







# Resumo de Comandos de Configuração de Routers e Switches Cisco Utilizados no CCNA Routing and Switching

Versão 21

**ESTSetúbal** 

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# 1. TRUQUES E DICAS

Escape Sequence: <*Ctrl*><*Shift*><*6*> <*x*>

Guardar a configuração dos equipamento na memória não-volátil

```
R1# copy startup-config running-config ou R1# wr
```

Ver s endereços IP e o estado das interfaces

```
\text{R1}\# show ip interface brief ou R1# sh ip int bri
```

Desativar o serviço de procura remota de comandos desconhecidos

```
R1(config) # no ip domain lookup
```

Resolver o erro "%Error opening tftp://255.255.255/network-confg (Socket error)" no arranque dos routers sem startup-config

```
R1(config) # no service config
```

Ver a descrição das interfaces

```
R1# show interface description
```

Dar um comando no modo EXEC a partir de qualquer nível de configuração

```
R1(config-if) # do show ip int brief
```

Substituir a running-config pela configuração de um ficheiro na flash

```
R1# configure replace flash:file
```

Num sh run de diversos écrans, ir para a secção desejada

```
/interface
```

Filtragem do conteúdo mostrado

R1# show run | [section|include] interface

Agendar um Reload em 3 minutes (útil para a realização de alterações remotas)

R1# reload in 3

Cancelar um Reload agendado

R1# reload cancel

# 2. Portos de Alguns dos Serviços mais Comuns

Serviço	Sigla	Protoc.	Porto
File Transfer Protocol	FTP	TCP	21
Secure Shell	SSH	TCP	22
Telnet	TELNET	TCP	23
Simple Mail Transfer Protocol	SMTP	TCP	25
Domain Name Server	DNS	UDP	53
Trivial File Transfer Protocol	TFTP	UDP	69
Protocolo HTTP	HTTP	TCP	80
Simple Network Management Protocol	SNMP	UDP	161/162
Protocolo de Routing RIP	RIP	UDP	520
DHCP (protocolo Bootp)	ВООТР	UDP	67/68

# 3. SEQUÊNCIAS DE TECLAS ÚTEIS NO CLI

Teclas	Função
^a	Move o cursor para o início da linha
^e	Move o cursor para o fim da linha
^r	Rescreve a linha
^u	Apaga a linha
^w	Apaga uma palavra
۸z	Salta para o modo privilegiado, executando o comando actual
^c	Salta para o modo privilegiado, sem executar o comando actual

## 4. ROUTERS - GERAL

```
Configuração das interfaces
```

```
R1(config) # int s0
```

R1(config-if) # ip address 192.168.1.1 255.255.255.0

R1(config-if)# clock rate 56000

R1(config-if) # description Rede de Gestão

R1(config-if) # no shutdown

Ver se uma interface série é DCE ou DTE, e se tem relógio

R1# show controllers s0

Desactivar o teste de hosts ligados a uma porta Ethernet

R1(config-if) # no keepalives

#### Configurar um Servidor de DNS

```
R1(config)# ip name-server ip_address (garantir ligação ao server)
R1(config)# ip domain-lookup
```

## 5. ROUTERS – PASSWORDS DE ACESSO

```
Password da consola
      R1(config) # line console 0
      R1(config-line) # password cisco
      R1(config-line) # login
Password do modo previligiado
      R1(config) # enable password class
      R1(config) # enable secret class
6. ROUTER - ACESSO REMOTO
[Telnet]
      R1(config)# line vty 0 4
      R1(config-line) # password cisco
      R1(config-line) # login
      R1(config-line) # exec-timeout 3
      R1(config-line)# exit
      R1(config) # service tcp-keepalives-in
[SSH]
      R1(config) # ip domain-name ips.pt
      R1(config) # username admin secret cisco
      R1(config) # crypto key generate rsa general-keys modulus 1024
      Switch - SW1(config) # crypto key generate rsa modulus 1024
      R1(config) # ip ssh time-out 15
      R1(config) # ip ssh authrntication-retries 2
      R1(config) # line vty 0 4
      R1(config-line) # login local
      R1(config-line) # transport input ssh
Ver a configuração de SSH
      R1# show ip ssh
```

## 7. ROUTERS – MENSAGEM DE LOGIN

#### 8. ROUTERS – ROTAS ESTÁTICAS

```
Indicar o caminho para a rede remota 192.168.1.0/24
      R1 (config) # ip route 192.168.1.0 255.255.255.0 [20.2.2.18 | F0/0] [AD]

Definir uma rota por omissão
      R1 (config) # ip route 0.0.0.0 0.0.0.0 [20.2.2.18 | s0]
```

