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Protocolo TCP

"Transmission Control Protocol"

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- ❑ Introdução
- ❑ Pacote TCP
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- ❑ Estados TCP
 - ❖ Estabelecimento de conexão
 - ❖ Troca de dados
 - ❖ Encerramento de conexão
- ❑ Utilitários

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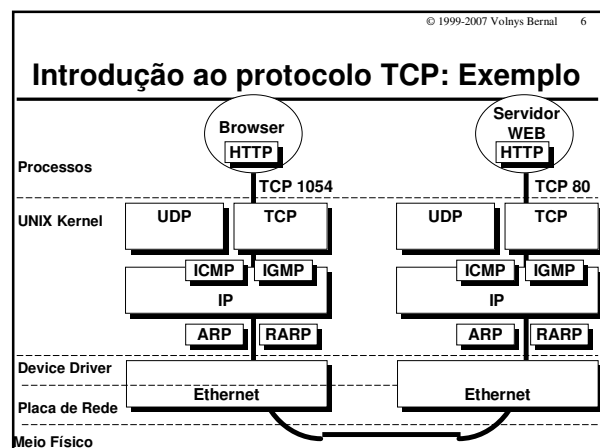
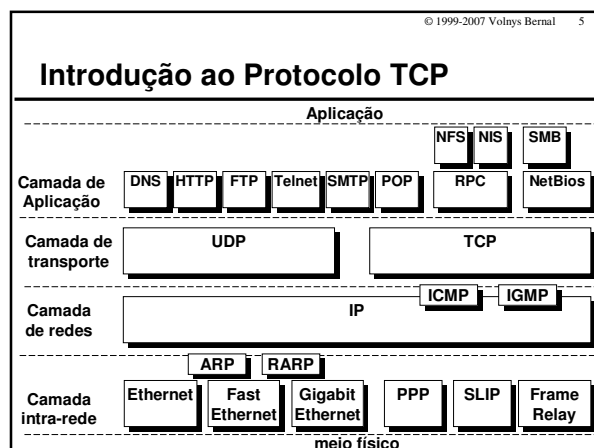
Introdução ao Protocolo TCP

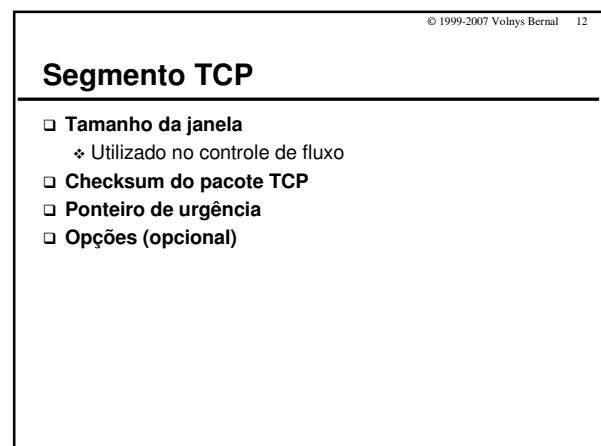
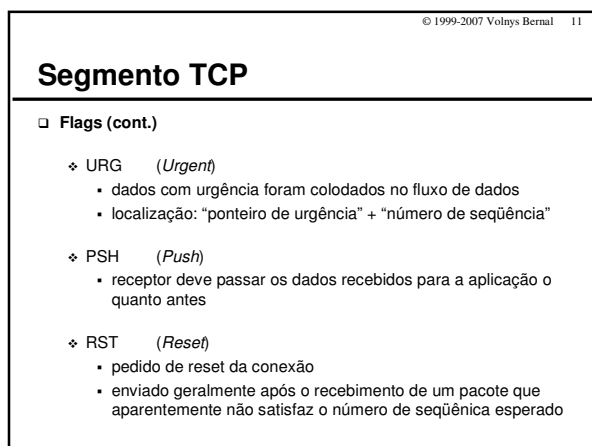
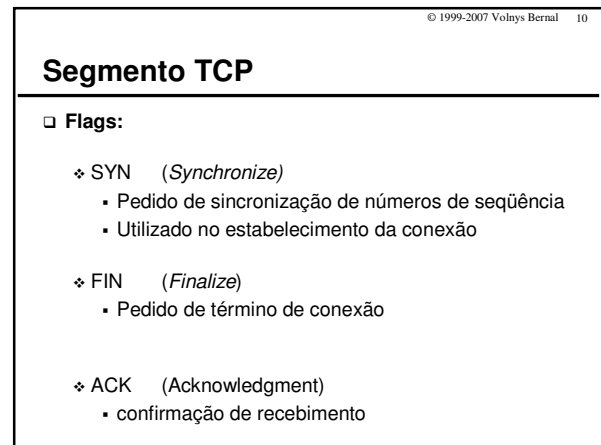
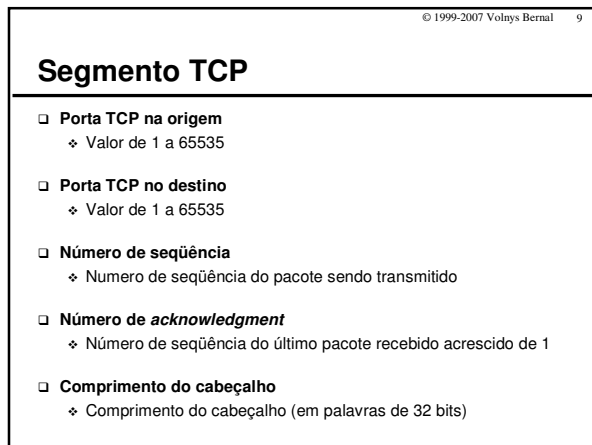
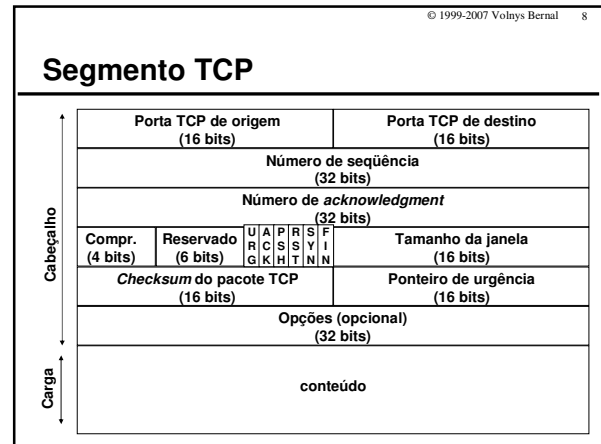
