

REDES DE COMPUTADORES

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CCT- UFCA



AULA 03

PACKET TRACER





SUMÁRIO

- Instalação do Packet Tracer
- Elementos básicos
- Criação de um cenário simples
- Configurações básicas
- Execução modo tempo real e simulação

INSTALAÇÃO

- Acessar: <https://www.netacad.com/courses/packet-tracer>
- Desce ao final da página e clica em:

Get Started

Enroll, download, and get started learning valuable tips and best practices for using Packet Tracer with our brief introductory course.

Online self-paced

Intro to Packet Tracer

Enroll to download your free copy of Packet Tracer and learn basic skills with the tool.



Beginning



Learn More

INSTALAÇÃO

- Na página seguinte clique em **Sign up today** para fazer o cadastro:

Hands-On Practice

Enroll, download and start learning valuable tips and best practices for using our innovative, virtual simulation tool, Cisco Packet Tracer. This self-paced course is designed for beginners with no prior networking knowledge. It teaches basic operations of the tool with multiple hands-on activities helping you to visualize a network using everyday examples, including Internet of Things (IoT). This Introductory course is extremely helpful for anyone who plans to take one of the Networking Academy courses which utilizes the powerful simulation tool. No prerequisites required!

You'll Learn These Core Skills:

- Simulate data interactions traveling through a network.
- Visualize the network in both logical and physical modes.
- Apply skills through practice, using labs and Cisco Packet Tracer activities.
- Develop critical thinking and problem-solving skills.

Sign up today!