#### 9. ROUTERS - RIP

```
Configurar o protocolo
    R1(config) # router rip
    R1(config-router) # network 192.168.2.0
```

```
Para uma interface não anunciar rotas
      R1(config-router) # passive-interface s0
Propagar Rotas Estáticas por RIP
      R1(config-router) # redistribute static
Propagar a rota por omissão
      R1(config-router) # default-information originate
Ver a base de dados do RIP
      R1# show ip rip database
Autenticação
      R1(config) # key chain key-chain-name
      R1(config-keychain) # key keyword
      R1(config-keychain-key) # key-string key-string
      R1(config-keychain-key)# exit
      R1(config) # int interface-id
      R1(config-if) # ip rip authentication mode md5
      R1(config-if) # ip rip authentication key-chain key-chain-name
Apagar as rotas aprendidas dinamicamente
      R1# clear ip route *
10.ROUTERS - IGRP
Configurar o protocolo
      R1(config) # router igrp [AS]
      R1(config-router) # network 192.168.2.0
11. ROUTERS - EIGRP
Incluir sub redes
      R1(config-router) # network 192.168.10.4 0.0.0.3
Desligar a sumarização automática de rotas
      R1(config-router) # no auto-summary
Desligar as mensgens de warning
      Router(config-router) # no eigrp log-neighbor-warnings
Ver a configuração do eigrp
      R1# show ip eigrp interfaces [interface-id] [AS]
Ver a vizinhança de Routers
      R1# show ip eigrp neighbors [interface-id]
Ver as rotas de backup
      R1# show ip eigrp topology [rede] [all-links] [AS]
Ver os pacotes EIGRP recebidos e enviados
      R1# show ip eigrp trafic [AS]
Elimina os vizinhos da tabela de vizinhança
      R1# clear ip eigrp neighbors
Propagar rotas estáticas e rotas por onissão
      R1(config-router) # redistribute [rip] [static] [ospf]
Configurar a temporização de hello
      R1(config-if) # ip hello-interval eigrp AS seconds
```

```
Configurar a temporização de hold-time
      R1(config-if) # ip hold-time eigrp AS seconds
Configurar a largura de banda máxima utilizada pelo EIGRP
      R1(config-if) # ip bandwidth-percent eigrp AS 50
Sumarização Manual
      R1(config-if)# ip summary-address eigrp AS network-address subnet-
                        mask
Para verificar a largura de banda actual utilizar o comando
      R1# show interface
Alterar a largura de banda de uma interface
      R1(config-if) # bandwidth kilobits
Alterar os pesos da fórmula para o cálculo da métrica
      R1(config-router) # metric weighth tos k1 k2 k3 k4 k5
Permitir balanceamento de tráfego por links de custo desigual (até 1 para 4 neste exemplo)
      R1(config-router) # variance 4
      R1(config-router) # clear ip eigrp neighbors
Autenticação de links
      R1(config) # key chain EIGRP KEY
      R1(config-keychain) # key 1
      R1(config-keychain-key)# key-string password
      R1(config-keychain-key)# exit
      R1(config-keychain) # exit
      R1(config)# interface F0/0
      R1(config-if) # ip authentication mode eigrp 1 md5
      R1(config-if)# ip authentication key-chain eigrp 1 EIGRP KEY
12.ROUTERS - OSPF
Configurar o protocolo OSPF
      R1(config) # router ospf 1
      R1(config-router) # network 192.168.1.128 0.0.0.63 area 0
      R1(config-router) # network 192.168.15.0 0.0.0.3 area 0
Configurar o router ID
      R1 (config-router) # ospf router-id 192.168.1.1
Avisos de alteração da configuração de Router's vizinhos
      R1(config-router) # log-adjacency-changes
Criar interfaces de loopback
      R1(config)# interface loopback 0
      R1(config-if)# ip address 192.168.31.11 255.255.255.255
Propagar a rota por omissão por OSPF
      R1(config-router) # default-information originate
Propagar rotas de outros protocolos/rotas estáticas
      R1(config-router) # redistribute [rip | static | eigrp | ospf]
      R1(config-router) # redistribute eigrp [metric 10] [metric-type 1 | 2 ]
             1 - custom=metric+sum cost link(tipo E1); 2 - Fixo (tipo E2)
Configurar a prioridade do OSPF numa interface
      London(config-if) # ip ospf priority 50 (0 não entra na eleição)
```

```
Configurar a bandwidth de referência para o cálculo da métrica
      R1(config-router) # auto-cost reference-bandwidth 1000 (100G/speed)
