ΔΙΚΤΥΑ ΥΠΟΛΟΓΙΣΤΩΝ

-***Κατσαρός Ανδρέας (1084522)***

ΑΚΑΔΗΜΑΙΚΟ ΕΤΟΣ: 2022-2023

—

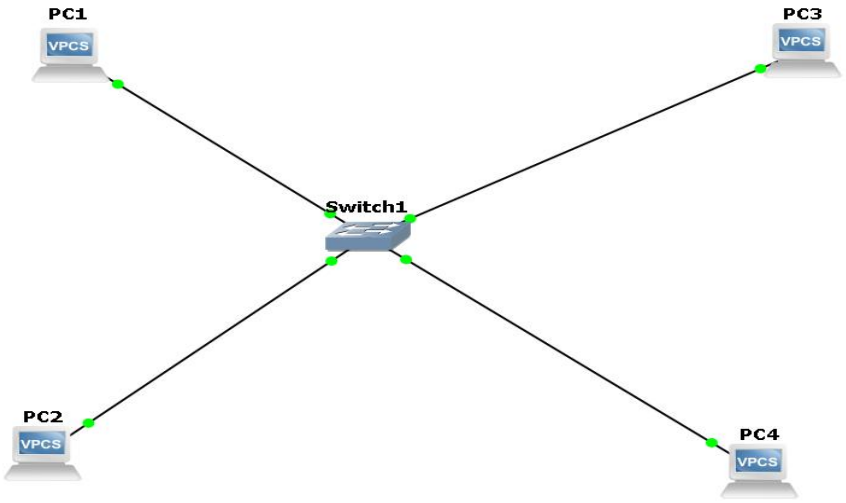
1η Εργασία - Εισαγωγή στη Χρήση GNS3

—

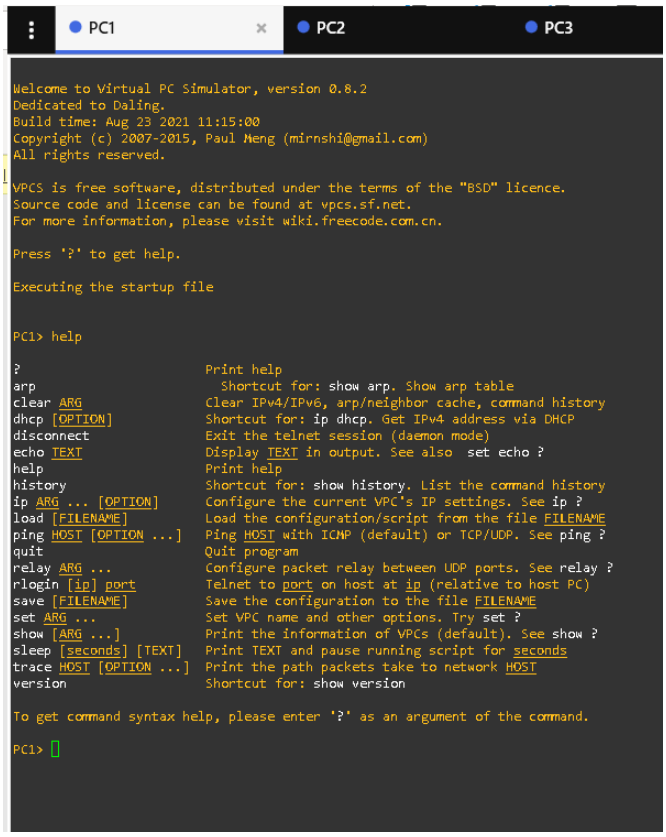
Κος Βλάχος

ΕΡΩΤΗΜΑΤΑ:

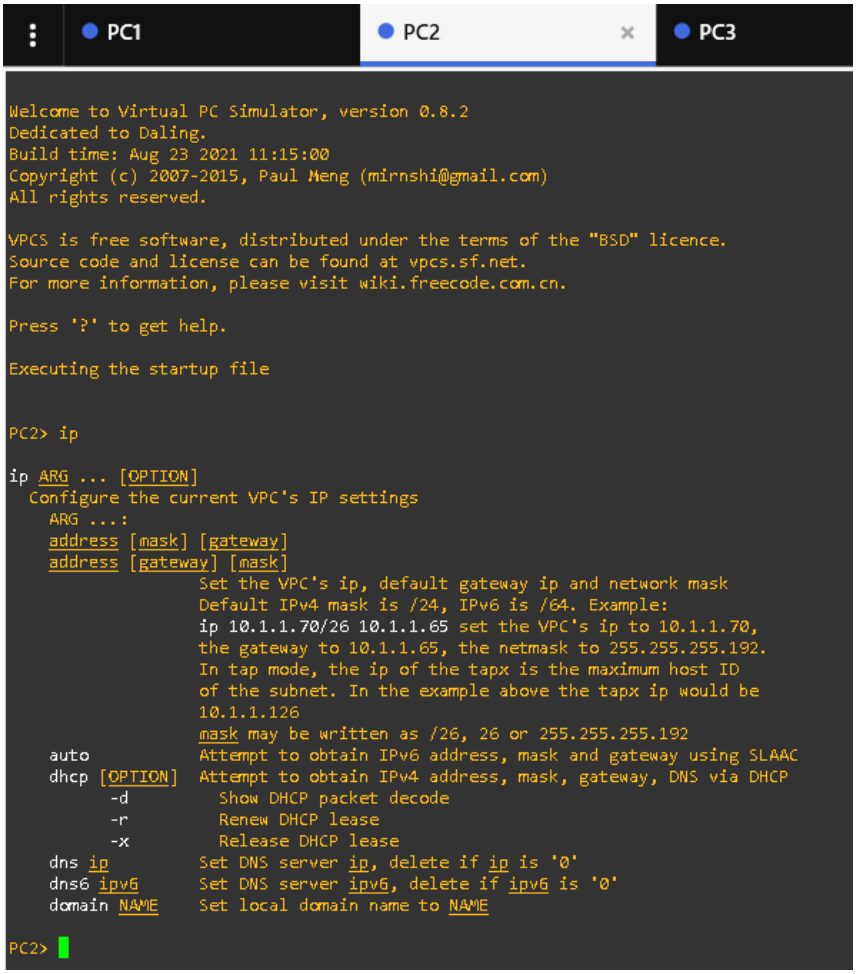
Τοπολογία:



1)Σε ένα εκ των PC εκτελέστε την εντολή help και δείτε όλη τη λίστα των υποστηριζόμενων εντολών:



2)Σε ένα εκ των PC εκτελέστε την εντολή ip και ελέγξετε τι παραμέτρους που χρειάζεται για να εκτελεστεί:



3)Αναθέστε IP διευθύνσεις στο range 192.168.1.0/24 σε κάθε PC. Ελέγξετε με show ip το αποτέλεσμα της ανάθεσης:

PC1: 192.168.1.1

```
PC1> ip 192.168.1.1
Checking for duplicate address...
PC1 : 192.168.1.1 255.255.255.0
```

PC2: 192.168.1.2

```
PC2>
PC2> ip 192.168.1.2
Checking for duplicate address...
PC2 : 192.168.1.2 255.255.255.0
```

PC3: 192.168.1.3

```
ip 192.168.1.3
Checking for duplicate address...
PC3 : 192.168.1.3 255.255.255.0
```

PC4: 192.168.1.4

```
PC4> ip 192.168.1.4
Checking for duplicate address...
PC4 : 192.168.1.4 255.255.255.0
```

4)Εκτελέστε από κάθε PC προς τα άλλα την εντολή ping για να ελέγξετε εάν οι υπολογιστές επικοινωνούν μεταξύ τους:

Από PC1:

```
PC1> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_seq=1 ttl=64 time=0.357 ms
84 bytes from 192.168.1.2 icmp_seq=2 ttl=64 time=0.465 ms
84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=0.472 ms
84 bytes from 192.168.1.2 icmp_seq=4 ttl=64 time=0.488 ms
84 bytes from 192.168.1.2 icmp_seq=5 ttl=64 time=0.494 ms

PC1> ping 192.168.1.3

84 bytes from 192.168.1.3 icmp_seq=1 ttl=64 time=0.286 ms
84 bytes from 192.168.1.3 icmp_seq=2 ttl=64 time=0.500 ms
84 bytes from 192.168.1.3 icmp_seq=3 ttl=64 time=0.529 ms
84 bytes from 192.168.1.3 icmp_seq=4 ttl=64 time=0.487 ms
84 bytes from 192.168.1.3 icmp_seq=5 ttl=64 time=0.530 ms

PC1> ping 192.168.1.4

84 bytes from 192.168.1.4 icmp_seq=1 ttl=64 time=0.520 ms
84 bytes from 192.168.1.4 icmp_seq=2 ttl=64 time=0.489 ms
84 bytes from 192.168.1.4 icmp_seq=3 ttl=64 time=0.374 ms
84 bytes from 192.168.1.4 icmp_seq=4 ttl=64 time=0.599 ms
84 bytes from 192.168.1.4 icmp_seq=5 ttl=64 time=0.368 ms
```

