Infraestruturas de Centos de Dados ICD



Equipa Docente

- António Sousa <u>als@di.uminho.pt</u>
- João Tiago Paulo jtpaulo@inesctec.pt



Avaliação

- Exame 50%
- Trabalho prático 50%



Programa

- Arquitectura de Centro de Dados com Elevada Disponibilidade
- Serviços de suporte
- Arquitectura Física de Centros de Dados
- Monitorização e Análise de Desempenho











Web Servers





Web Servers



Application Servers









Web Servers



Application Servers



Database Servers



Engenharia de Aplicações





FW/Load Balancing/ Caching

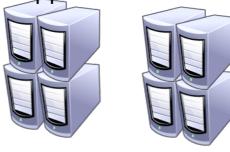


Web Servers





Application Servers





Database Servers









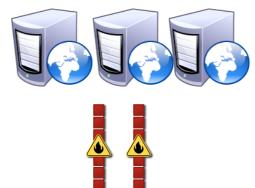
FW/Load Balancing/ Caching



Mail Servers













Database Servers









FW/Load Balancing/ Caching

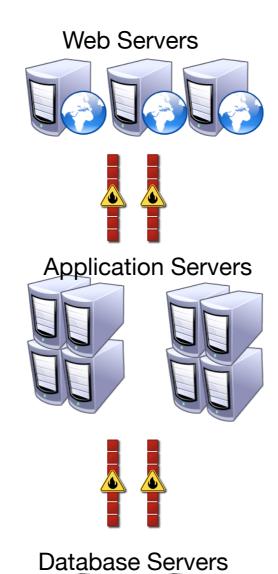


Mail Servers

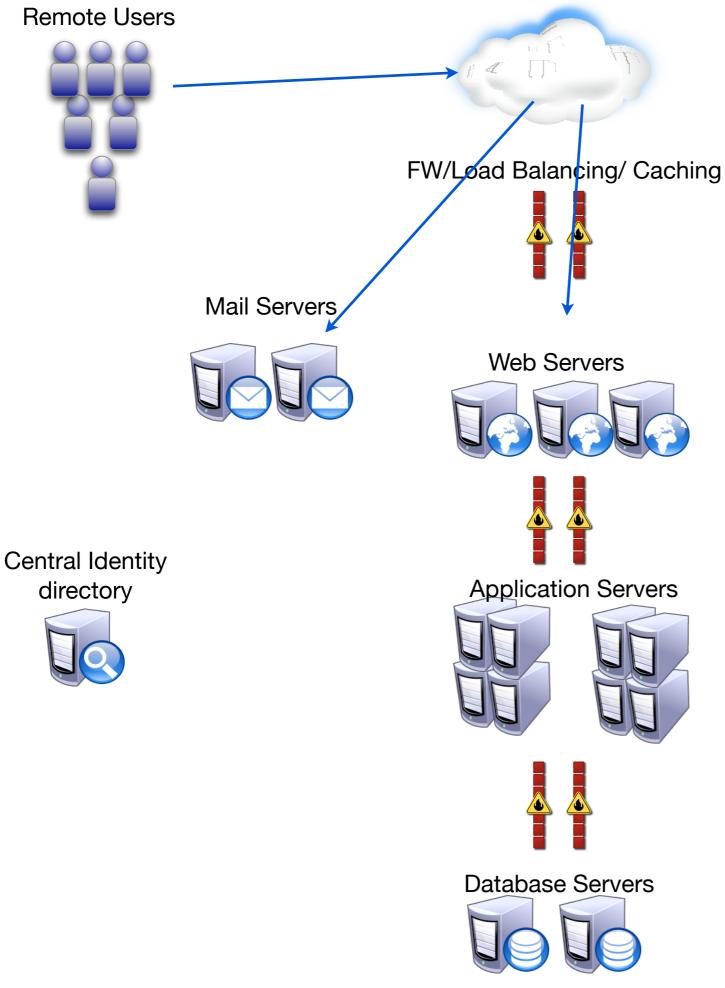


Central Identity directory

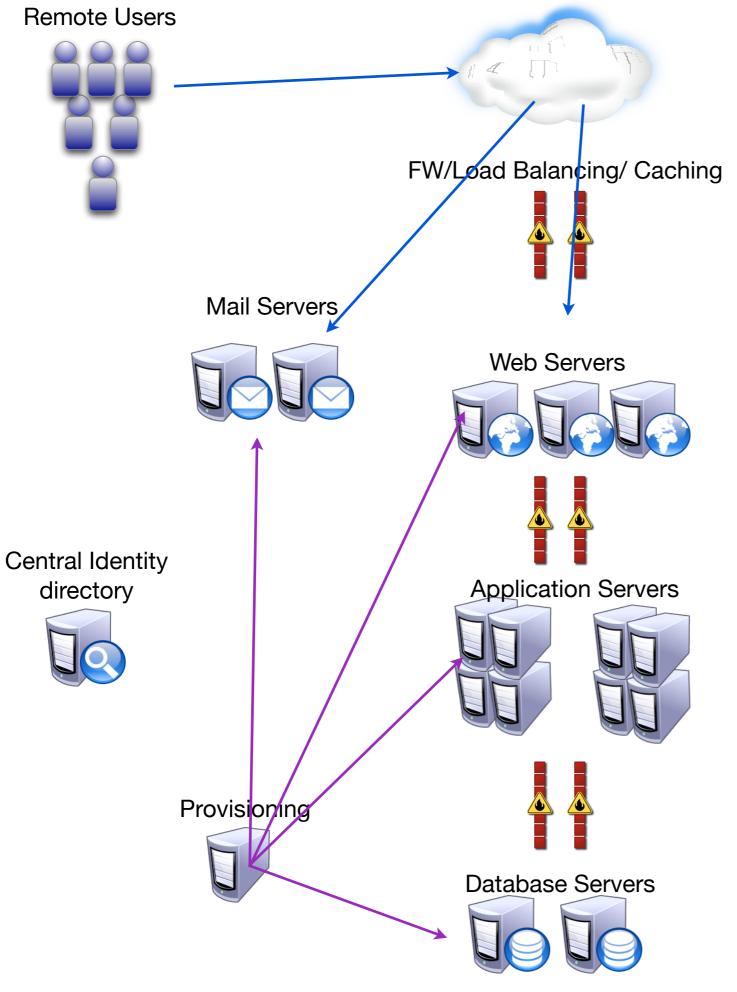




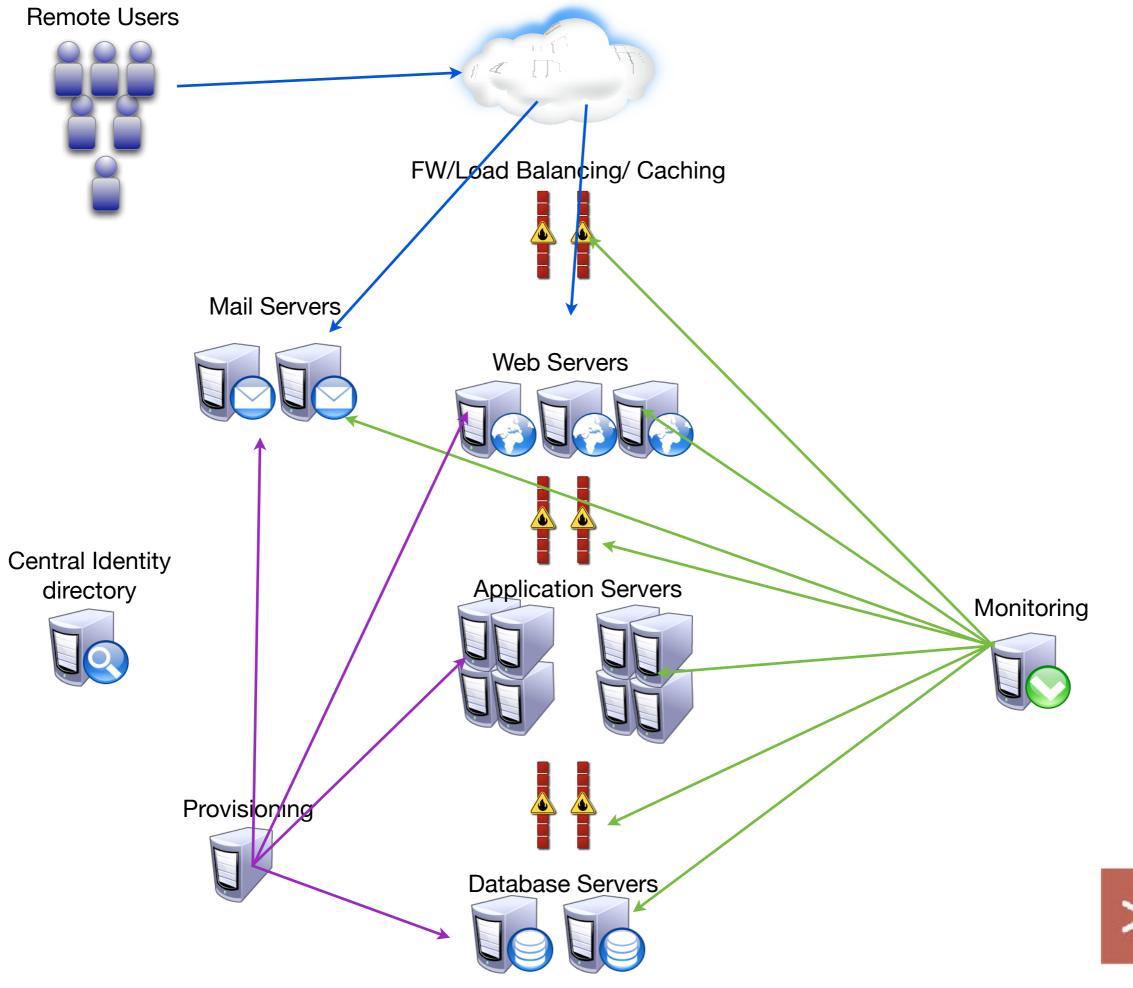


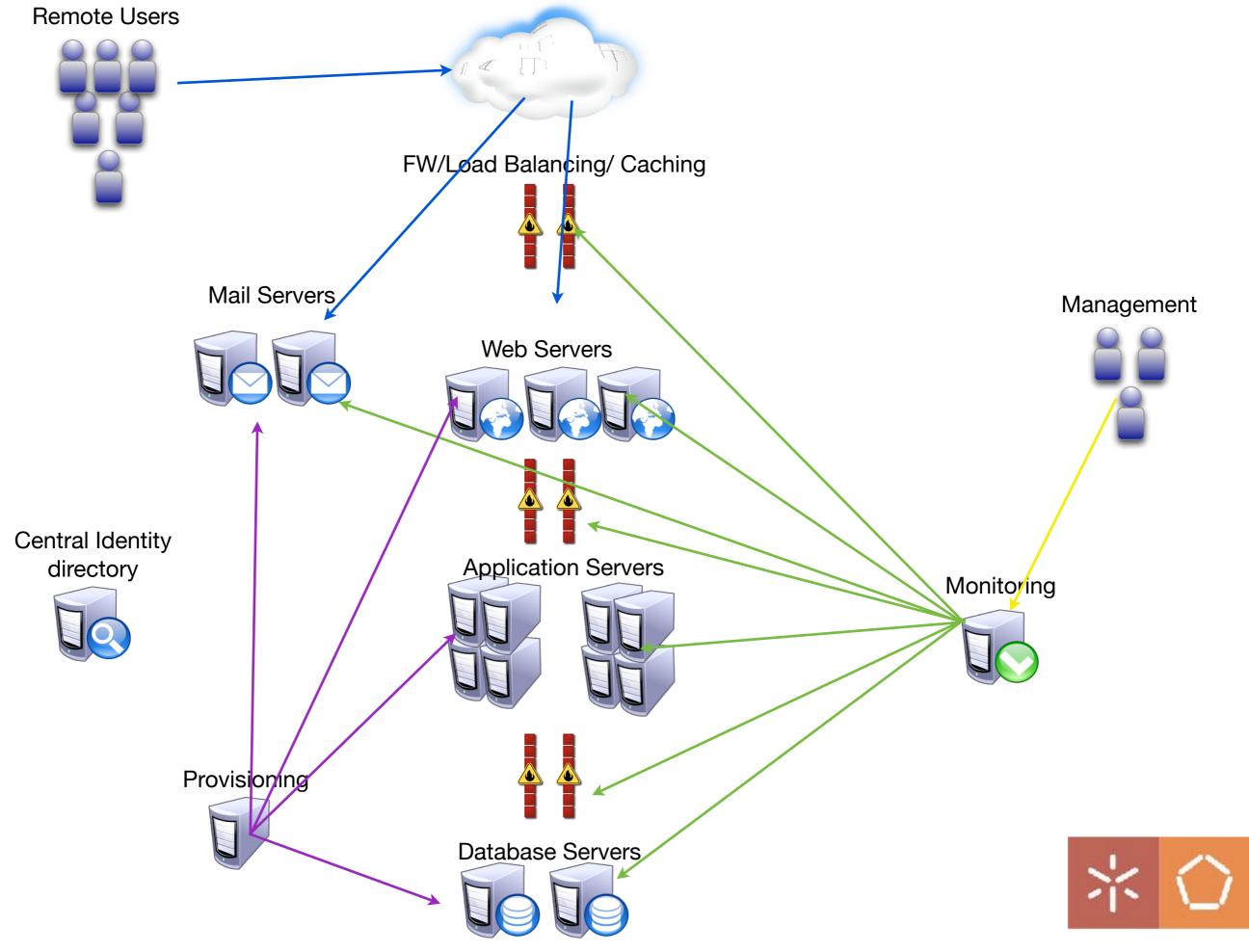


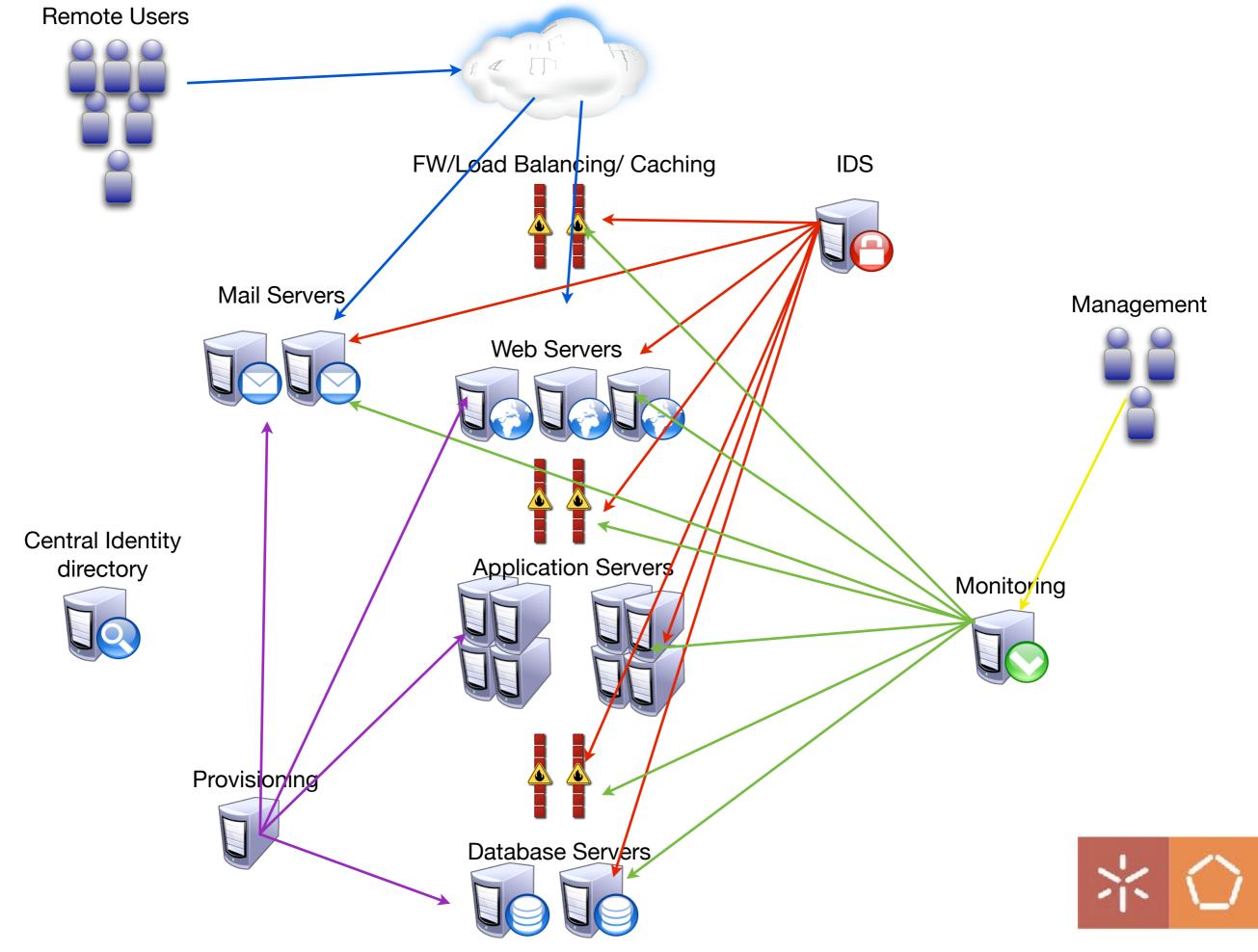












Conduta do Administrador de Sistemas

- A integridade do AS está acima de suspeita