Configurar a temporização de hello
      R1(config-if)# ip ospf hello-interval seconds
Configurar a temporização de dead
      R1(config-if)# ip ospf dead-interval seconds
Visualização de dados relativos ao processo OSPF
      R1# show ip ospf
      R1# show ip ospf neighbour
      R1# show ip ospf database
      R1# show ip ospf interface F0/0
Cifrar tráfego de Routing
      R1(config) # router ospf process-id
      R1(config-router) # area 0 authentication message-digest
      R1(config)# interface F0
      R1(config-if) # ip ospf message-digest-key 1 md5 0 password
      R1(config-if)# ip ospf authentication message-digest
Apagar todos os dados do processo OSPF
      R1# clear ip ospf process
13. ROUTERS – OSPF MULTI-ÁREA
Configurar o protocolo OSPF (Router ABR)
      R1(config) # router ospf 1
      R1(config-router) # network 10.0.0.0 0.0.0.255 area 0
      R1(config-router) # network 10.20.3.0 0.0.0.255 area 20
Sumarização das redes da área 1 num ABR
      R1(config-router) # area 1 range 192.168.0.0 255.255.0.0
Configurar uma área do tipo stub
      Router ABR
      R2(config) # router ospf 1
      R2(config) # area 20 stub no-summary
      Routers Internos
      R4(config)# router ospf 1
R4(config)# area 20 stub
14. ROUTERS - ACCESS CONTROL LISTS (ACL'S)
Colocar uma ACL numa interface
      R1(config-if) # ip access-group 100 {in|out}
Colocar uma ACL na linha VTY
      R1(config-line) # access-class 10 in
ACL's Standart
      R1(config) # access-list 1 {permit|deny} 172.30.16.0 0.0.0.255
      R1(config) # access-list 1 {permit|deny} any
      R1(config) # access-list 1 {permit|deny} host 172.30.16.29
ACL's Estendidas
      R1(config) # access-list 100 permit {ip|icmp} host 172.30.16.0 host
                     172.30.16.0
```

```
\texttt{R1}\,(\texttt{config})\,\#\,\,\,\textbf{access-list}\,\,\,\textbf{100}\,\,\,\textbf{permit}\,\,\,\{\textbf{tcp|udp}\}\,\,\,\textbf{host}\,\,\,\textbf{172.30.16.0}\,\,\,\textbf{host}
                      172.31.16.0 {lt|gt|eq|neq|range} port
                      access-list 100 permit tcp host
       R1(config)#
                                                                  172.30.16.0 host
                      172.31.16.0 eq 80 established
ACL's identificadas pelo nome (CISCO IOS 11.2 ou superior)
       R1(config) # ip access-list {standart|extended} ACL Name
Apagar a linha 30 numa Named Access-List
       R1(config) # no 30
Renumerar as linas de uma Named Access-List
       R1(config) # ip access-list resequence ACL NAME 1alinha Incremento
15. ROUTERS – NAT E PAT
Definição de uma pilha de endereços IP utilizáveis
       R1(config) # ip nat pool public-access 199.99.9.40 199.99.9.62
                     netmask 255.255.255.224
Criação de uma ACL para indicar os IP's a serem traduzidos (NAT e PAT dinâmicos)
       R1(config) # access-list 1 permit 10.10.10.0 0.0.0.255
Definição do tipo de interface:
       R1(config) # interface f0
       R1(config-if) # ip nat inside (dado nas sub-interfaces, se existirem)
       R1(config-if) # interface s0
      R1(config-if) # ip nat outside
Tradução tipo
     Estática: R1(config)# ip nat inside source static 10.10.10.10 199.99.9.33
     NAT:
              R1(config)# ip nat inside source list 1 pool public-access
     PAT:
              R1(config) # ip nat inside source list 1 interface serial 0
                           overload
Apagar todas transações em utilização
       Gateway# clear ip nat translation *
16. ROUTERS – SERVIDOR DE DHCP
Excluir uma gama de endereços
      R1(config)# ip dhcp excluded-address 172.16.12.1 172.16.12.11
Configurar o serviço de DHCP
       R1(config) # ip dhcp pool campus
       R1(dhcp-config) # network 172.16.12.0 255.255.255.0
       R1 (dhcp-config) # default-router 172.16.12.1
       Rldhcp-config) # dns-server 172.16.1.2
       R1(dhcp-config) # domain-name foo.com
       R1(dhcp-config) # netbios-name-server 172.16.1.10
Encaminhar os broadcasts como unicast para um IP específico
       R1(config) # interface f0/0
       R1(config-if) # ip helper-address 172.16.12.1
Ver os endereços atribuidos pelo serviço de DHCP
      R1# show ip dhcp binding
```

