

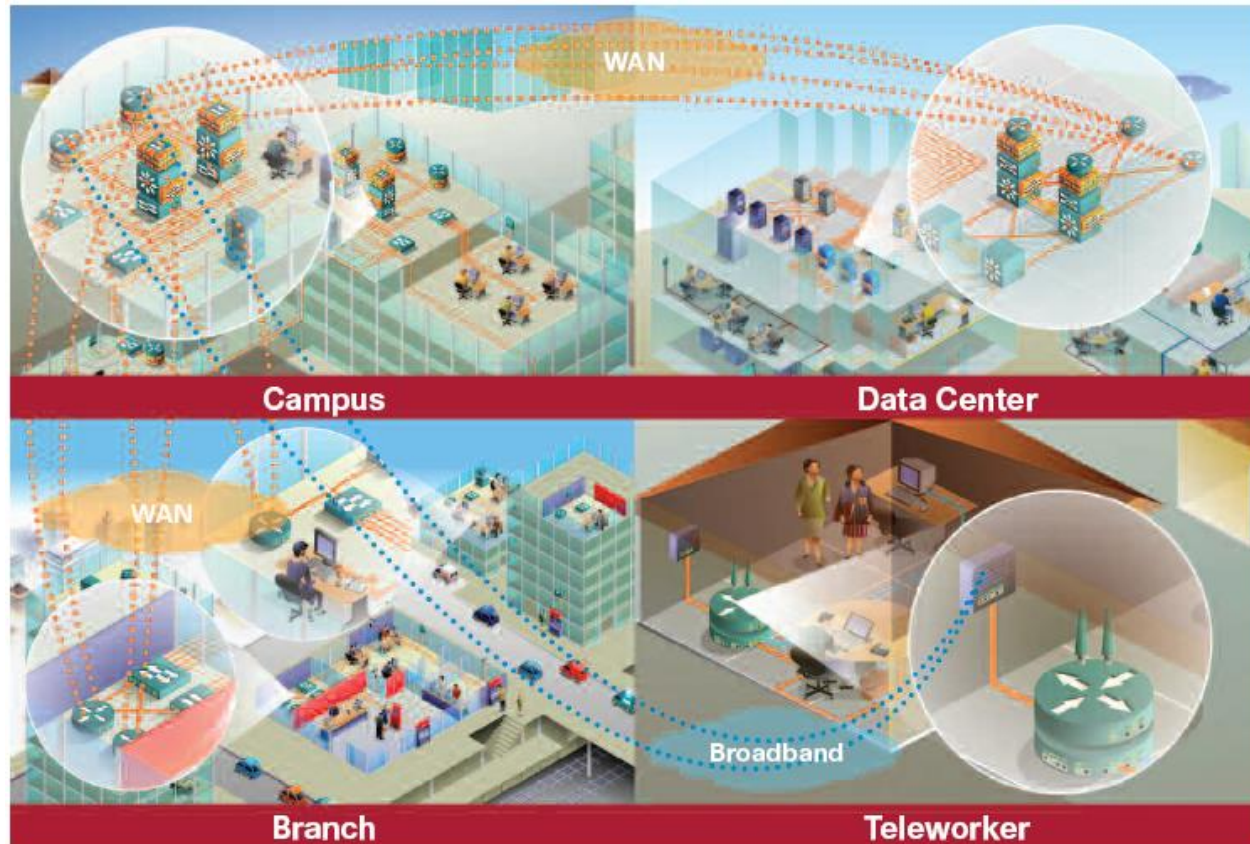
## **Aula 05 – Arquitetura das Redes V**

**Redes (TI)**

**Prof.: Pinho**

[profpinho@fiap.com.br](mailto:profpinho@fiap.com.br)

