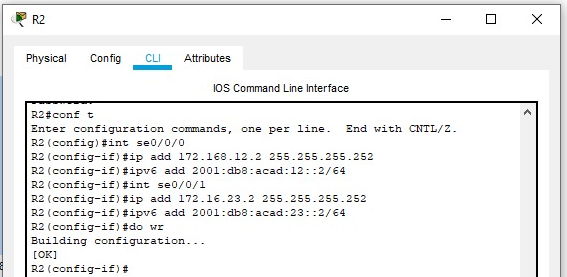
* Paso 1: Configurar el servidor de Internet



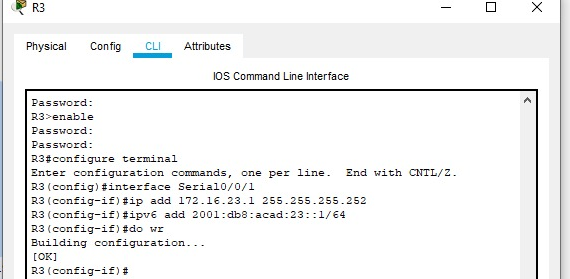
* Paso 2: Configurar R1



* Paso 3: Configurar R2

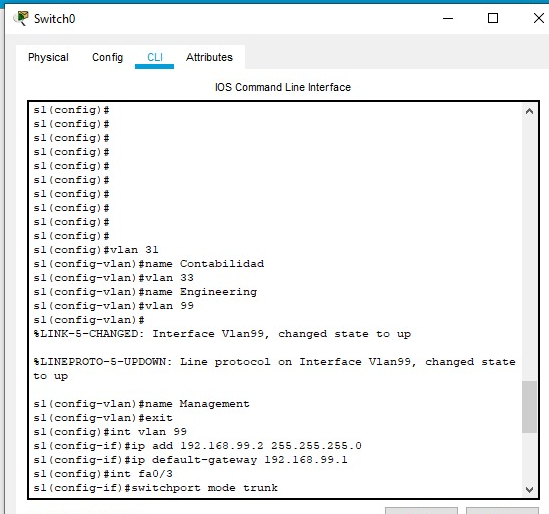


* Paso 4: Configure R3

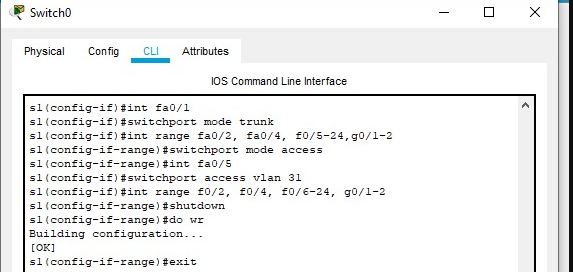


**Parte 3:** Configurar la seguridad del switch, las VLAN y el routing entre VLAN

* Paso 1: Configurar S1

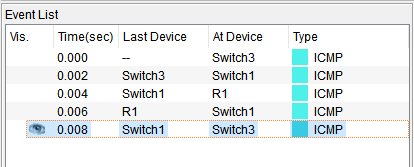


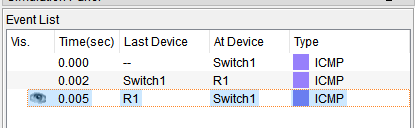
* Paso 2: Configurar el S3



**Paso 4:** Verificar la conectividad de la red

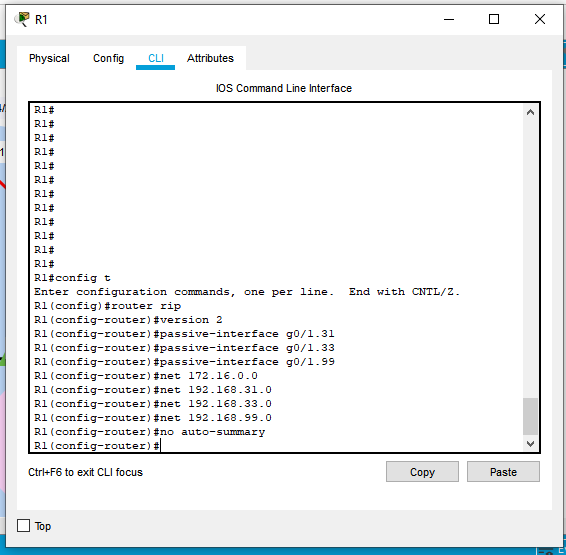
* Utilice el comando ping para probar la conectividad entre los switches y el R1.