- O AS não deve interferir nas liberdades dos utilizadores
- O AS deve dialogar com todos os interlocutores com o máximo respeito e profissionalismo
- O processo de aprendizagem do AS é contínuo
- A ética profissional do AS deve ser exemplar
- O profissionalismo do AS deve estar presente em todas as actividades
- e o AS ideal



Bibliografia

- The Practice of System and Network Administration,
 Thomas A. Limoncelli, Christine Hogan, Addison-Wesley 2002.
- Principles of Network and System Administration, Mark Burgess, Wiley, 2000.
- Essential System Administration, Æleen Frisch, 3rd Edition, O'Reilly, 2002.
- HTML 3.2 & CGI Unleashed, John December, Mark Ginsburg, SAMS, 1996.
- Learning Perl, 3rd Edition, Randal L. Schwartz, Tom Phoenix, O'Reilly, 2001.



Bibliografia

- Load Balancing Servers, Firewalls, and Caches,
 Chandra Kopparapu, Wiley
- Storage Area Network Essentials, Richard barker, Paul Massiglia, Wiley, 2000.
- Blueprints for High Availability, Evan Marcus, Hal Stern Wiley.
- LDAP System Administration, Gerald Carter, O'Reilly.
- DNS and BIND, Paul Albitz, Cricket Liu, O'Reilly.
- LDAP System Administration, Gerald Carter, O'Reilly.
- RADIUS, Jonathan Hassell, O'Reilly.
- Virtual Private Networks, Charlie Scott, Paul Wolfe, Mike Erwin, O'Reilly.

Bibliografia

- SSH, The Secure Shell: The Definitive Guide, Daniel J. Barrett, Richard E. Silverman, Robert G. Byrnes, O'Reilly.
- Apache: The Definitive Guide, Ben Laurie, Peter Laurie, O'Reilly.
- RT Essentials, <u>Dave Rolsky</u>, <u>Darren Chamberlain</u>,
 <u>Richard Foley</u>, <u>Jesse Vincent</u>, <u>Robert Spier</u>, O'Reilly.
- Essential SNMP, Douglas Mauro, Kevin Schmidt, O'Reilly.
- TCP/IP Network Administration, Craig Hunt, O'Reilly.
- Nagios, Wolfgang Barth O'Reilly.

