

Serviço de Nomes (DNS)

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Teoria e prática



DNS

Conceitos e fundamentos





Implementação

Configurar o serviço usando o BIND



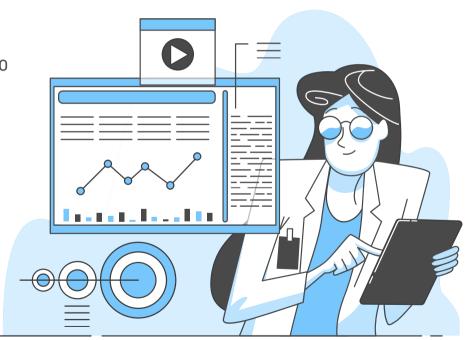
Testes

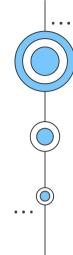
Testar as funcionalidades básicas do serviço DNS



Conclusões

Revisar, aprimorar e evitar problemas comuns

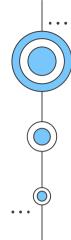




O1 DNS

Conceitos e fundamentos



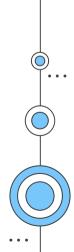




Sistema Global de Tradução de Nomes

Concebido para resolver o problema da centralização da base de dados de tradução. Construído de forma hierarquizada utilizando a arquitetura cliente/servidor

• • •





Componentes da solução





Cliente (resolver)

Consulta por nome ou IP

• • •



Servidor (named)

Recebe as consultas e responde

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Root servers

Mantêm o nó raiz da hierarquia

. . .



Distribuição dos "Root Servers"



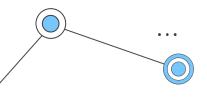
The 13 root name servers are operated by 12 independent organisations.

You can find more information about each of these organisations by visiting their homepage as found in the 'Operator' field below.

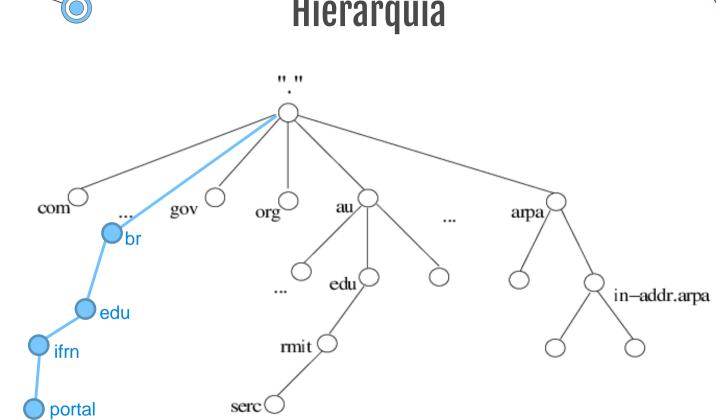
Technical questions about the Root Server System as a whole can be directed to the Ask RSSAC e-mail address.

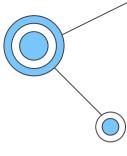
Visualisations produced from RSSAC002 data submitted by the root server operators can be viewed at resection of the resection