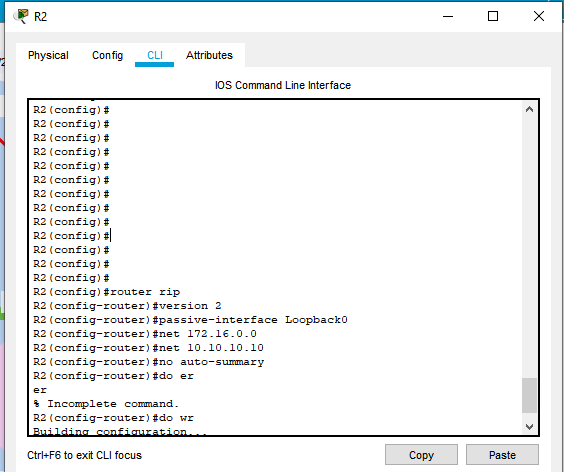


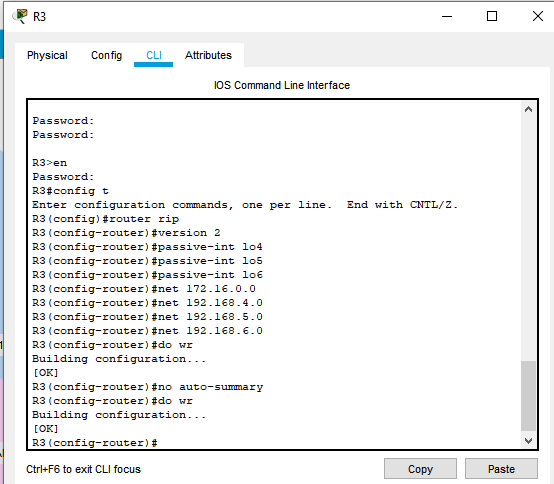


**Parte 4:** Configurar el protocolo de routing dinámico RIPv2

* Configurar el protocolo de routing dinámico RIPv2

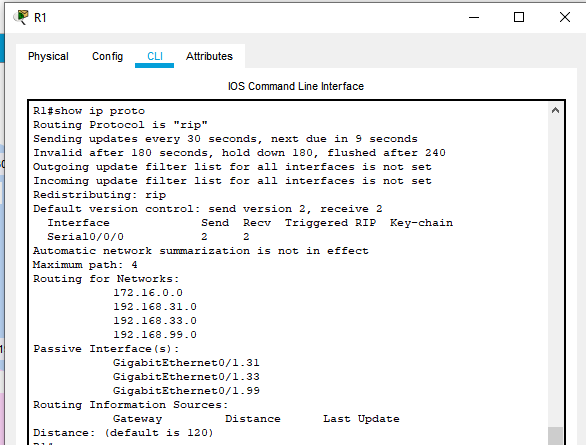


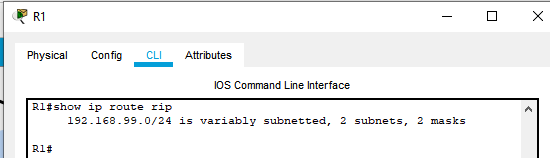




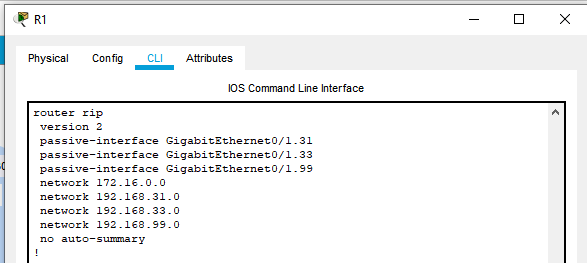
* Verifique la información de RIP

R1

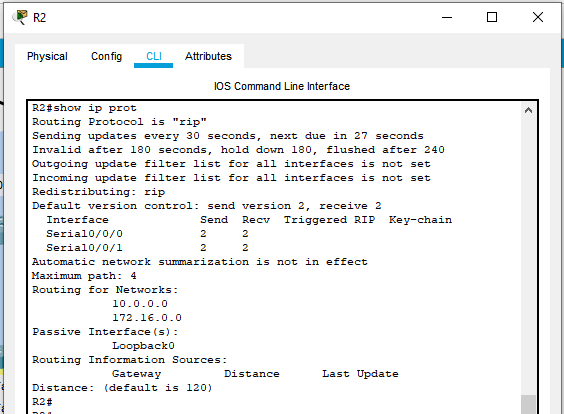


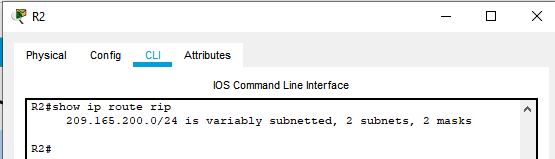