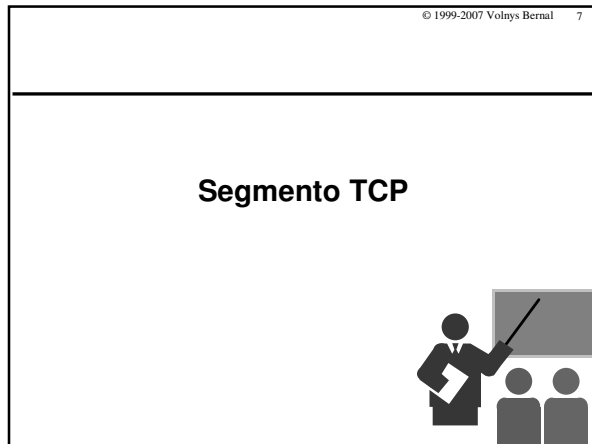


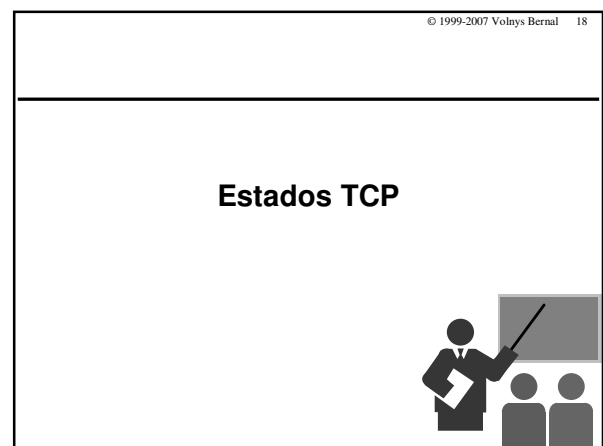
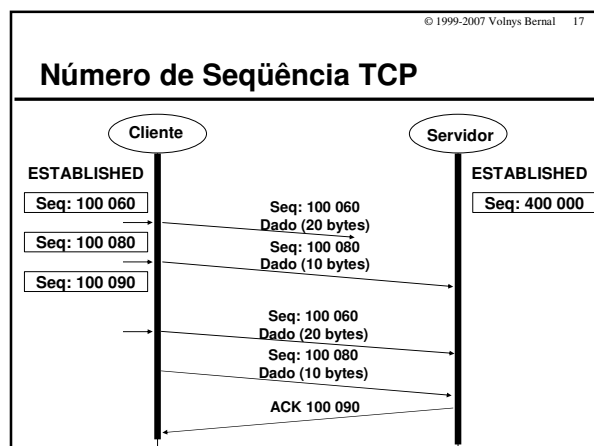
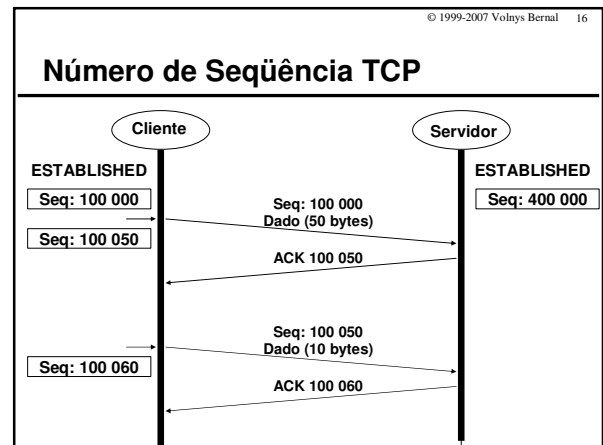
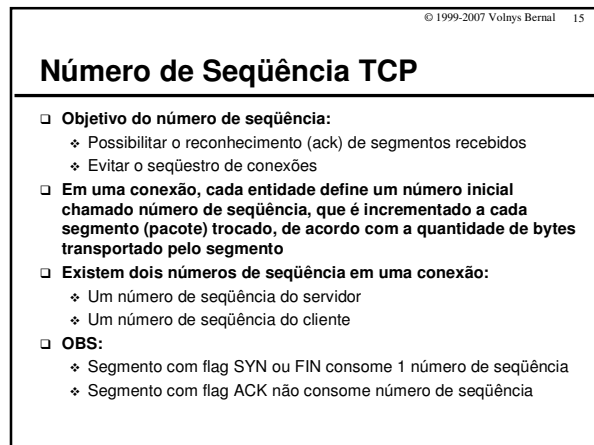
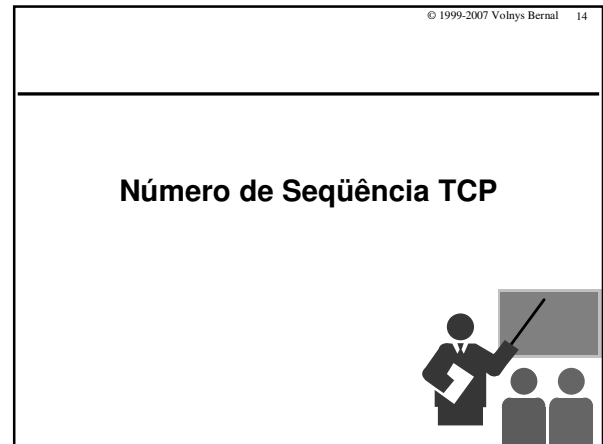
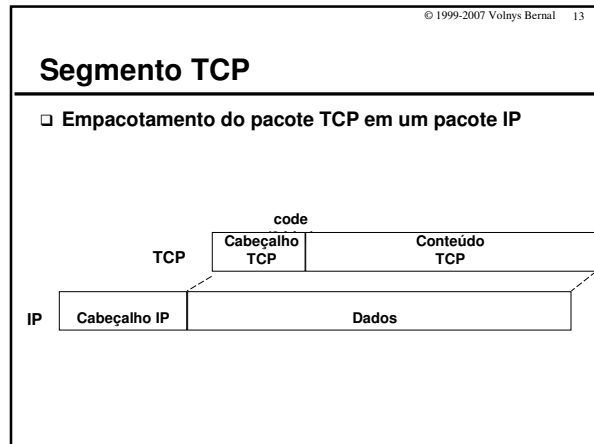
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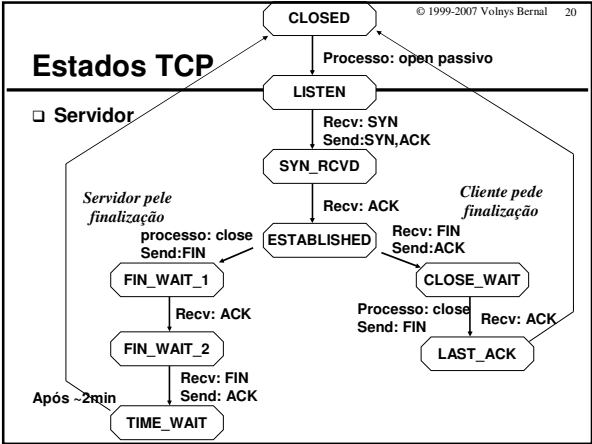