#### 17. ROUTERS – PPP

```
Compressão de dados
      R1(config-if) # encapsulation ppp
      R1(config-if) # compress [predictor|stac]
Monitorização dos dados descartados na ligação:
      R1(config-if) # encapsulation ppp
      R1(config-if) # ppp quality percentage
Balanceamento de carga através de várias ligações:
      R1(config-if)# encapsulation ppp
      R1(config-if)# ppp multilink
Autenticação PAP
      R1(config-if)# encapsulation ppp
      R1(config-if)# ppp authentication PAP
      R1(config-if)# ppp pap sent-username hostname_do_outro_router
      password sameone
Autenticação CHAP
      R1(config) # username hostname do outro Router password sameone
      R1(config-if) # encapsulation ppp
      R1(config-if) # ppp authentication CHAP
18. ROUTERS – FRAME-RELAY
Configuração base
      R1(config) # interface serial 0
      R1(config-if)# encapsulation frame-relay ietf
      R1(config-if) # no frame-relay inverse-arp
      R1(config-if)# frame-relay map ip 192.168.1.2 102 ietf broadcast
                              (Mapeamente IP ↔ DLCI Manual)
Configuração de uma ligação router to frame relay network
      R1(config) # interface serial 0
      R1(config-if) # encapsulation frame-relay ietf
      R1(config-if) # ip address 192.168.1.1 255.255.255.0
      R1(config-if) # no shutdown
      R1(config-if) # no keepalive
Configuração de uma ligação router to frame relay network, utilizando sub interfaces
      R1(config) # interface serial 0
      R1(config-if) # encapsulation frame-relay ietf
      R1(config-if)# no keepalive
      R1(config-if) # no shutdown
      R1(config-if)# interface serial 0.102 point-to-point
      R1(config-if) # ip address 192.168.4.1 255.255.255.0
      R1(config-if)# frame-relay interface-dlci 102
Ver a configuração do Frame-Relay
      R1# show frame-relay lmi
      R1# show frame-relay map
      R1# show frame-relay pvc
Switch Frame-Relay
      R1(config) # frame-relay switching
      R1(config) # interface s0
      R1(config-if) # no ip address
```

```
R1(config-if)# encapsulation frame-relay ietf
R1(config-if)# frame-relay lmi-type ansi
R1(config-if)# frame-relay intf-type dce
R1(config-if)# frame-relay route 100 interface s1 200
R1(config-if)# frame-relay route 101 interface s1 201
R1(config-if)# clockrate 56000
R1(config-if)# no keepalive
R1(config-if)# no shutdown
```