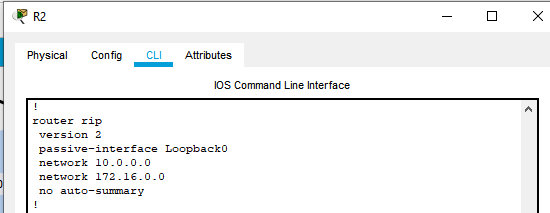
Show run



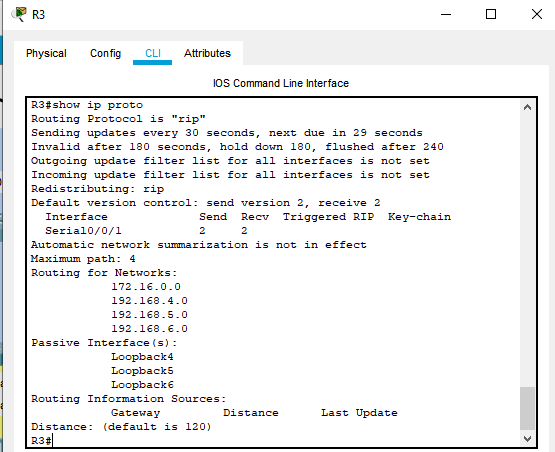
R2

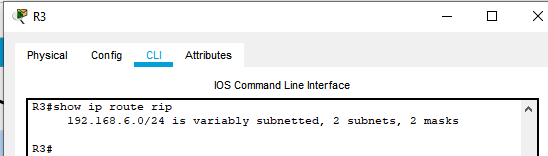




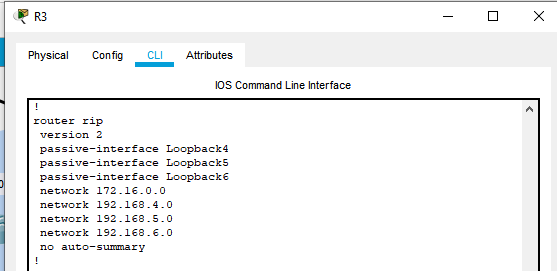


R3



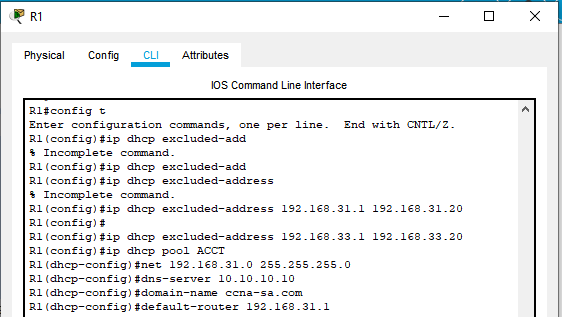
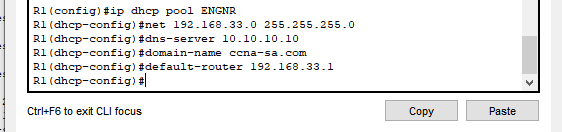


Show run R3

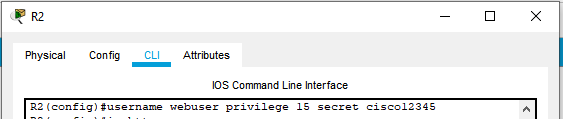


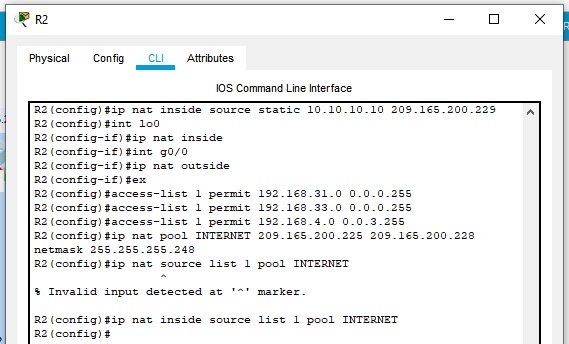
**Parte 5:** implementar DHCP y NAT para IPv4