Από PC2:

```
PC2> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=64 time=0.398 ms
84 bytes from 192.168.1.1 icmp_seq=2 ttl=64 time=0.691 ms
84 bytes from 192.168.1.1 icmp_seq=3 ttl=64 time=0.505 ms
84 bytes from 192.168.1.1 icmp_seq=4 ttl=64 time=0.514 ms
84 bytes from 192.168.1.1 icmp_seq=5 ttl=64 time=0.577 ms

PC2> ping 192.168.1.3

84 bytes from 192.168.1.3 icmp_seq=1 ttl=64 time=0.526 ms
84 bytes from 192.168.1.3 icmp_seq=2 ttl=64 time=0.467 ms
84 bytes from 192.168.1.3 icmp_seq=3 ttl=64 time=0.507 ms
84 bytes from 192.168.1.3 icmp_seq=4 ttl=64 time=0.477 ms
84 bytes from 192.168.1.3 icmp_seq=5 ttl=64 time=0.535 ms

PC2> ping 192.168.1.4

84 bytes from 192.168.1.4 icmp_seq=1 ttl=64 time=0.240 ms
84 bytes from 192.168.1.4 icmp_seq=2 ttl=64 time=0.560 ms
84 bytes from 192.168.1.4 icmp_seq=3 ttl=64 time=0.551 ms
84 bytes from 192.168.1.4 icmp_seq=4 ttl=64 time=0.526 ms
84 bytes from 192.168.1.4 icmp_seq=5 ttl=64 time=0.483 ms
```

Από PC3:

```
PC3> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=64 time=0.239 ms
84 bytes from 192.168.1.1 icmp_seq=2 ttl=64 time=0.573 ms
84 bytes from 192.168.1.1 icmp_seq=3 ttl=64 time=0.527 ms
84 bytes from 192.168.1.1 icmp_seq=4 ttl=64 time=0.562 ms
84 bytes from 192.168.1.1 icmp_seq=5 ttl=64 time=0.527 ms

PC3> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_seq=1 ttl=64 time=0.449 ms
84 bytes from 192.168.1.2 icmp_seq=2 ttl=64 time=0.461 ms
84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=0.499 ms
84 bytes from 192.168.1.2 icmp_seq=4 ttl=64 time=0.548 ms
84 bytes from 192.168.1.2 icmp_seq=5 ttl=64 time=0.528 ms

PC3> ping 192.168.1.4

84 bytes from 192.168.1.4 icmp_seq=1 ttl=64 time=0.295 ms
84 bytes from 192.168.1.4 icmp_seq=2 ttl=64 time=0.510 ms
84 bytes from 192.168.1.4 icmp_seq=3 ttl=64 time=0.495 ms
84 bytes from 192.168.1.4 icmp_seq=4 ttl=64 time=0.675 ms
84 bytes from 192.168.1.4 icmp_seq=5 ttl=64 time=0.475 ms
```

Από PC4:

```
PC4> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=64 time=0.397 ms
84 bytes from 192.168.1.1 icmp_seq=2 ttl=64 time=0.539 ms
84 bytes from 192.168.1.1 icmp_seq=3 ttl=64 time=0.469 ms
84 bytes from 192.168.1.1 icmp_seq=4 ttl=64 time=0.542 ms
84 bytes from 192.168.1.1 icmp_seq=5 ttl=64 time=0.465 ms

PC4> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_seq=1 ttl=64 time=0.230 ms
84 bytes from 192.168.1.2 icmp_seq=2 ttl=64 time=0.343 ms
84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=0.566 ms
84 bytes from 192.168.1.2 icmp_seq=4 ttl=64 time=0.489 ms
84 bytes from 192.168.1.2 icmp_seq=5 ttl=64 time=0.488 ms

PC4> ping 192.168.1.3

84 bytes from 192.168.1.3 icmp_seq=1 ttl=64 time=0.529 ms
84 bytes from 192.168.1.3 icmp_seq=2 ttl=64 time=0.730 ms
84 bytes from 192.168.1.3 icmp_seq=3 ttl=64 time=0.538 ms
84 bytes from 192.168.1.3 icmp_seq=4 ttl=64 time=0.429 ms
84 bytes from 192.168.1.3 icmp_seq=5 ttl=64 time=0.617 ms
```

ΤΕΛΟΣ ΑΝΑΦΟΡΑΣ