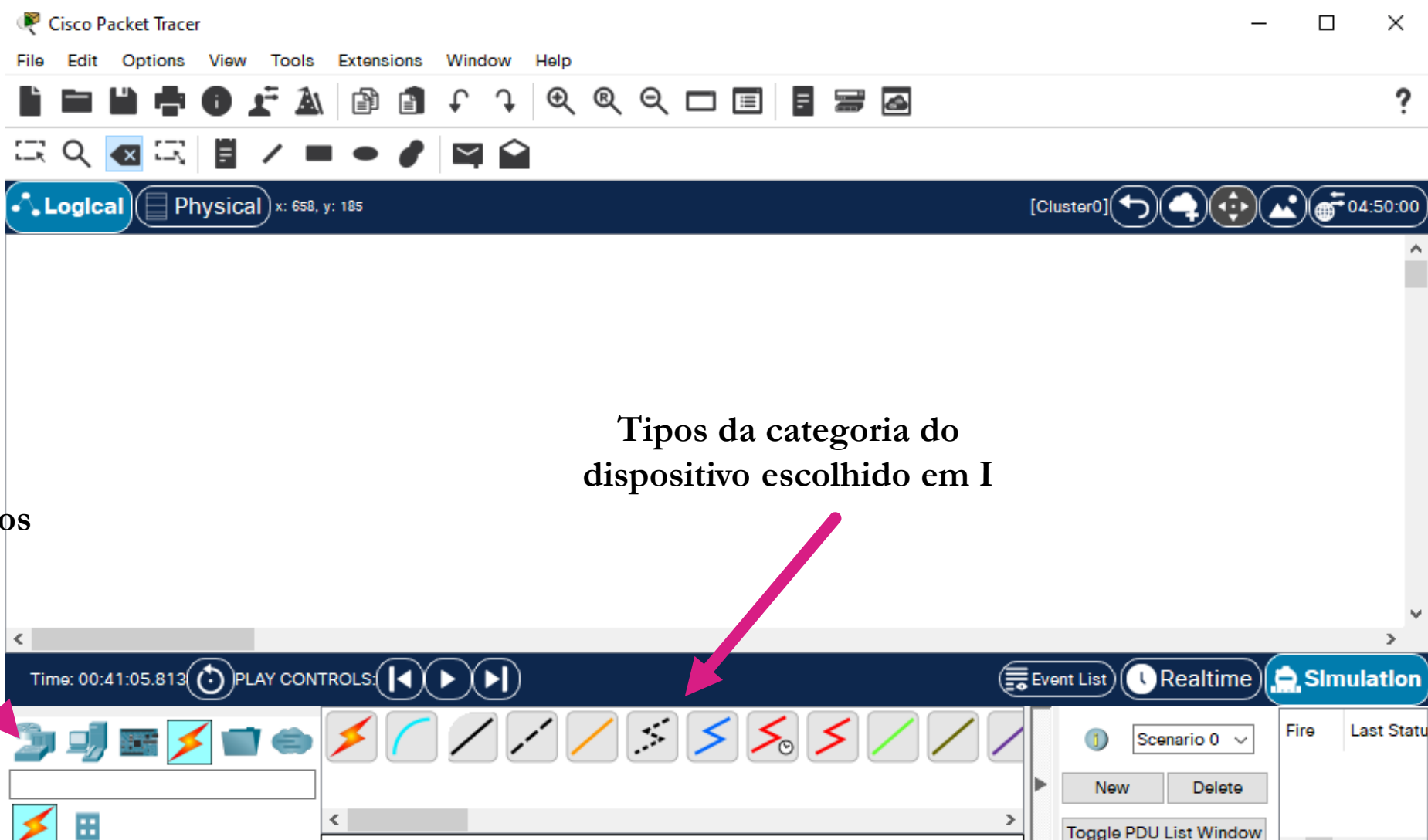
INSTALAÇÃO

- Faz o cadastro e verifica seu email
- Quando receber o email da cisco continua o cadastro
- Após finalização você poderá fazer o download do packet Tracer
- Instalação básica padrão do windows