# 19. ROUTERS – SERVIDOR SNMP

```
Configuração de senhas de leitura e de leitura/escrita
R1 (config) # snmp-server community string ro (só leitura)
R1 (config) # snmp-server community string rw (leitura e escrita)

Contactos do gestor do sistema
R1 (config) # snmp-server location text
R1 (config) # snmp-server contact text
```

#### 20. ROUTERS – CLIENTE DNS

```
Configuração de senhas de leitura e de leitura/escrita

R1 (config) # ip name-server 213.228.128.99

R1 (config) # ip domain lookup
```

# 21. ROUTERS - CISCO DISCOVERY PROTOCOL (CDP)

```
Ver informações sobre os equipamento vizinhos
R1# show cdp neighbors [detail]

Desabilitar o CDP de forma global
R1 (config) # no cdp run

Desabilitar o CDP numa interface
R1 (config-if) # no cdp enable
```

# 22. ROUTERS – DESLIGAR SERVICOS NÃO UTILIZADOS

```
R1(config) # no service tcp-small-servers
R1(config) # no service udp-small-servers
R1(config) # no ip bootp server
R1(config) # no boot network
R1(config) # no service finger
R1(config) # no ip finger
R1(config) # no ip http server
R1(config) # no snmp-server
R1(config) # no cdp run
R1(config) # no service config
R1(config) # no ip source-route
R1(config) # no ip classless
R1(config) # no ip directed-broadcast
R1(config) # no ip proxy-arp
R1(config) # no snmp-server
R1(config) # no ip domain lookup
```