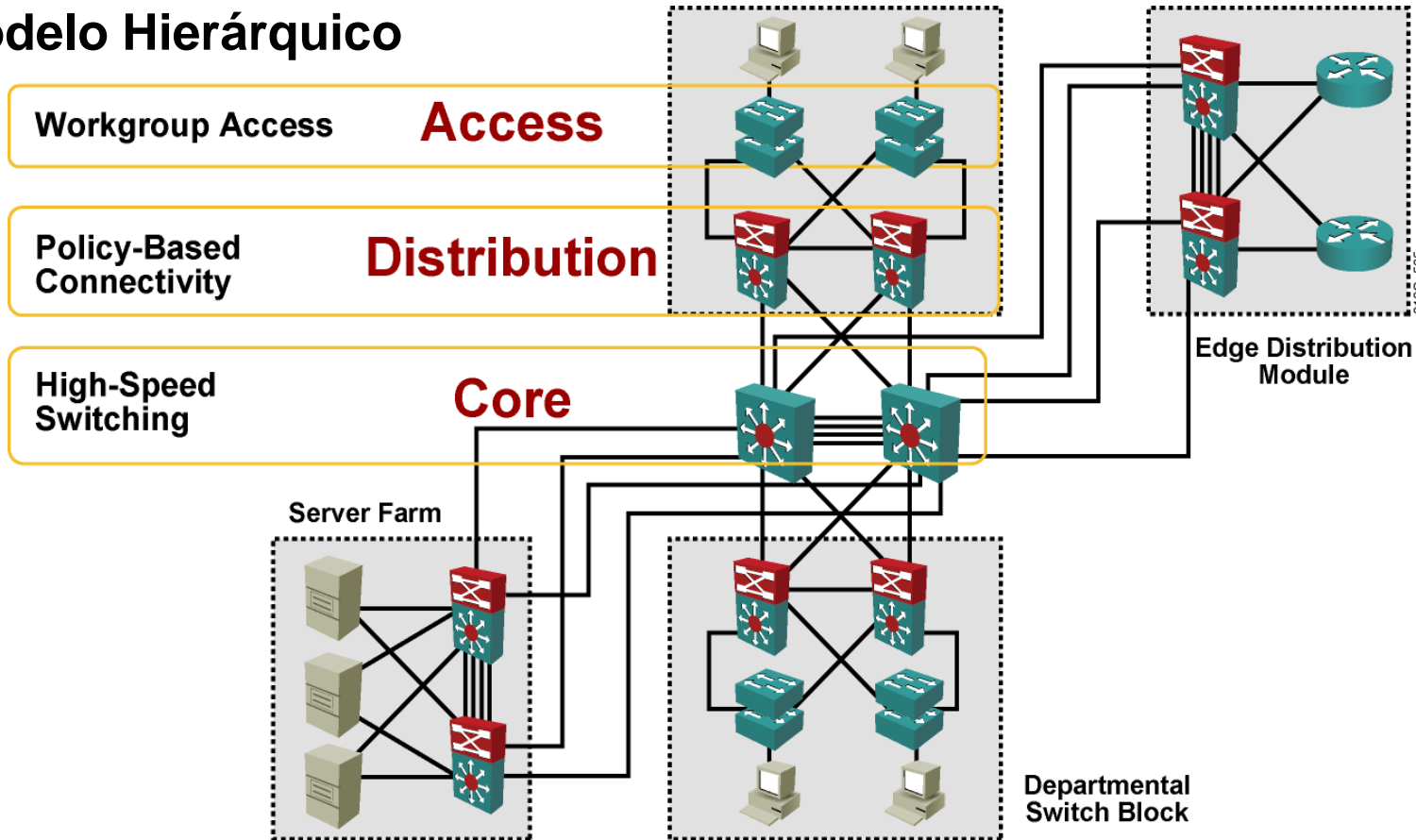
## FUNDAMENTOS DE REDES DE COMPUTADORES



## Arquiteturas Corporativas

## FUNDAMENTOS DE REDES DE COMPUTADORES

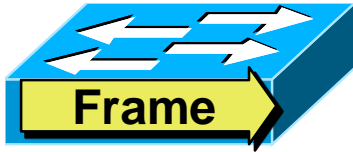
### Modelo Hierárquico



- Switches Catalyst,
  - Layer 2 configuration
  - Layer 3 configuration

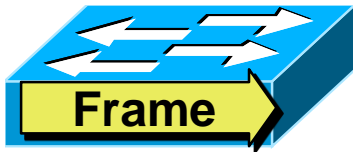


- **Cut-through**
  - Switch checks destination address and immediately begins forwarding frame