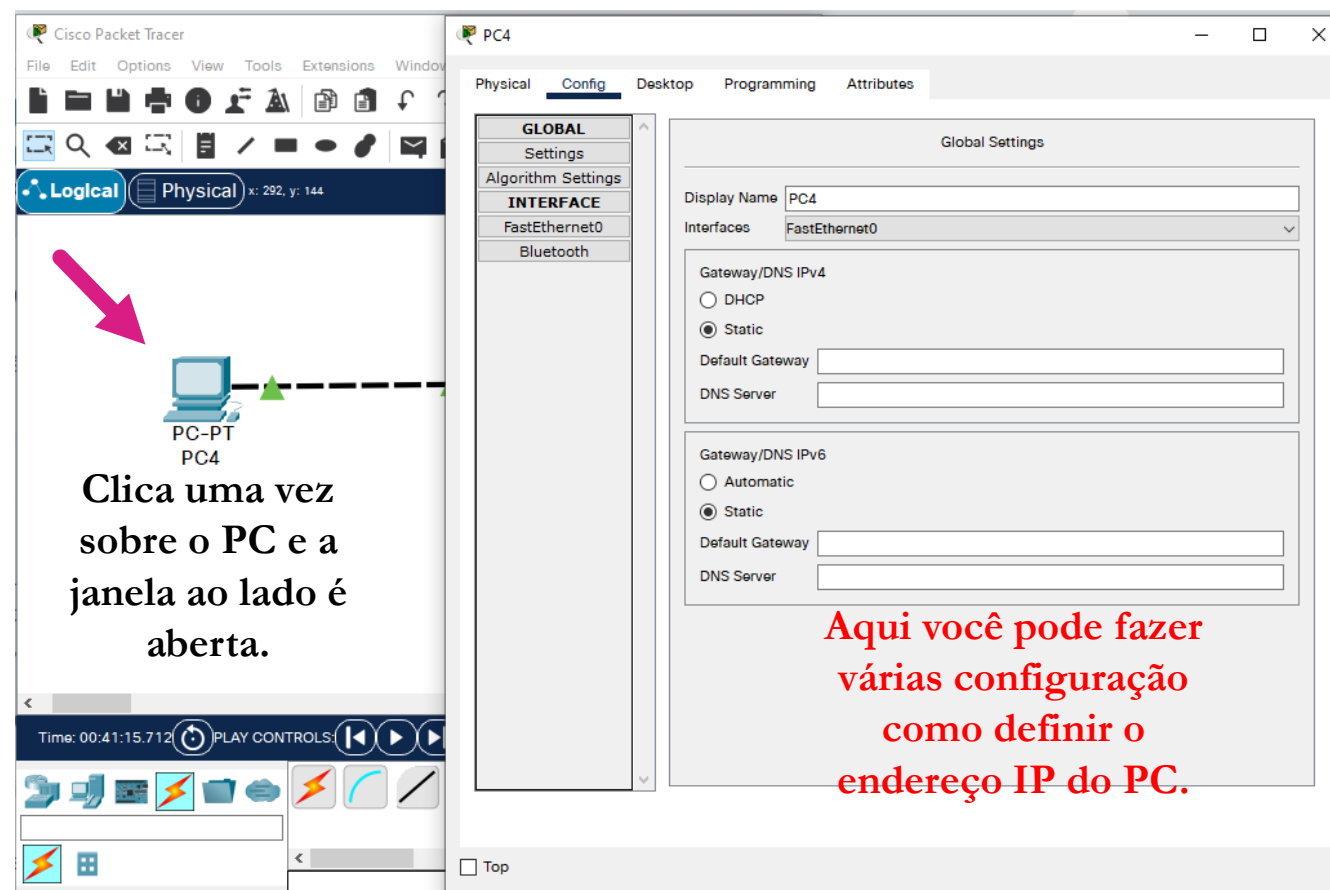
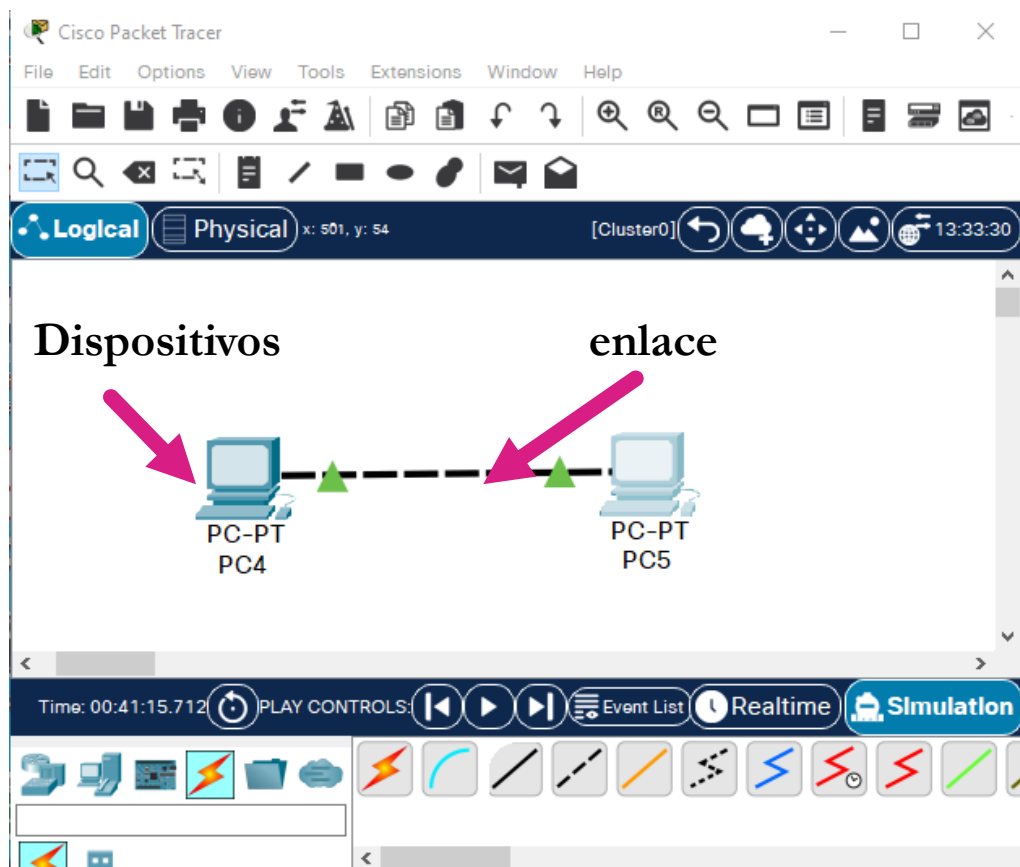
ELEMENTOS BÁSICOS