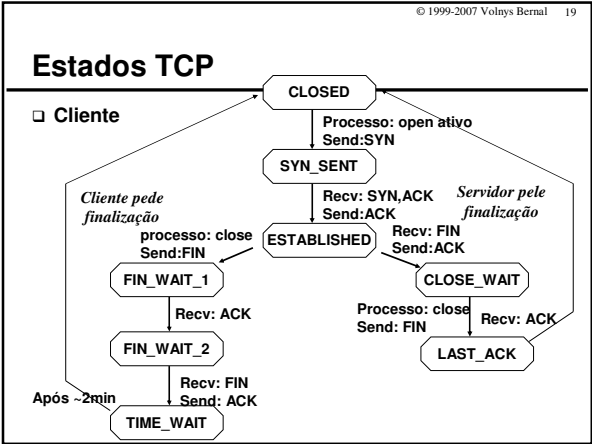
Introdução ao Protocolo TCP

- ❑ O que é o protocolo TCP?
 - ❖ TCP = "Transport Control Protocol"
 - ❖ Protocolo da camada de transporte
- ❑ Objetivo
 - ❖ Protocolo da camada de transporte para permitir comunicação entre aplicações
- ❑ Características
 - ❖ Orientado a conexão: é necessário estabelecimento de conexão entre emissor e receptor antes de enviar um pacote TCP
 - ❖ Confiável: se um pacote não for entregue ele é retransmitido
 - ❖ Entrega em ordem
 - ❖ Controle de fluxo
- ❑ Porta TCP
 - ❖ Permite a um processo de aplicação se associar a uma porta



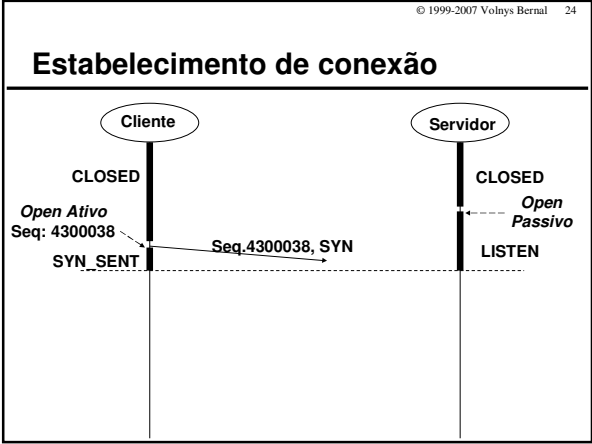
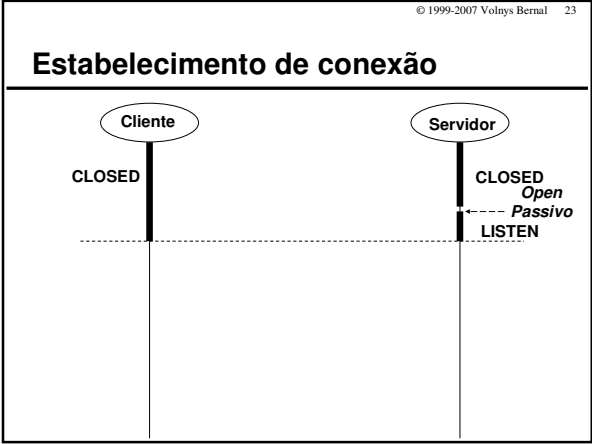