Paso 1: Configurar el R1 como servidor de DHCP para las VLAN 31 y 33

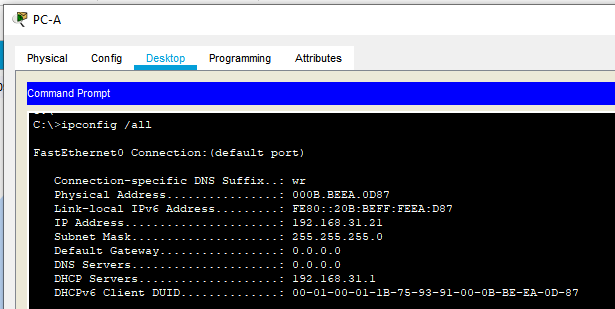
Paso 2: Configurar la NAT estática y dinámica en el R2



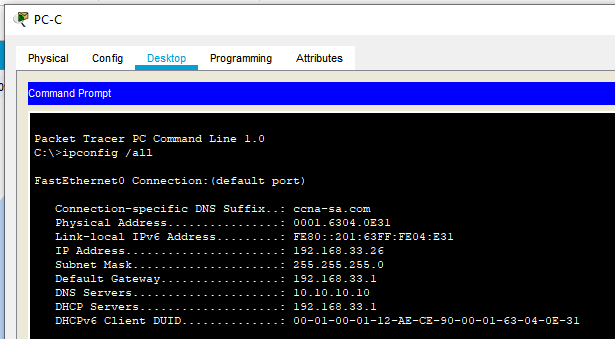


Paso 3: verificar el protocolo DHCP y la NAT estática.

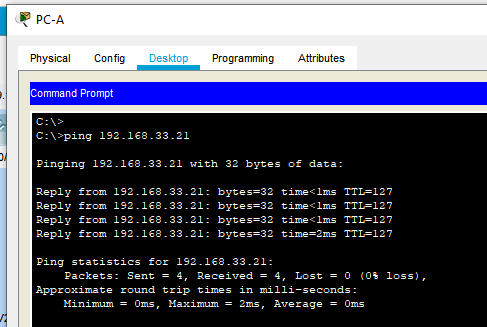
Verificación que la PC-A haya adquirido información de IP del servidor de DHCP



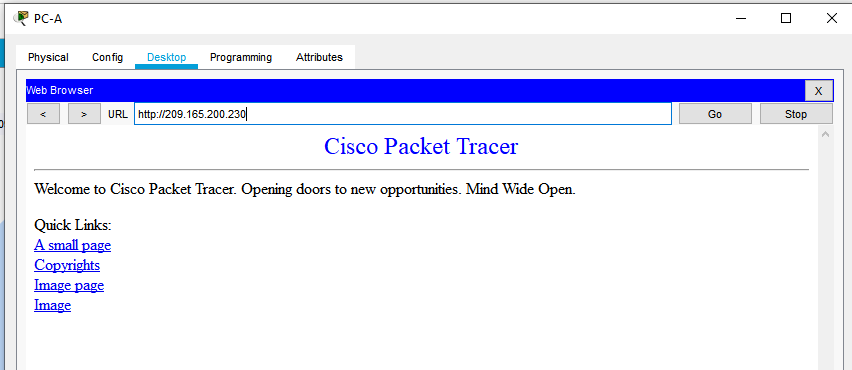
Verificación que la PC-C haya adquirido información de IP del servidor de DHCP



Verificación que la PC-A puede hacer ping a la PC-C

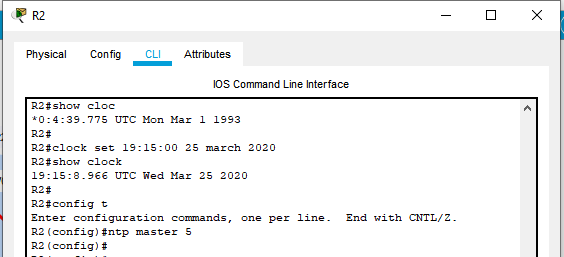


Utilizar un navegador web en la computadora de Internet para acceder al servidor web (209.165.200.229). Iniciar sesión con el nombre de usuario webuser y la contraseña cisco12345