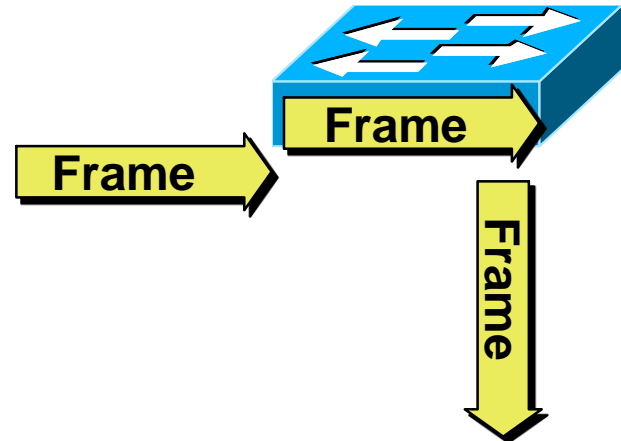


## FUNDAMENTOS DE REDES DE COMPUTADORES

- **Cut-through**
  - Switch checks destination address and immediately begins forwarding frame

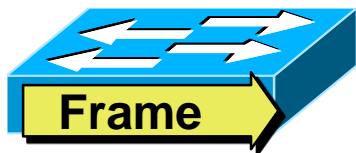


- **Store and forward**
  - Complete frame is received and checked before forwarding

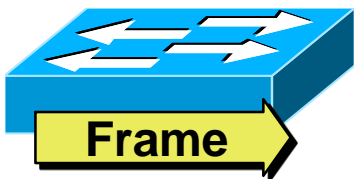


## FUNDAMENTOS DE REDES DE COMPUTADORES

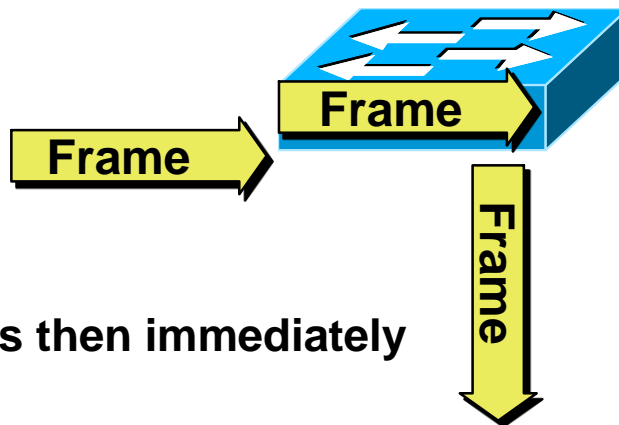
- **Cut-through**
  - Switch checks destination address and immediately begins forwarding frame



- **Fragment free**
  - Switch checks the first 64 bytes then immediately begins forwarding frame



- **Store and forward**
  - Complete frame is received and checked before forwarding



## Configurando o Switch



### – Catalyst

- Setup
- Web-based VSM (Visual Switch Manager)
- IOS CLI (command-line interface)





## Configurando o Switch



**Switch>** (modo user)

**Switch> ?** (Help)

**Switch>enable**

**Switch#** (modo privilegiado)





## – Modos de configuração

Global configuration mode

**Switch# conf term**

**Switch(config)#**



## **Configurando o nome do Switch**

**Switch(config)#hostname SW1**

**SW1(config)#**



## **Configurando o endereço ip no Switch**

**Switch(config)#interface vlan 1**

**Switch(config-if)#ip address 10.0.0.100 255.0.0.0**

**Switch(config-if)#no shutdown**



## **Configurando o Default Gateway no Switch**

**Switch(config)#ip default-gateway 10.0.0.254**



## Verificando a configuração corrente

```
Switch#show running-config
```

- Apresenta as configurações que estão na memória RAM



## Verificando a configuração salva

```
Switch#show startup-config
```

- Apresenta as configurações que estão na memória NVRAM



```
Switch#erase startup-config  
Switch#reload
```

- Apaga as configurações que estão na memória NVRAM
- Reinicializa o Switch





- Implementar o projeto a seguir