# 23. SWITCHES - GERAL

Recuperação de passwords

Ligue o switch mantendo pressionado o botão "MODE" na frente.

```
Dê os comandos:
          flash init
          load helper
          dir flash:
          rename flash:config.text flash:config.old
          boot
Configurar a password de consola
      SW1(config)# line con 0
      SW1(config-line) # password cisco
      SW1(config-line) # login
Configurar a password de telnet
      SW1(config) # line vty 0 15
      SW1(config-line)# password cisco
      SW1(config-line) # login
Configurar a password do modo privilegiado
      SW1(config)# enable password cisco
                                                 011
      SW1(config)# enable secret class
Configurar o endereço IP de gestão
      SW1(config)# interface VLAN 1
      SW1(config-if) # ip address 192.168.1.2 255.255.255.0
      SW1(config-if) # no shut
      SW1(config-if)# exit
      SW1(config) # ip default-gateway 192.168.1.1
Apagar a Tabela de Endereços MAC
      SW1# clear mac-address-table dynamic
24. SWITCHES – SPANNING-TREE (STP)
Mudar a prioridade do switch para garantir a eleição da Root Bridge no PVST
       SW1 (config) # spanning-tree vlan 10 priority 4096 ou (múltiplos de 4096)
      SW1(config) # spanning-tree vlan root [primary|secondary] [diameter 5]
Alterado o custo STP de uma interface
      SW1(config-if) # spanning-tree cost 25
Alterado a prioridade de uma interface
      SW1(config-if) # spanning-tree port-priority 32 (128 por omissão)
Configurar o mode de spaning-tree per VLAN rápido
      SW1(config)# spanning-tree mode rapid-pvst
      SW1(config) # spanning-tree extended system-id
Configurar um porto de acesso para ser do tipo Portfast
      SW1(config-if)# spanning-tree portfast
Configure o switch para todos as portas de acesso terem o portfast ligado
      SW1(config-if)# spanning-tree portfast default
Ver o estado do protocolo, da root bridge, do tipo de portos STP, etc.
       SW1# show spanning-tree [vlan vlan-id] [detail]
25. SWITCHES – PORT SECURITY
Liga a funcionalidade
```

SW1(config-if)# switchport port-security

```
Define o número máximo de endeços MAC por porta
      SW1 (config-if) # switchport port-security maximum 20
Define a ação a ser tomada
      SW1(config-if) #switchport port-security violation
                                                                     protect
                     restrict | shutdown }
                     Protect - Evita a passagem dos pacotes
                     Restrict - Evita a passagem dos pacotes e faz log
Define o tempo de vigência da limitação da porta
      SW1(config)# errdisable recovery cause psecure-violation
      SW1(config)# errdisable recovery interval 900
Configura a porta para funcionar com um endereço MAC dado
      SW1(config-if) # switchport port-security mac-address 0000.02000.0004
A porta apreende dinamicamente qual o endereço autorizado
      SW1 (config-if) # switchport port-security mac-address sticky
Ver o estado do port security das portas
      SW1# show port-security {interface f0/10}
26. SWITCHES – DHCP SNOOPING
      SW1(config) # ip dhcp snooping {vlan 1,2}
      ! Todas as portas ficam não confiáveis
      SW1 (config) # int f0/24
      SW1(config-if)# ip dhcp snooping trust
      ! Permite-se que esta porta deixa passar os pacotes de DHCP Offer
27. SWITCHES - VLAN'S
Ver as VLANs Configuradas
     SW1# show vlan
     SW1# show vlan id 2
     SW1# show vlan name VLAN2
     SW1# show interface F0/1 switchport
     SW1# show interface VLAN 1
Criar VLANs
     SW1# configure terminal
     SW1(config) # vlan 2
     SW1(config-vlan)# name Laboratorio
     SW1(config-vlan)# ^Z
Atribuir a Porta F0/2 a uma VLAN
     SW1(config)# interface fastethernet 0/2
     SW1(config-if)# switchport mode access
     SW1(config-if) # switchport access vlan 2
Atribuir as Portas F0/1 a F0/20 à VLAN 10
     SW1 (config) # interface range f0/1 - f0/20 (ou f0/1 - 20)
     SW1(config-if-range)# switchport mode access
     SW1(config-if-range) # switchport access vlan 10
Configurar uma porta para dados (VLAN10) e VoiP (VLAN20)
     SW1(config) # interface f0/1
     SW1(config-if) # mls qos trust cos
     SW1(config-if) # switchport voice vlan 20
     SW1(config-if) # switchport mode access
```

```
SW1(config-if)# switchport access vlan 10
Configurar uma porta F0/1 como Trunk
     SW1(config) # interface fastethernet 0/1
     SW1(config-if)# switchport mode trunk
Ver os trunks configurados
     SW1# show interface trunk
Configurar Sub-Interfaces de um Router para se ligarem a VLAN 10 de Swtch's (Trunk Links)
     R1(config) # interface F0/0
     R1(config-if) # no shutdown
     R1(config-if) # interface F0/0.10
     R1(config-subif) # encapsulation dot1q 10 [native]
     R1(config-subif) # ip address 192.168.1.1 255.255.255.0
28. SWITCHES - VTP
Configurar do VTP num Switch
     SW1(config)# vtp mode {server|client|transparent}
     SW1(config) # vtp domain lab123
     SW1(config) # vtp password cisco
     SW1(config) # vtp version [ 1 | 2 ]
Ver a configuração do VTP num Switch
     SW1# show vtp status
Activar a configuração dos trunks para não passarem tráfego de VLANs não usadas (só no servidor)
     SW1(config) # vtp pruning
```

