**OPERATING SYSTEM**

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**ABSTRACT:**

So here we are trying to give a over view in the technical research areas in operating system we are here providing some value and assessment of the work reviewed we have also included some future works in the field of operating system we have basically provide an illustration and information about the necessary technology. Basically it is trade off between the security and the cost of isolation for the security purpose is depends on the isolation

We are further describing the two isolating methods.

For security purposes we need to design and implemented it as a secure system. We use verification method to examine the correctness of operating system design and its implementation in a large operation system it is necessary to concerned the secure elements in the kernel for that purpose the notion of kernel is always examined penetration tests are also examined here we have also included an up to date bibliography since 1947 for the readers to have an coherent coverage of various topics in operating system security, we have endeavored to give our personal views of various subject matters. We would like the reader to bear with us in the expression of these views.

And in further of operating system security we are discussing about the remote code injection attacks that how to save or secure our system from this attack we are further discussing about the attacks and techniques below down

This is about limiting the scope of remote code injection attacks.

These techniques limit the abilities of attacker and also prevent injecting code for making system calls. This technique raise the bar for compromising the host system but it is impractical in the context of remote code injection attack. There are two possible approaches first is to identify the location of system instructions. the modifications which we propose are transparent to user level.

The second technique is that we make a backup using different techniques in which one of the technique is to encode system call traps in OS kernel in order to detect mimicry attacks Experiments indicate that our approach is effective against a wide variety of code injection attacks.

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<file:///C:/Users/Rameez/Downloads/Protecting%20against%20unexpected%20system%20calls.pdf>