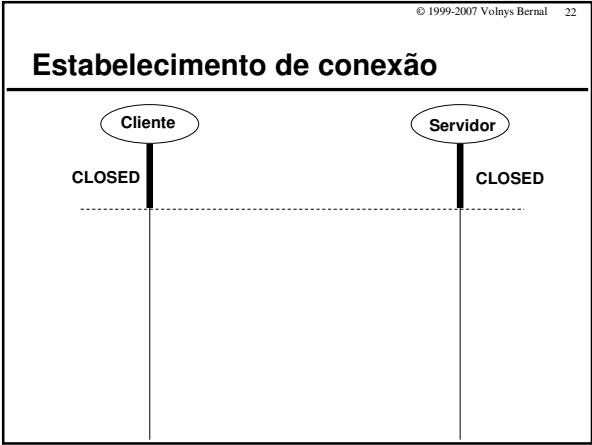


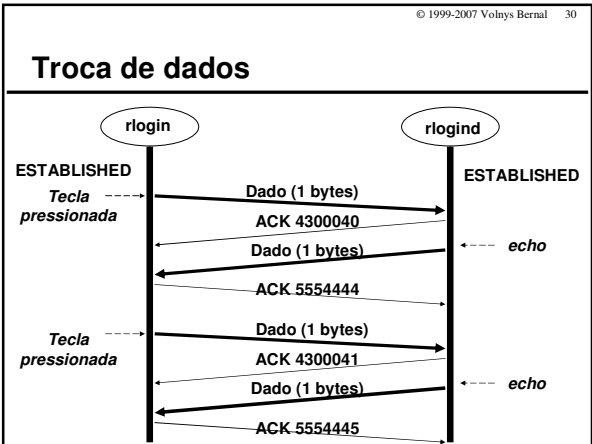
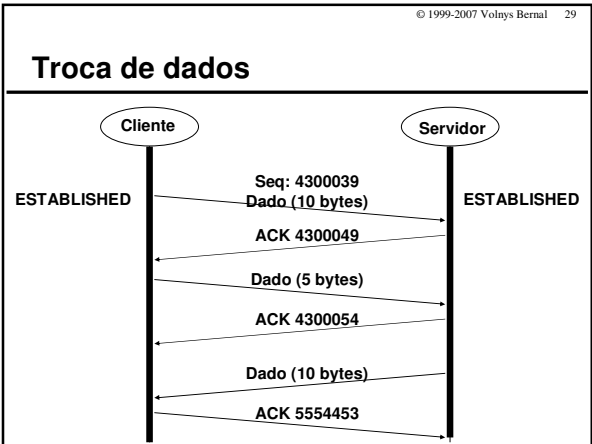
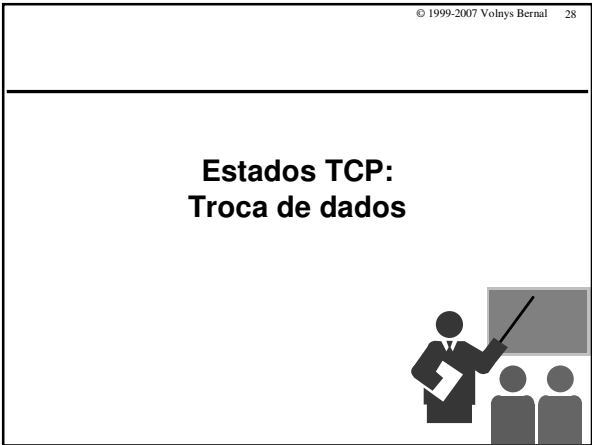
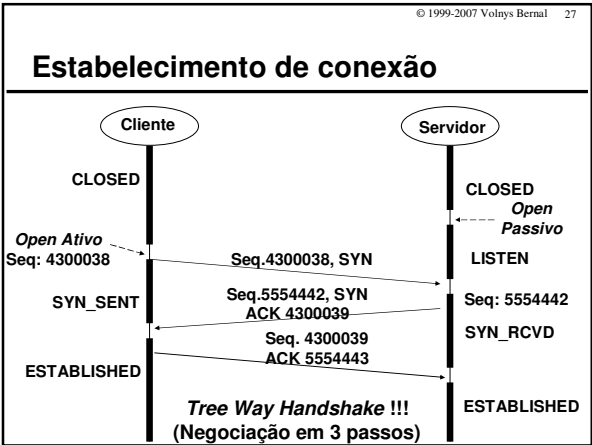
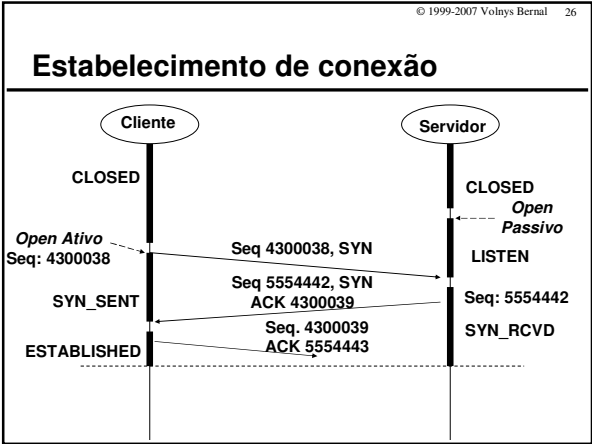
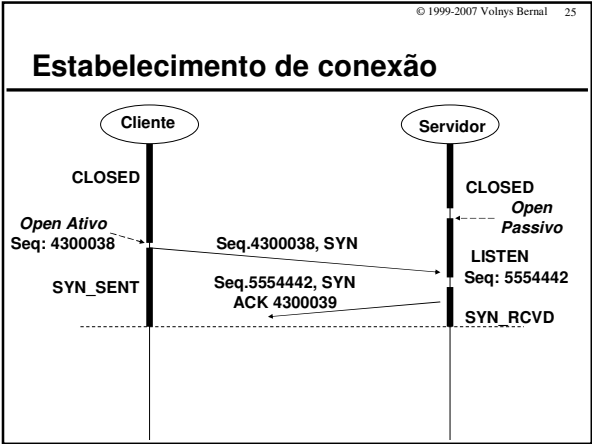


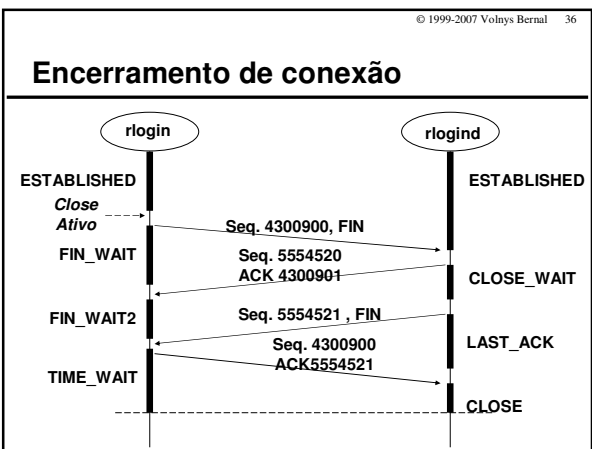
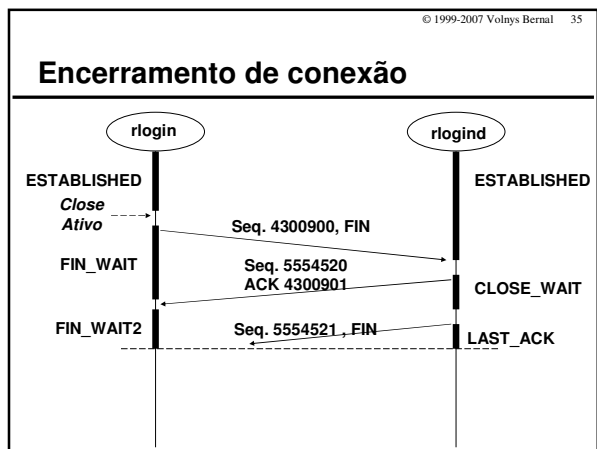