# ANEXO – MAPA PARA SUBDIVISÃO DE UMA CLASSE C

Netmask 128 192 224 240 248 252 WildCard 127 63 31 15 7 3  .0 (1-14)	Nº Hosts	126	62	30	14	6	2	
MildCard   127   63   31   15   7   3   3   3   15   7   3   3   3   3   15   7   7   3   3   3   3   3   1   5   7   7   3   3   3   3   3   3   3   3		/25	/26	/27	/28	/29	/30	
.0 (1-126)  .0 (1-14)  .0 (1-14)  .0 (1-14)  .0 (1-14)  .0 (1-14)  .0 (1-14)  .16 (17-22)  .16 (17-12)  .16 (17-22)  .24 (25-30)  .24 (25-20)  .24 (25-20)  .24 (25-20)  .24 (25-20)  .24 (25-20)  .24 (25-20)  .24 (25-20)  .24 (25-20)  .26 (	inetmask	128	192	224	240	248	252	
.0 (1-30)  .0 (1-30)  .0 (1-14)  .0 (1-6)  .0 (1-6)  .16 (17-20)  .16 (17-30)  .16 (17-20)  .16 (17-30)  .16 (17-20)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .25 (23-3)  .35 (37-39)  .40 (42-46)  .40 (41-42)  .44 (44-50)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .55 (57-52)  .56 (57-52)  .57 (57-78)  .77 (77-78)  .77 (77-78)  .77 (77-78)  .78 (17-78)  .79 (17-78)  .80 (81-86)  .88 (89-94)  .96 (97-126)  .96 (97-126)  .112 (113-126)  .128 (129-158)  .128 (129-158)  .128 (129-158)  .144 (145-150)  .152 (153-158)  .152 (153-158)  .152 (153-158)  .153 (153-138)  .153 (153-138)  .154 (155-154)  .156 (167-162)  .166 (167-174)  .176 (177-182)  .180 (161-162)  .192 (193-206)  .192 (193-206)  .200 (201-207)  .200 (201-207)	WildCard	127	63	31	15	7	3	
.0 (1-30)  .0 (1-30)  .0 (1-30)  .0 (1-30)  .0 (1-30)  .16 (17-30)  .16 (17-22)  .24 (25-30)  .32 (33-38)  .3	<u> </u>						0 (4.0)	
.0 (1-30)  .0 (1-30)  .0 (1-62)  .0 (1-62)  .0 (1-62)  .16 (17-30)  .16 (17-22)  .16 (17-22)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .25 (25-20)  .26 (25-20)  .26 (25-20)  .27 (25-20)  .28 (25-30)  .28 (33-38)  .30 (37-38)  .40 (42-46)  .44 (49-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (65-66)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .96 (97-110)  .96 (97-110)  .104 (105-110)  .104 (10						<b>.0</b> (1-6)		
.0 (1-30)  .0 (1-30)  .16 (17-30)  .16 (17-30)  .16 (17-22)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .24 (25-30)  .26 (29-30)  .32 (33-36)  .32 (33-36)  .32 (33-36)  .40 (42-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (44-46)  .40 (41-42)  .40 (41-4					<b>.0</b> (1-14)	, ,		
.0 (1-30)  .0 (1-30)  .16 (17-30)  .16 (17-30)  .16 (17-22)  .24 (25-30)  .26 (27-30)  .32 (33-34)  .32 (33-3				]	- (	<b>.8</b> (9-14)	<b>.8</b> (9-10)	
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.0 (1-62)  .0 (1-62)				.0 (1-30)		<b>16</b> (17-22)	<b>.16</b> (17-18)	
.0 (1-62)  .24 (25-30)					<b>16</b> (17-30)	110 (11 22)	<b>.20</b> (21-22)	
.0 (1-62)  .32 (33-62)  .32 (33-46)  .32 (33-46)  .40 (42-46)  .44 (45-46)  .44 (45-46)  .48 (49-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (57-62)  .56 (68-70)  .572 (73-74)  .76 (77-72)  .76 (77-72)  .76 (77-73)  .76 (77-72)  .70 (101-126)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .80 (81-94)  .96 (97-102)  .96 (97-102)  .104 (105-110)  .104 (			0 (1 62)		.16 (17-30)	<b>24</b> (25-30)	. <b>24</b> (25-26)	
.0 (1-126)  .3 (33-62)  .3 (33-46)  .3 (33-38)  .3 (33-38)  .4 (42-46)  .40 (42-46)  .44 (45-46)  .48 (49-52)  .56 (57-62)  .56 (57-62)  .50 (57-62)  .70 (77-74)  .70 (77-74)  .70 (77-74)  .70 (77-74)  .70 (77-74)  .70 (77-74)  .70 (77-74)  .70 (77-74)  .70 (77-74)  .712 (113-118)  .712 (113-118)  .712 (113-118)  .712 (113-118)  .712 (113-118)  .712 (113-118)  .712 (113-118)  .713 (136 (137-142)  .713 (136 (137-142)  .713 (136 (137-142)  .714 (145-158)  .715 (157-158)  .716 (177-182)  .716 (177-182)  .716 (177-182)  .716 (177-182)  .717 (177-182)  .718 (193-198)  .719 (193-198)  .719 (193-198)  .719 (193-198)  .710 (197-198)  .710 (197-198)  .711 (171-122)  .712 (173-114)  .713 (173-114)  .713 (173-114)  .714 (145-158)  .715 (177-182)  .716 (177-182)  .717 (177-182)  .718 (177-182)  .719 (177-182)  .719 (177-182)  .710 (177-182)  .710 (177-182)  .711 (171-122)  .712 (173-114)  .713 (173-114)  .713 (173-114)  .714 (173-114)  .715 (177-182)  .716 (177-182)  .717 (177-182)  .718 (173-184)  .719 (173-184)  .710 (173-184)  .710 (173-184)  .710 (173-184)  .711 (173-184)  .712 (173-184)  .713 (173-184)  .714 (173-184)  .715 (173-184)  .715 (173-184)  .715 (173-184)  .716 (173-184)  .717 (173-184)  .718 (173-184)  .718 (173-184)  .718 (173-184)  .719 (173-184)  .710 (173-184)  .710 (173-184)  .710 (173-184)  .710 (173-184)  .711 (173-184)  .712 (173-184)  .713 (173-184)  .714 (173-184)  .715 (173-184)  .715 (173-184)  .716 (173-184)  .717 (173-1						.24 (20 00)	<b>.28</b> (29-30)	
.32 (33-46) -30 (42-46) -40 (42-46) -40 (42-46) -40 (42-46) -40 (42-46) -44 (45-46) -48 (49-54) -52 (53-54) -56 (57-62) -56 (57-58) -56 (57-62) -56 (57-58) -56 (57-62) -56 (57-58) -56 (57-62) -56 (57-58) -72 (73-74) -76 (77-78) -76 (7			.0 (1-02)			<b>22</b> (22 20)	<b>.32</b> (33-34)	
