

# DevOps Security Automation

Ensure software security isn't compromised in a fast-paced development life-cycle.

DevOps is a methodology that aligns your software development processes with your IT operations. The goal is to efficiently build, test and release software. Through cultivating a culture of collaboration between the software development and IT operations teams, your organisation can deliver new and improved software with greater efficiency. That benefits both your organisation and clients. However, ensuring your software's security posture isn't compromised in a fast-moving development life-cycle is essential. This course will help you integrate security at every opportunity through automating repeatable security tasks.



## Who should attend?

Executives and Project Managers



## Delivery mode

In person



## Duration

1 x Day

## About this training module

Through integrating your software development pipeline and IT operations, it becomes possible to build, test and release software with significantly improved rates of efficiency. Whilst this has many advantages, maintaining strong security provisions can be a challenge. Through embracing automation, it becomes possible to ensure security isn't compromised in the interests of speed.

This live and interactive workshop is conducted by CyberCX's Research and Technical Assurance practice. With extensive experience assisting clients in implementing highly secure CI/CD pipelines, our team of experts regularly present their research at leading national and international forums.

## Benefits:

This training course will enable participants to:

- ▶ Adopt assessment methods that provide a higher degree of assurance that they are identifying realistic attack vectors
- ▶ Independently analyse past and present cyber incidents in the context of your organisation in order to accurately rate risk exposure
- ▶ Judiciously choose controls to mitigate risks

This training course contains technical concepts and assumes a general understanding of coding, though is not language specific. Participants will gain practical skills in using tools and techniques that facilitate secure application development and deployment, as well as enhancing the security of the entire DevOps environment. By looking for all opportunities to automate the remediation of common security problems throughout the entire development lifecycle, you'll be able to focus your attention on more complex security challenges, resulting in more secure software.

Our modular DevOps Security Automation Training is delivered over 1 or 2 days and covers the following topics:

Day 1	Day 2
<ul style="list-style-type: none"> <li>• The case for embedding security in high-velocity DevOps environments</li> <li>• Securing the entire DevOps system and managing risk</li> <li>• A defence-in-depth approach for improving code quality and detecting defects early</li> <li>• Identifying known-vulnerable third-party libraries and managing the supply chain risk</li> <li>• Using continuous monitoring tools to detect changes across the entire DevOps stack</li> <li>• Self-healing management and remediation of misconfiguration and enforcing policies</li> <li>• Custom solutions versus using existing platforms and tools to get immediate results</li> <li>• A methodology for crawl, walk and run; ways to ensure a path to DevSecOps maturity</li> <li>• A real-world attack simulation involving a DevOps stack hosted on Amazon AWS, demonstrating the tactics and automated techniques covered in this training course</li> </ul>	<ul style="list-style-type: none"> <li>• Application Security               <ul style="list-style-type: none"> <li>◦ Best practice awareness</li> <li>◦ Coding helpers and IDE tools</li> <li>◦ Developer sandboxing</li> <li>◦ Static Analysis Security Testing (SAST)</li> <li>◦ Dynamic Analysis Security Testing (DAST)</li> </ul> </li> <li>• OS/networking protection               <ul style="list-style-type: none"> <li>◦ Visualisation of network configuration</li> <li>◦ Continuous monitoring techniques</li> <li>◦ Alerting of non-compliant environments</li> </ul> </li> <li>• Platform resilience               <ul style="list-style-type: none"> <li>◦ Auto-enforcement of configuration policy</li> <li>◦ Self-healing &amp; automated platform tools</li> <li>◦ Server-less event driven security</li> </ul> </li> </ul>

## Why Education and Training with CyberCX?

- ▶ Expertise delivering context-rich training and education across industry, higher education, government, military and intelligence
- ▶ Dedicated program managers to coordinate planning, training activities and improvement tracking
- ▶ Solutions purpose-built to deliver results by helping acquire, retain, develop and enhance knowledge, skills and understanding
- ▶ Highly flexible options and delivery methods designed to deliver the right training in the right way
- ▶ Highly qualified and globally recognised cyber security trainers and experts

## About CyberCX

CyberCX is Australia's leading independent cyber security services company.

CyberCX delivers end-to-end cyber security services and Australia's best cyber security talent with the most comprehensive range of cyber security services to business, enterprise and government.

Contact us to find out how CyberCX can boost the cyber security skills of your entire organisation.

 [www.cybercx.com.au](http://www.cybercx.com.au)

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