Database and systems administrator and ICT security specialist

Average salary: $86,000+
Career trend: strong

Job description

The information stored in a business’s computer network is invaluable. Database and systems administrators and ICT security specialists ensure systems in their care are one step ahead of security threats, keeping servers backed up and up-to-date.

What database and systems administrators and ICT security specialists do

Database and systems administrators plan and manage an organisation’s operating and database management systems. They anticipate the needs of systems and the network, organise, install and support network hardware and software, carry out upgrades and repairs, and train users. They also fix problems reported by staff or automated alerts.

ICT security specialists focus on ensuring that information transmitted over a company’s computer network is protected. They plan and manage an organisation’s security policies and procedures to ensure database and system integrity, security, backup, reliability, and performance.

This includes monitoring systems for online threats and preventing disruption or misdirection of these services. Due to the rise of hackers and cybercrime, ICT security specialists often collect evidence to be used in criminal prosecution.

You’ll like this job if...


Will I get a job?

• Strong growth in this occupation is predicted with 4,300 new jobs in Australia in the next four years, bringing the total to 41,000.

What will I earn?

• Over $1,650 median full-time weekly salary (before tax, excluding super).

Roles to look for

• Database administrator
• Database operator
• Database specialist
• Database support
• ICT security specialist
• ICT security administrator
• Systems administrator
• Systems manager
A day in the life...

Work as a database and systems administrator and ICT security specialist may involve:

- design and maintain database architecture, data structures, tables, dictionaries, and name conventions to ensure the accuracy of master files
- perform preventive maintenance of backups and recovery procedures
- enforce security and integrity controls
- oversee database guidelines, policies, and procedures
- de-bug, track, reproduce, log, and resolve all identified problems
- liaise with security vendors, suppliers, service providers, and external resources
- analyse, recommend, install and maintain software security applications
- monitor contractual obligations, performance delivery and service level agreements
- troubleshoot and provide service support in diagnosing, resolving and repairing server-related hardware and software malfunctions
- survey computer sites to determine future network and server needs.

VET qualifications

The following government-subsidised qualifications are available in NSW:

Diploma of Database Design and Development (ICT50515)
- Up to 2 years full-time
- Graduates employed or in further study: 77.6%*

Diploma of Information Technology Systems Administration (ICT50315)
- Up to 2 years full-time
- Graduates employed or in further study: 77.6%*

Advanced Diploma of Network Security (ICT60215)
- Up to 2 years full-time
- Graduates employed or in further study: 77.6%*

VET offers possibilities for hundreds of careers.

For more information, visit

www.vet.nsw.gov.au


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