.0 (1-126)  .1 (1-126)  .1 (1-					22 (22 46)	.32 (33-36)	<b>.36</b> (37-38)	
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.0 (1-126)  .64 (65-94)  .64 (65-78)  .64 (65-78)  .64 (65-78)  .64 (65-78)  .64 (65-76)  .64 (65-76)  .65 (57-62)  .65 (57-62)  .65 (57-62)  .68 (69-70)  .72 (73-78)  .72 (73-74)  .72 (13-14)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .12 (113-12)  .1				<b>33</b> (33 63)		.40 (42-40)	<b>.44</b> (45-46)	
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.64 (65-72)  .64 (65-94)  .64 (65-72)  .64 (65-72)  .64 (65-72)  .64 (65-72)  .64 (65-72)  .64 (65-72)  .68 (65-72)  .68 (65-72)  .68 (65-72)  .68 (65-72)  .68 (65-72)  .68 (65-72)  .72 (73-74)  .76 (77-78)  .80 (81-82)  .88 (89-94)  .88 (89-94)  .88 (89-94)  .96 (97-102)  .104 (105-106)  .104 (105-106)  .104 (105-106)  .104 (105-106)  .104 (105-106)  .105 (101-102)  .102 (121-126)  .102 (121-126)  .103 (137-142)  .128 (129-134)  .136 (137-142)  .136 (137-14					40 (40 00)	.46 (49-54)	<b>.52</b> (53-54)	
.64 (65-94)  .64 (65-94)  .64 (65-78)  .64 (65-78)  .64 (65-78)  .64 (65-70)  .72 (73-78)  .72 (73-74)  .72 (73-78)  .72 (73-74)  .72 (73-78)  .72 (73-74)  .72 (73-78)  .80 (81-86)  .88 (89-94)  .88 (89-94)  .92 (93-94)  .92 (93-94)  .94 (97-126)  .112 (113-126)  .113 (137-132)  .128 (129-134)  .132 (133-134)  .132 (133-134)  .132 (133-134)  .132 (133-134)  .132 (133-134)  .132 (133-134)  .132 (133-134)  .132 (133-134)  .132 (133-134)  .132 (133-134)  .134 (145-150)  .144 (145-150)  .152 (153-158)  .152 (					<b>.48</b> (49-62)	<b>FO</b> (F7 00)		
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.64 (65-78)  .64 (65-78)  .64 (65-78)  .64 (65-78)  .65 (65-70)  .72 (73-78)  .72 (73-74)  .73 (73-74)  .74 (173-174)  .75 (177-182)  .77 (173-174)  .77 (173-174)  .77 (173-174)  .77 (173-174)  .78 (173-174)  .79		<b>.0</b> (1-126)						
.64 (65-94)  .64 (65-126)  .64 (65-126)  .66 (65-126)  .66 (65-126)  .67 (77-78)  .80 (81-86)  .92 (93-940)  .12 (177-178)  .12 (133-134)  .13 (121-1126)  .12 (121-126)  .12 (121-126)  .12 (121-126)  .12 (121-126)  .12 (121-126)  .12 (121-126)  .12 (133-134)  .13 (137-142)  .13 (132-134)  .13 (137-142)  .14 (145-146)  .13 (137-142)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .14 (145-146)  .15 (133-134)  .15 (171-121)  .16 (171-121)  .17 (173-134)  .17 (171-121)  .17 (173-134)  .18 (185-190)  .18 (189-10)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .19 (193-18)  .10 (161-162)  .10 (161-162)  .10 (161-162)  .10 (161-162)  .10 (161-162)  .10 (16						<b>.64</b> (65-70)		
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.128 (129-190)  .128 (129-190)  .144 (145-158)  .144 (145-158)  .152 (153-158)  .152 (153-158)  .160 (161-166)  .163 (169-174)  .172 (173-174)  .172 (173-174)  .176 (177-182)  .184 (185-190)  .184 (185-190)  .184 (185-190)  .192 (193-222)  .192 (193-206)  .192 (193-206)  .192 (193-222)  .208 (209-214)  .208 (209-214)  .216 (217-222)  .216 (217-222)  .220 (221-228)  .220 (221-228)  .220 (221-228)					,	<b>.136</b> (137-142)		
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.176 (177-182)							1100 (100 17 1)	<b>.172</b> (173-174)
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.192 (193-222)200 (201-206)204 (205-206)208 (209-214)208 (209-222)212 (213-214)216 (217-222)216 (217-218)200 (201-202)216 (217-218)210 (201-202)					<b>.192</b> (193-206)	.192 (193-196)	<b>.196</b> (197-198)	
.192 (193-222)   .208 (209-214)   .208 (209-214)   .212 (213-214)   .216 (217-222)   .216 (217-222)   .220 (221-2222)   .220 (221-2222)   .220 (221-2222)   .220 (221-2222)   .220 (221-2222)   .220 (221-2222)   .220 (221-2222)   .220 (221-2222)						<b>.200</b> (201-206)	.200 (201-202)	
.208 (209-214)				<b>.192</b> (193-222)			.204 (205-206)	
.208 (209-222) -208 (209-222) -216 (217-222) -216 (217-222) -20 (221-222) -20 (221-222)						208 (200 244)	.208 (209-210)	
.208 (209-222) .216 (217-222) .216 (217-222) .20 (221-222)					<b>.208</b> (209-222)	.208 (209-214)		
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1 1 224 (225-226)			<b>.192</b> (193-254)	<b>.224</b> (225-254)	.224 (225-238) 24 (225-254) .240 (241-254)		.224 (225-226)	
.224 (225-230)								
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.232 (235-236) <b>236</b> (237-238)						<b>.232</b> (233-238)		
.224 (223-234)								
.240 (241-246) 244 (245-246) 244 (245-246)						.240 (241-254)	<b>.240</b> (241-246)	
.240 (241-254) .244 (245-246) .248 (240-250)								
.248 (249-254) .252 (249-254) .253 (249-254)							<b>.248</b> (249-254)	
Sintax: . <b>Fndereco da Rede</b> (1º Host - Último Host)			Cimt F	denose de D	da (40 l.) ( - 1		. <b>232</b> (253-254)	

Sintax: .Endereço da Rede (1º Host - Último Host)