I - Dispositivos

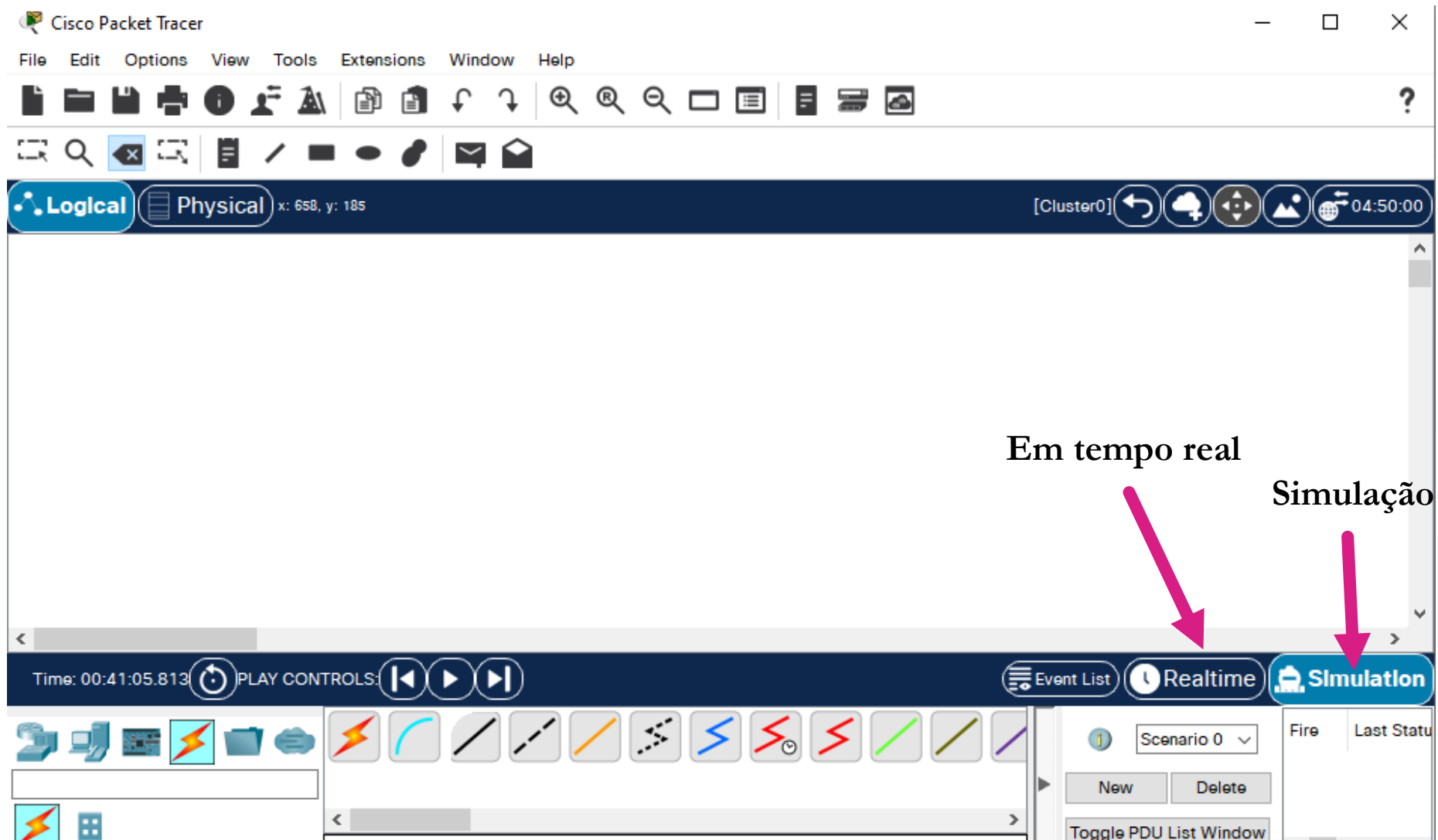
Tipos da categoria do dispositivo escolhido em I



