

Is a series of professional, quality engineering services focused on meeting the needs of our customers. For us, providing excellent services is our top priority. For that same reason, we strive to know every one of our clients, and with the use of innovation and technology, we focus our efforts on providing solutions that fit, meet and exceed each our client's needs and expectations.

## PROFESSIONAL SERVICES NETWORK LAN

- Commissioning and configuration of Switched data networks (Switch L2-L4 in HP Networking, CISCO).
- Wireless network configuration Wi-Fi (Aruba, HP and Cisco)
- Installation and configuration of web tools to manage IPv4 y IPv6.
- Installation and configuration of WEB based management and monitoring tools SNMP- based devices and RMON groups.
- Installation and configuration of AAA Solutions (ITRADIUS).
- Sizing of VLSM/ CIDR in IPv4.
- Migration of networks from IPv4 to IPv6.
- UTM solutions configuration for SonicWall and Fortinet.
- Configuring virtualization solutions on VMware.

## SOFTWARE DEVELOPMENT

- Infrastructure services in Linux: Allows you to deploy and manage structural services of an organization at the software level, namely: Communications, security productivity, logistics and management.
- Distributed services (WS, XML, JSON):
  - Allows integration of systems with different service platforms, using public API's.
  - Allows you to optimize corporate processes, reduce costs and ensure the availability of information.
- Android: Mobile consumer application development, or as value added for a solution.
- Din Dynamic web applications.
- Multi-purpose development in Python.
- Development of applications for different environments (desktop, web, mobile, etc.) and different platforms (Windows, Linux, Mac OSX, etc.) guaranteeing minimal wear and best optimization possible.
- Multi-Purpose Development in C#/ Mono: Develop MONO to create excellent, multi-platform, efficient and secure apps at a low operating cost.
- Database development and management: keeping information secure, reliable and affordable for SQL data managers (ORACLE, Informix, DB2, MySQL, PostgreSQL).

- **NO SQL Information Management:** Document-oriented database (MongoDB) KV storage in Memory (Redis) or storage based on messages decisions (RabbitMQ).
- **Developing Custom Linux Distributions:** it is often useful to deploy a single service platform over a single LINUX distribution however, the maintenance and update scheme for general distributions is often complex to handle in the long run or directly expensive to own a one-time service license; For these reasons, having your own distribution that is optimized for the required services provides greater confidence and security in the long run. It is also an excellent way to bring complex software products to cloud computing scenarios or software embedded in certain hardware devices.
- **General Application Development:** Development of specific applications with currently demanded technologies such as: C/C++, JAVA, JAVA EE, Spring, PHP, Symfony, NodeJS, AngularJS, SmallTalk, Squeak, Lua.
- **Development of interactive entertainment oriented applications** such as: Corona SDK, Microsoft XNA, Unity3D y Blender.

## SUMMARY

- **Development of custom Linux distributions:** Construction of Linux distributions based on Debian for any compatible hardware platform. Customized distributions are particularly focused on a small number of services, thereby achieving higher levels of performance than those offered by generic solutions.
- **Infrastructure services on Linux:** Deployment of integral computing solutions on Linux platform, with open source tools and services. It meets all the logical infrastructure needs of an entity, allowing easy integration with external resources.
- **Mobile application development:** Construction of general purpose applications for mobile operating systems (Android, iOS), focused on resource optimization and fragmentation reduction.
- **Web Development:** Creation of web applications under high quality standards, which take full advantage of the emerging technologies of the modern web, offering a satisfactory and consistent user experience at all times.
- **Software Development:** Construction of applications and services for all kinds of environments, focused on performance, stability and security.
- **Deployment of Docker / Kubernetes Environments:** Construction or Migration of applications and services to the Docker container scheme, with support for the Kubernetes orchestrator. It offers maximum performance and flexibility for the deployment of software solutions, with the minimum consumption of computing resources.
- **Data engineering:** Construction, management and operation of data banks, whether they are of a classical scheme (SQL), or oriented to documents or of a dispersed nature. Information is the most precious asset for any entity, so keeping it always safe and accessible is a vital priority.

- Deep knowledge and experience of the ORACLE database engine:
  - Installation, configuration, tuning in contingent scenarios, design, application, maintenance and testing of contingent scenarios and business continuity plans, with Oracle's own tools such as RMAN, Data Guard, RAC and third-party tools such as the replication of ORACLE SharePlex.
- Great strength in refining processes through ORACLE enterprise manager and / or directly with the dynamic views of the engine since we have experience in development in PL/SQL, thus being able to detect processes with high consumption of time, resources or that generate blockages.
- Design of backup and recovery strategies according to the environment that is in production, from version 9 to 12, manual and / or automatic copies.
- All this experience has been acquired tested and demonstrated in real production environments and on critical applications.

## ORACLE DB SERVICES:

SERVICE	SCOPE	DETAIL
Migration	Between platforms.	Migration between different operating systems or versions of the same operating system.
	Between different manufacturers or types of databases.	Migration between ORACLE and MYSQL or vice versa and others systems.
	Between RDBMS versions.	RDBMS version update. Our experience is only until version 11.
Tunning	Database.	Improvement in the technical performance of the database, storage, indexes, Blockages.
	Business Process.	Accelerate for slow processes and long.
<b>Backup and Recovery</b>	Manual.	Backups with the Operating System tools.
	EXP/IMP.	Import, export for high level recovery, this includes information, not functionality in the database.

## ORACLE DB SERVICES:

	RMAN	<b>Backup and recovery</b> for functional purposes, no data involved.
	StandBy Database	Database with ArchiveLog application manual, applies to companies that want information up to a moment specific in the past.
Replication	DataGuard	Good option for users with ORACLE Enterprise Edition, it is included. Allow database replication for places local or remote.
	SharePlex	This is a Dell product, it allows database replication between platforms.
	RAC	Real Application Cluster, allows several online nodes to process the same base of data.
Security Policies	Database Profiles	Definition and application on access control.
	Access by product	Control incoming connections to the database according to the product.
	Logs Generation	Intellectual information about changes in data by tables critics.
	Logs Review	Generate statistics, alerts and reports on changes in critical tables.
	Oracle audit	Activate Oracle Audit to record user activity and changes (this option is only about the activity, for example, updating in the EMP table, but not very useful when you need to know about the data modified).