

Autonomous Analysis and Verification of distributed e-Government Systems



Motivation and Goals

The project "AuVeGoS" develops a framework for autonomous analysis and verification of e-government systems, to ensure security, availability and service quality. For this purpose, e-government service architectures are analyzed for vulnerabilities and measures for improvement of the security configuration are implemented. An instrument for this will be the connection to a simulation environment that will be integrated into the process of decision making.

The AuVeGoS framework is composed of:

- Components for extraction of security relevant information from standardized public vulnerability databases
- Components for distributed data analysis of the extracted information and creation of attack graphs
- Components for simulation based evaluation of possible mitigation strategies
- A decision support system component

The focus of AuVeGoS is the preventive identification and elimination of potential exploitation opportunities based on vulnerabilities identified in the infrastructure's configuration to be protected.

PROJECT OVERVIEW

PROJECT TITLE

Autonomous Analysis and Verification of distributed e-Government Systems

WHAT IS IT ABOUT?

In "AuVeGoS" a software application that analysis and scans autonomous e-Government systems is developed. Main focus is on evaluation of the current security situation and recommending improvement suggestions.

RUN-TIME

06/01/2013 to 05/31/2016

PROJECT MANAGER

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<http://www.gt-arc.com/projects/auvegoss/>

BUZZWORDS

IT-Security, analysis and scanning of services, preventive identification and elimination of vulnerabilities of an infrastructure

SPONSOR



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