CENÁRIO SIMPLES



MODO DE EXECUÇÃO



MODO DE EXECUÇÃO

The screenshot shows the Cisco Packet Tracer interface in the execution mode. The main workspace displays a network diagram with two PCs, PC4 and PC5, connected by a dashed line. The interface includes a menu bar (File, Edit, Options, View, Tools, Extensions, Window, Help) and a toolbar with various icons. The 'Simulation' tab is active, and the 'Event List' panel is open on the right. The 'Event List' panel shows a table of events:

Time(sec)	Last Device	At Device	Type
0.000	--	PC4	ICMP
0.000	--	PC4	ARP
0.001	PC4	PC5	ARP

The 'Event List' panel also includes a 'Reset Simulation' button, a 'Constant Delay' checkbox, and a 'Captured to:' field showing '0.001 s'. Below the table, there are 'Play Controls' buttons (play, pause, stop) and a progress bar. At the bottom, there is an 'Event List Filters - Visible Events' section with a list of protocols and a 'Show All/None' button.

Janela de controle da simulação. Mostra os pacotes trocados e as informações dentro deles.

MODO DE EXECUÇÃO

The screenshot displays the Cisco Packet Tracer interface. The main window shows a network topology with a PC-PT PC4. A PDU Information window is open, showing details for a packet received at PC5. The window has tabs for OSI Model, Inbound PDU Details, and Outbound PDU Details. The OSI Model tab is selected, showing the packet structure across seven layers. The In Layers section shows the packet structure as received, and the Out Layers section shows the packet structure as it would be sent. The packet is an ARP request from PC4 to PC5. The Event List window is also open, showing a list of events. A pink arrow points to the ARP event in the Event List, and another pink arrow points to the Out Layers section of the PDU Information window.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical

PC-PT PC4

Time: 00:43:48.128

Challenge Me

<< Previous Layer Next Layer >>

Simulation Panel

Event List

At Device	Type
PC4	ICMP
PC4	ARP
PC5	ARP

PDU Information at Device: PC5

OSI Model Inbound PDU Details Outbound PDU Details

At Device: PC5
Source: PC4
Destination: Broadcast

In Layers

Layer7
Layer6
Layer5
Layer4
Layer3
Layer2: Ethernet II Header 0007.EC54.55E7 >> FFFF.FFFF.FFFF ARP Packet Src. IP: 192.168.1.1, Dest. IP: 192.168.1.2
Layer1: Port FastEthernet0

Out Layers

Layer7
Layer6
Layer5
Layer4
Layer3
Layer2: Ethernet II Header 0002.16EE. 51C1 >> 0007.EC54.55E7 ARP Packet Src. IP: 192.168.1.2, Dest. IP: 192.168.1.1
Layer1: Port(s): FastEthernet0

1. FastEthernet0 receives the frame.

Constant Delay Captured to: 0.001 s

Visible Events

BGP, Bluetooth, CAPWAP, CDP, DHCP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HTTP, HTTPS, ICMP, ICMPv6, IPSec, TCP, LACP, LLDP, Meraki, NDP, OSPF, OSPFv6, PAgP, POP3, PPP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Clica no pacote e abre uma outra janela.

Aqui tem as informações dos cabeçalhos dos pacotes enviados.