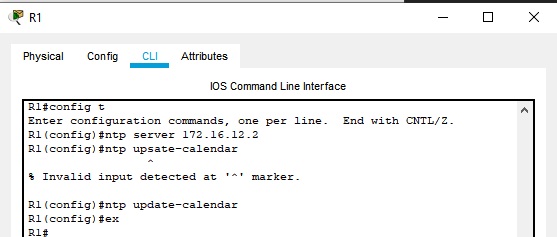


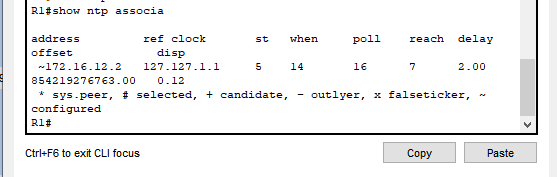
**Parte 6:** Configurar NTP

Ajustar la fecha y hora en R2, configurar R2 como un maestro NTP



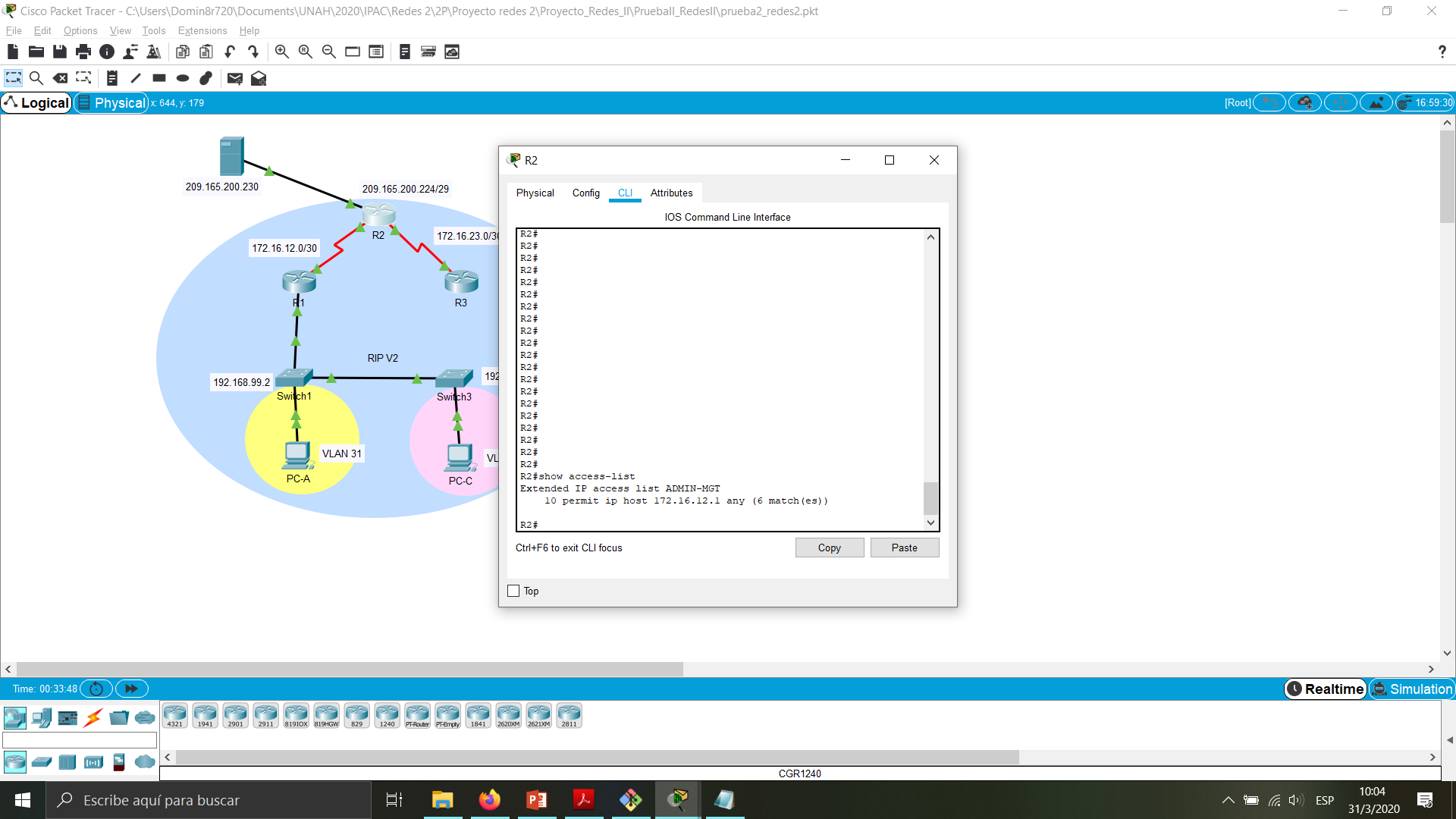
Configurar R1 como un cliente NTP, configure R1 para actualizaciones de calendario periódicas con hora NTP, verifique la configuración de NTP en R1.