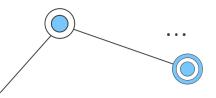




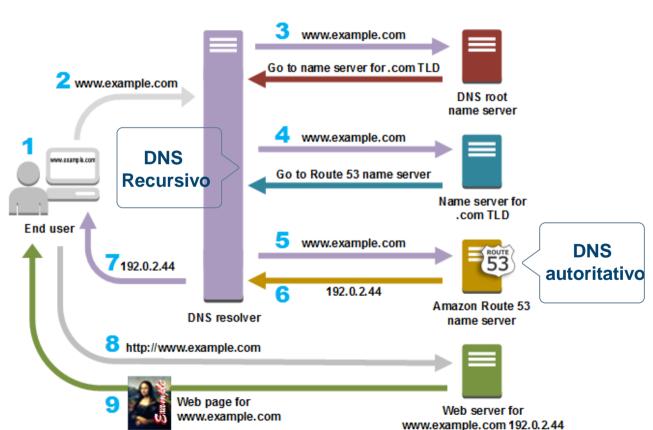
Hierarquia

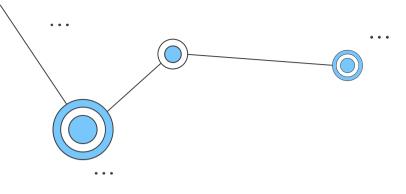






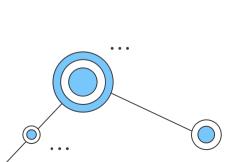
Consultas





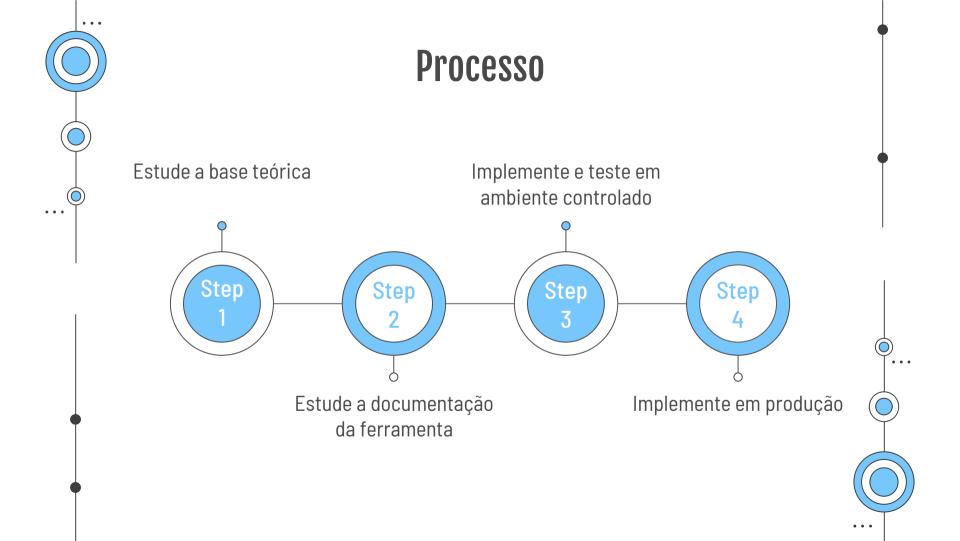
"A melhor maneira de aprender algo é fazendo você mesmo."

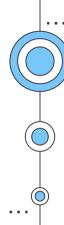












01

Direta

Implente a zona de resolução direta seguindo a documentação

02

Reversa

Monte a zona de definição reversa conforme documentação





03

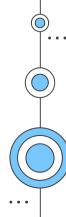
Primária

Defina a zona primária conforme documentação

04

Secundária

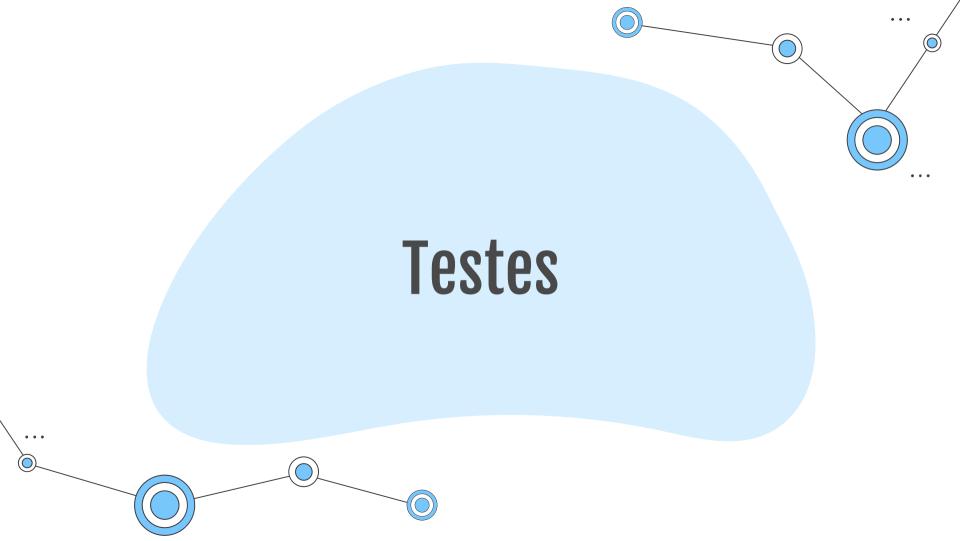
Defina a zona secundária conforme documentação







```
BIND ifrn.edu.br
$TTL
        9600
        IN
                 SOA
                          icaro.ifrn.edu.br. root.icaro.ifrn.edu.br.
                         201406021546
                                          : Serial
                         3H
                                            Refresh
                         15M
                                            Retry
                         1W
                                            Expire
                         1D
                                          ; Negative Cache TTL
icaro
                 IN
                         A
                                  10.4.65.16
                 IN
                                  10.4.65.16
dns
                 IN
                         CNAME
                                  10.4.65.16
www
atlas
                 IN
                                  10.4.65.14
                         A
silverstone
                 IN
                                  10.4.64.2
silverstone
                 IN
                                  10.4.65.1
       IN
                 MX 5
                         icaro.ifrn.edu.br.
       IN
                         icaro.ifrn.edu.br.
                 NS
       IN
                         10.4.65.16
```





Testes





Resolução direta

Comandos do SO



Resolução reversa

Comandos do SO



Transferência de zonas

Entre servidores



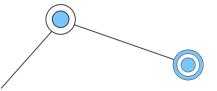
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Conclusões

O DNS é um sistema essencial para a Internet. Nas infraestruturas modernas ele pode ser executado em containers!





Thanks!

Questions?

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