
Position Description

INFRASTRUCTURE ENGINEER – DEVOPS

BUSINESS UNIT:	Systems Administration
REPORTS TO:	Chief Information Officer
MANAGEMENT:	Direct reports: 0
LOCATION/S:	Brisbane or Melbourne
POSITION TYPE	Permanent full-time

About AARNet

Australia's Academic and Research Network (AARNet) was established in 1989 and is widely regarded as the founder of the Internet in Australia and renowned as the architect, builder and operator of world-class network infrastructure for research and education.

We are Australia's National Research and Education Network (NREN). We connect over one million users—researchers, faculty, staff and students—at institutions across Australia, supporting education and research across a diverse range of disciplines including high energy physics, climate science, genomics, radio astronomy and the arts.

Nationally, AARNet interconnects Australian universities, the CSIRO, and other organisations who have a research and education mission, or with whom the education and research sector interacts. These include hospitals, vocational training providers, schools and museums. Internationally, AARNet interconnects the Australian Research and Education (R & E) community to the world – and continuously develops new capabilities and partnerships to facilitate seamless data access and transfer.

AARNet also offers a suite of supporting applications to our customers. These include network and collaboration services such as CloudStor and Zoom, that enable innovation in the delivery of research and education.

We are an organisation of innovators, doers, and courageous thinkers. We are not constrained by traditional products and solutions and we constantly strive to build the solutions that our customers will need tomorrow – today. If you have the imagination, foresight and drive to build the future why not come and join us?

The Role

We are seeking an Infrastructure Engineer to work with Cloud Services team in a DevOps environment to deliver high quality cloud storage and compute services, and to develop new and improved services.

This role is an excellent opportunity for a person wanting to bring their skills to a major national network and storage

infrastructure provider. The successful candidate will be a member of the Cloud Services team and will collaborate on both local and international projects. The purpose of these projects is to deliver large, scalable data storage solutions and private cloud compute platforms to support the Australian research and education sector.

The successful candidate will have demonstrable skills in:

- Software Engineering;
- Containerisation
- Networking;
- Linux server deployment; and
- System administration

Additionally, the successful candidate will be able to demonstrate an understanding of contemporary storage systems and interfaces, including S3.

Responsibilities

INFRASTRUCTURE ENGINEER

- Assist the Technical Lead to scope, analyse, design, develop, test, deploy, document and support internet-based data-storage applications and cloud compute platforms;
- Execute projects using an agile based methodology, report on progress against project tasks and milestones and assist in identifying project issues;
- Administer infrastructure, applications and services in a production environment;
- Monitor and maintain operational integrity of services and assist service desk staff in resolving issues;
- Develop and deploy real-time infrastructure monitoring services; and
- Design and implement service APIs and specialised service protocols and endpoints.

INNOVATION AND IMPROVEMENT

- Identify new and emerging technologies to keep AARNET at the forefront of cloud and data oriented service delivery;
- Interact and engage with Australian and international organisations to create alliances for service promotion, technology development and technology trials;
- Where appropriate, contribute to the scientific and IT community via papers, presentations and posters; and
- Identify and contribute to opportunities for improving services through ongoing reviews of infrastructure, systems and processes.

TEAM WORK & RELATIONSHIP MANAGEMENT

- Actively collaborate with a geographically dispersed team and stakeholders to contribute to project outcomes;
- Share knowledge and assist team members with skills development;
- Represent AARNET at conventions, conferences, seminars and official occasions as required; and
- Participate in developing and maintaining relationships within the education and research sectors as well as with key non-sector stakeholders.

Expertise, experience & qualifications

Required

- Tertiary qualifications in a computing related discipline or significant and proven industry experience;
- Experience in system administration with Linux administration and scripting skills;
- Experience in managing virtual machines and storage through IaaS platforms such as OpenStack;
- Mature coding skills, preferably with experience in PHP; and
- Experience in managing and sharing code and documents using version control services.

Desirable

- Experience with any or all of the following languages:
 - Go;
 - C/C++;
 - C#;
 - Python;
 - JavaScript and JavaScript frameworks (e.g. Node.js, Sails.js, Angular 2+); and
 - HTML5/CSS;
- Understanding of and experience with virtualisation and containerisation of applications and cloud based orchestration;
- Experience in developing applications for a CI/CD environment;
- Database development, including SQL and Key-Value store based platforms ; and
- Experience in authentication service integration, including Kerberos/LDAP, Active Directory, OpenID Connect and SAML services;

Important skills

Required

- Be self-motivated and able to fulfil project objectives with minimal guidance;
- Ability to follow a methodical, process based approach; Team player, willing to work with the team to achieve the stated goals and able to provide support and guidance to team members where required;
- Excellent interpersonal, written and oral communication skills with the demonstrated ability to interact effectively with collaborators and stakeholders to achieve positive project outcomes; and
- Demonstrated effective problem solving skills with the ability to perform research and effectively engage with others to develop solutions for difficult problems.

Desirable

- Knowledge of the tertiary education and academic research sector; and
- Demonstrable understanding of research data management principles and processes.

Conditions of employment

AARNET is committed to diversity and providing equal opportunity to all. We're a great place to work if you want to make a difference. Remuneration will be based on skills and experience and will include an above market superannuation package.

How to apply

Applications, including a resume/CV and cover letter addressing the requirements of this role, should be sent by e-mail to employment@aarnet.edu.au. Closing date for applications: May 3, 2019.