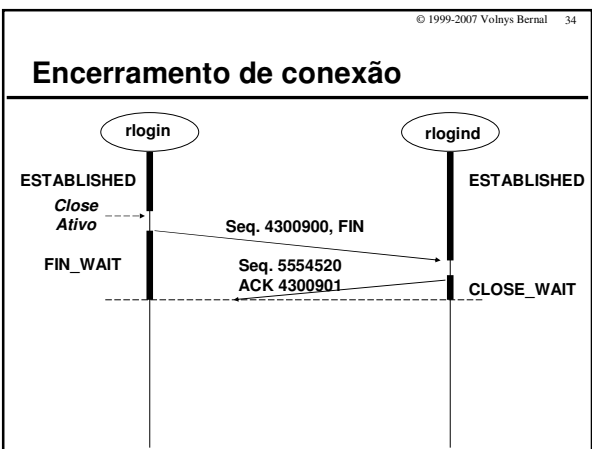
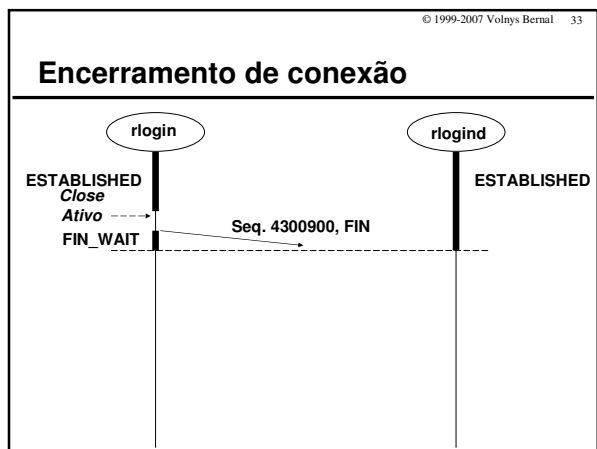
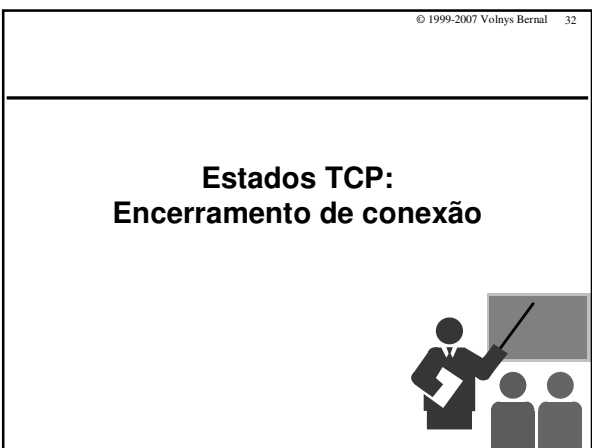
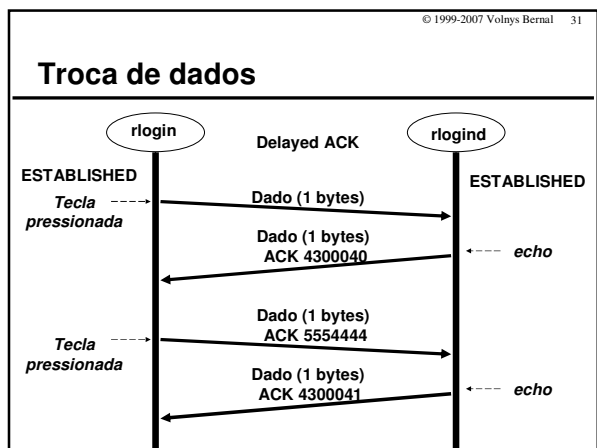


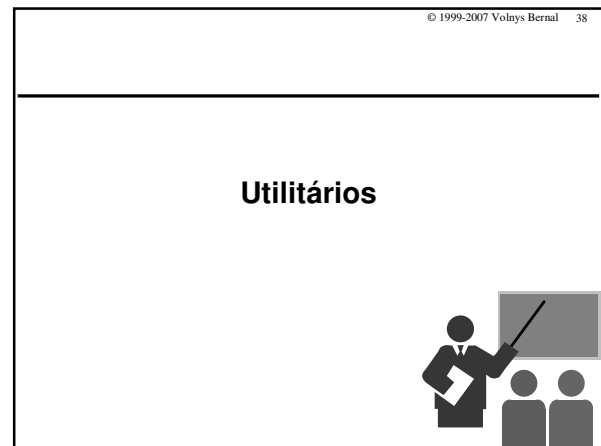
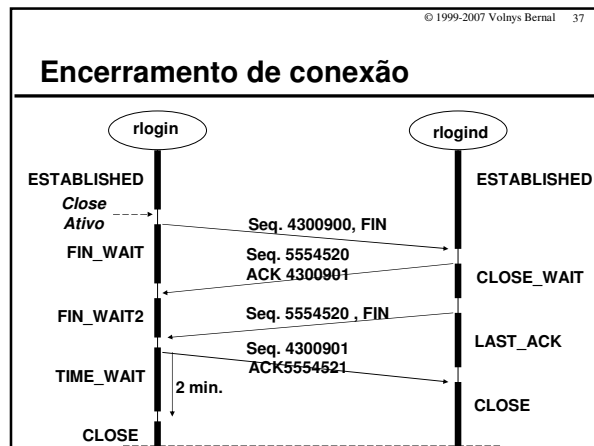
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Estados TCP: Estabelecimento de conexão







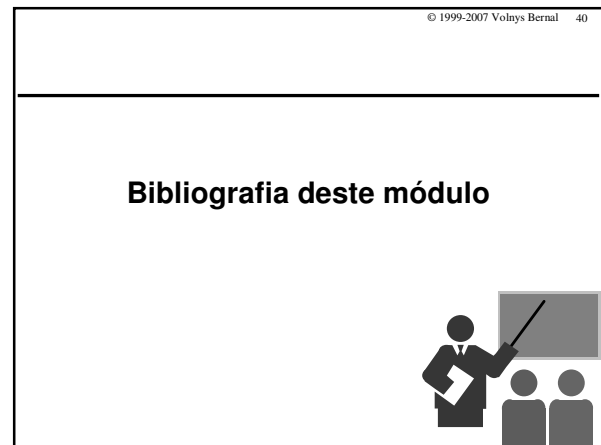


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Utilitários

- ❑ **netstat -a**
 - ❖ Permite verificar as conexões TCP estabelecidas e as portas TCP abertas aguardando conexões

```
# netstat -a
...
Proto RecQ  SendQ  Local          Remote
State
...
```



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