

Intern Requirement

No. of students required	1-2
Preferred Discipline	<ul style="list-style-type: none">• Computer Science• Computer Engineering
Prerequisites/ Skills Required	<ul style="list-style-type: none">• Strong interest in computer and security• Foundational knowledge in networking principles• Preferably with experience in C programming

Project Details

Title	Security Assessment of Linux Window Managers
Overview/Background	<p>Linux uses a variety of Window Managers namedly Gnome Display Manager (gdm), KDE Display Manager (kdm) etc.</p> <p>Window Managers are widely deployed on many Linux based servers and there is little study on the security model of the Managers. We would like to assess the security of such Window Managers, taking into consideration the various methods of accessing them.</p>
Objectives/Scope/ Deliverables	<p>The aim of this project is to assess the method(s) in which a Window Manager would be susceptible to attacks and how such attacks can be mitigated or prevented.</p> <p>Scope:</p> <ul style="list-style-type: none">• <u>Proof-of-concept for attacks</u>. The interns will be tasked to demonstrate how a Window Manager security could be compromised.• <u>Detection of attacks</u>. The interns will research into mitigation methods to detect attacks on the Window Manager. <p>Deliverables:</p> <ul style="list-style-type: none">• a set of source codes to demonstrate the method(s) to perform/mitigate attacks• method(s) to perform/mitigate attacks
Project Duration	<input checked="" type="checkbox"/> 2-4 months, or <input checked="" type="checkbox"/> 6 months