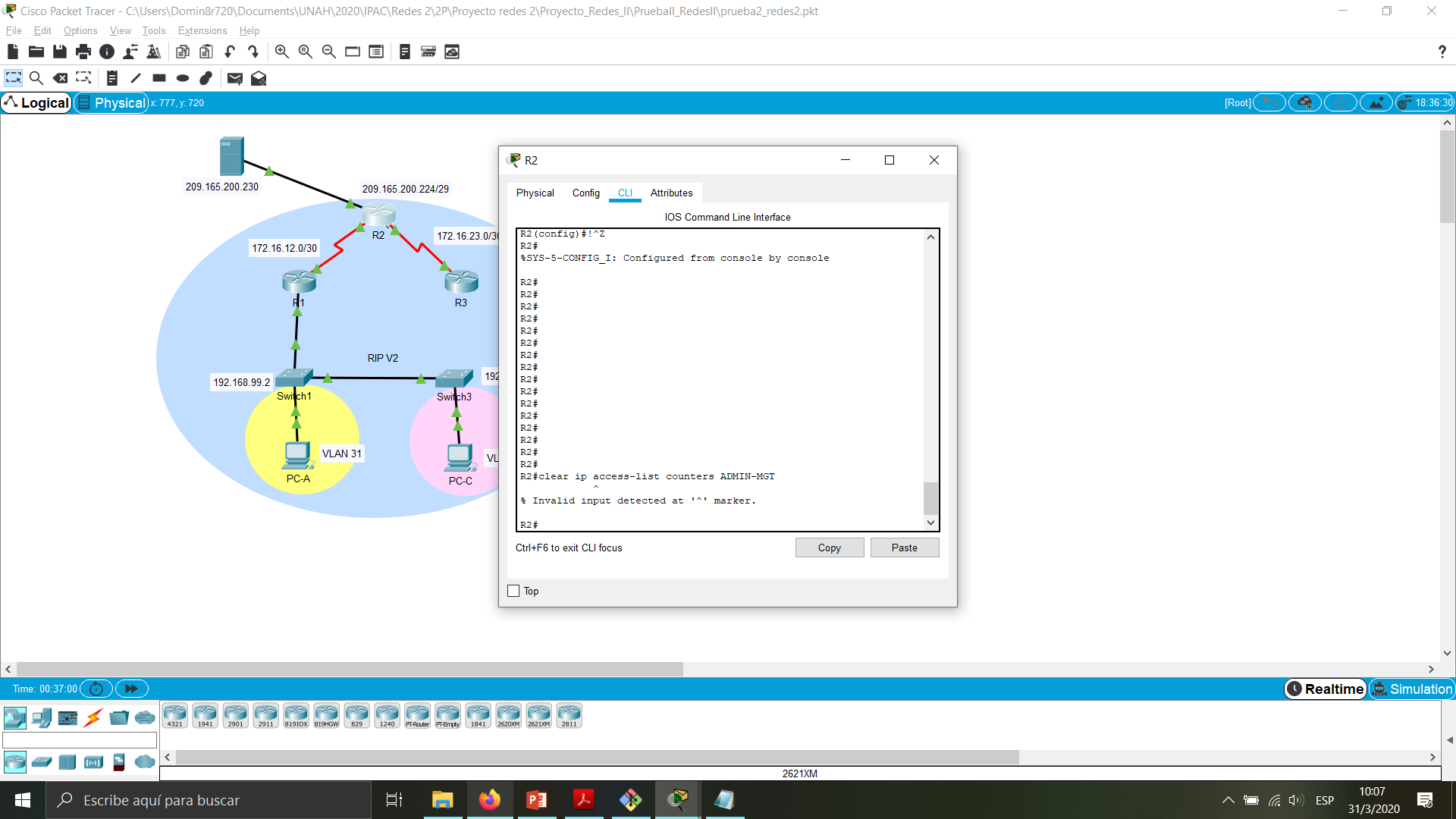


**Parte 7:** ejecución del los comandos:

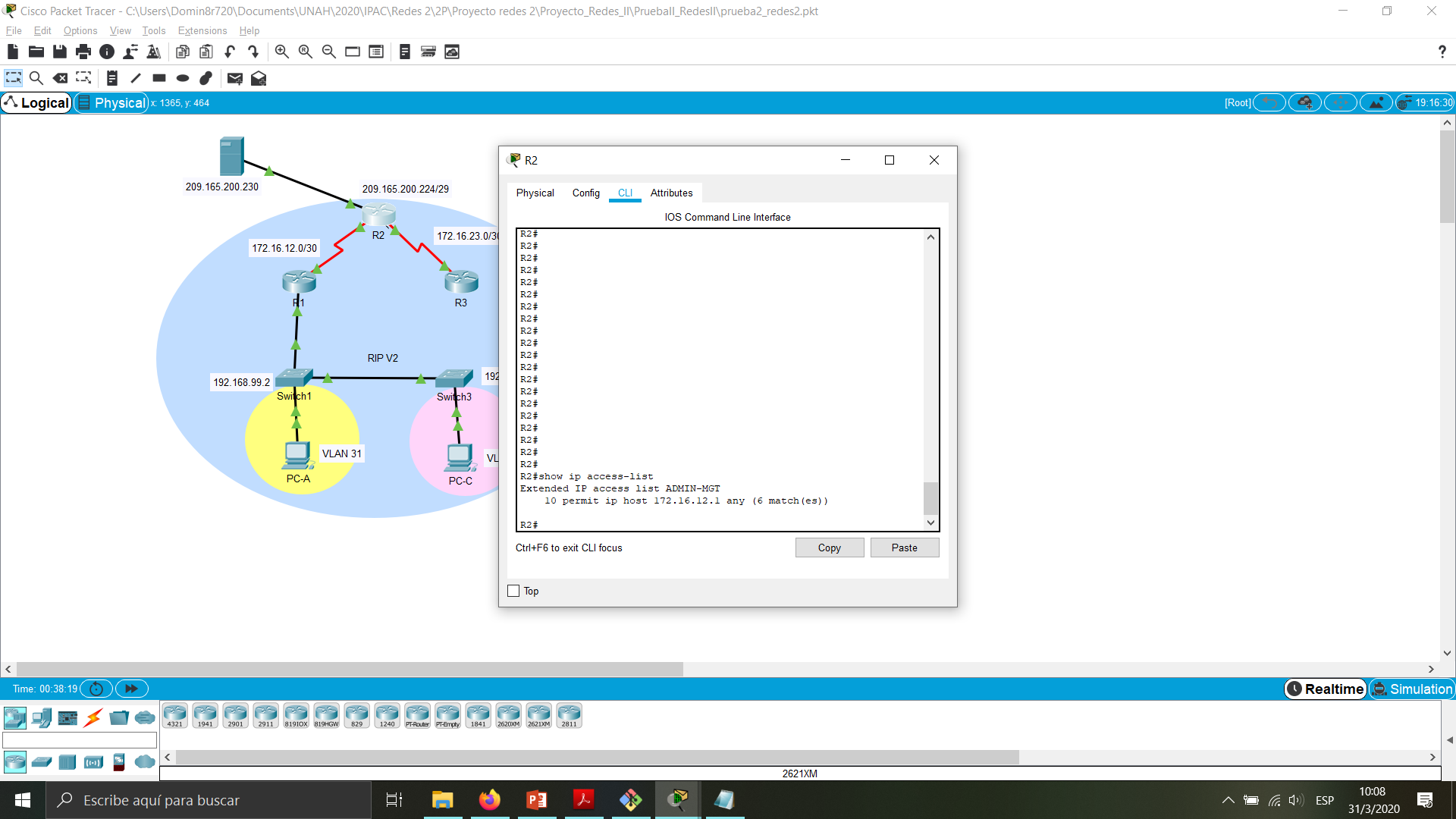
Show acces-list



Clear ip-access list counters ADMIN-MGT



Show ip access-list



Show ip nat translation

