

Administração de sistemas e redes

Administração de Sistemas

- A administração de Sistemas é um tipo especial de atividade que envolve integrar os sistemas de computadores com as necessidades da comunidade usuária, de forma efetiva e eficiente
- “System administrators need to know a bit of everything: the skills are technical, administrative and socio-psychological.” (Mark Burgess . Principles of Network and System Administration)

Tarefas – Sistemas

- processos para manter o sistema
 - boot e shutdown
 - gracefully
- configuração do kernel
 - atualização através de patches
 - módulos
- configuração de dispositivos de hardware
 - conflitos IRQ

Tarefas – Sistemas

- dispositivos de armazenamento
 - configuração
 - particionamento
 - sistema de arquivos
 - quotas
 - verificação do disco (fsck)
- gerência de memória
 - configuração da memória virtual

Tarefas – Sistemas

- usuários e grupos
 - criação, edição, remoção de usuários/grupos
 - gerência de contas e senhas
 - segurança (senhas fortes)
- monitoração do sistema, resolução de problemas e otimização
 - CPU, mem, rede
 - sistema de arquivos (espaço em disco)
 - usuários
 - logs do sistema (gerência de segurança)
 - performance tuning

Tarefas – Sistemas

- backups
 - restauração de arquivos
- impressoras
 - gerência
- software
 - atualização de pacotes
 - configuração pacotes
 - atualização de segurança

Tarefas – Sistemas

- automação das tarefas
 - scripts
 - crontab

Administração de redes

- A administração de redes tem como objetivo viabilizar o funcionamento de uma rede de computadores, realizando a instalação, configuração e manutenção dos dispositivos (hardware) e serviços (software) que fazem parte de uma rede de computadores.

Tarefas – Redes

- configuração da rede
 - planejamento
 - definição do endereço de rede/subrede
 - definição dos serviços da rede
 - dispositivos que compõem uma rede de computadores (roteadores, switches)

Tarefas – Redes

- configuração das máquinas para acesso à rede
 - nome das máquinas
 - configuração TCP/IP de máquina
 - interface de rede
 - roteamento
- configuração dos serviços da rede
 - ssh, ntp, dns, nfs, nis, dhcp, smtp, pop3
 - firewall (iptables)

You Know You're a Network Administrator When...

[The Network Administrator.com](http://TheNetworkAdministrator.com)

- All of your friends have an @ in the middle of their names.
- Your best friend is someone that you chat with online but have never met.
- You see a beautiful sunset and you expect to save it to your desktop.
- You are overcome with disbelief, anger and finally depressed when you encounter a Web page with no links.
- You ask a plumber how much it would cost to replace the chair in front of your computer with a commode.
- You feel driven to consult the "Cool Page of the Day" on your wedding day.
- You are driving on a dark and rainy night when you hydroplane on a puddle, sending your car careening toward a flimsy guard rail that separates you from the precipice of a rocky cliff and certain death. You frantically search for the "Back" button.

You Know You're a Network Administrator When...

[The Network Administrator.com](http://TheNetworkAdministrator.com)

- When every member in your family has an e-mail account on the mail server where you work.
- You find yourself typing ".com" after every period when using a word processor.com
- When you shut down your router and get an awful sick feeling like someone you love just died.
- When you come home late at night from reconfiguring the servers and your wife draped a blond wig over your monitor and tells you to marry this.
- You refuse to speak to your parents until they get e-mail.
- Your phone bill comes to your doorstep in a box.
- You laugh at people that have modems.
- You move into a new house and decide to Netscape before you landscape.

You Know You're a Network Administrator When...

[The Network Administrator.com](http://TheNetworkAdministrator.com)

- You refer to going to the bathroom as downloading.
- You tell the cab driver you live at <http://123.elm.street/house/bluetrim.html>
- Your spouse makes a new rule: "The computer cannot come to bed." Not even the laptop.
- You start tilting your head sideways to smile. :^)
- You turn on your computer, and turn off your spouse.
- Your spouse says communication is important in a marriage...so you install Instant Messenger on her computer. And when she leaves you, you're :-(
- You begin to wonder how on earth your service provider is allowed to call 200 hours per month "unlimited."

And finally,

- You know you're a Network Administrator if you've sent this page to your yahoo account.