**Novel Multi-Keyword Search on Encrypted Data in the Cloud**

**ABSTRACT:**

Searching On Encrypted Data Has Become A Very Important Technique In Cloud Computing. Suchsearchesenablethedataownertosearchontheencrypteddatastoredonthecloudwithoutleakingany Information. To Obtain A Better Search Experience, Researchers Have Proposed Many Schemes Which Mainly Focus On Conjunctive And Disjunctive Keyword Searches. However, A Conjunction Of All The Keywords May Result In Very Few Results, Whereas A Disjunction Will Return Too Many Results. With The Current Schemes, Customizingtherelevancyofthekeywordstoobtainthedesiredresultsisdifﬁcult.Tosolvetheseproblems, We Propose A Novel Scheme That Supports The Search With The User Speciﬁed Number Of Keywords Contained In The Search Result. This Number N Can Be Used To Customize The Keyword Relevancy. As A Result, The Data Owner Could Obtain The Desired Search Results Containing Any N Keywords Of A Keyword Set. The Proposed Scheme Also Supports The Traditional Disjunctive And Conjunctive Keyword Searches When N Equals 1 Or The Sizeofthekeywordset,Respectively.Thekeywordcouldbepositiveornegative.Weﬁrstformallydeﬁneits Security, Then Prove That The Proposed Scheme Is Secure Against The Adaptive Chosen Keyword Attack In The Standardmodelandcandefendagainsttheofﬂinekeywordguessingattacktosomeextent.Furthermore,We Present A Theoretical Performance Comparison With Other Schemes, As Well As The Experimental Performance Evaluations On Our Implemented Scheme.

**SYSTEM REQUIREMENTS:**

**HARDWARE REQUIREMENTS:**

* System : Pentium Dual Core.
* Hard Disk : 120 GB.
* Monitor : 15’’ LED
* Input Devices : Keyboard, Mouse
* Ram : 1 GB

**SOFTWARE REQUIREMENTS:**

* Operating system : Windows XP/UBUNTU.
* Implementation : NS2
* NS2 Version : 2.28
* Front End : OTCL (Object Oriented Tool Command  Language)
* Tool : Cygwin (To simulate in Windows OS)