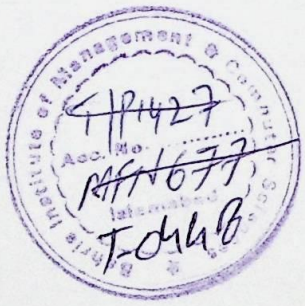
KSCRTS

Kerberos Secure Communication in Real Time System



Developed by:

Mobeen Akhtar (244002-008-CS/MCS)

(Year 2004)

Supervised by:

Madam Farzana Khan

Department of Computer Sciences

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Islamabad


بسم الله الرحمن الرحيم

Bahria Institute of Management & Computer Sciences,
Islamabad.

March 26, 2004

Final Approval

It is certified that I have read the project titled "KSCRTS" submitted by Muhammad Reahan and Mobeen Akhtar. It is my judgment that this project is of sufficient standard to warrant its acceptance by Behria University for the Master degree in computer sciences.

Committee

Head of Department: _____

External Examiner: _____

Internal Examiner: _____

Supervisor: _____

Madam Farzana Khan
Department of Computer Sciences
Bahria Institute of Management & Computer Sciences Islamabad

DECLARATION

We, hereby declare that "KSCRTS" software, neither as a whole nor as a part of has been copied out from any source. It is further declared that we have developed this software and the accompanied report entirely on the basis of our personal efforts made under the guidance of kind supervisors & PAF Engineers. No portion of the work presented in this report has been submitted in support of any application for any other degree or qualification of this or any other university or institute, if found we will stand responsible.

Muhammad Reahan

Mobeen Akhtar

DEDICATED TO

Our parents

For their love, prayers and much more...

&

Our teachers

For their valuable guidance, assistance and much more…

ACKNOWLEDGEMENTS

No words can express our gratitude to Almighty ALLAH who bestowed his kindness upon us, enabling us to complete this tedious and challenging task in time.

We would like to pay our heartiest tribute to our supervisor Madam Farzana Khan, for providing the skills and imparting the knowledge, necessary to coup up with the challenges to build this software and making this idea to reality world. Her all time appreciation has been the motivating force behind the successful completion of this software

We would also like to thank System Engineers Sqd Leader Abdullah and Sqd Leader Adeel from Pakistan Air Force for providing all the necessary assistance, guidance facts and figures to the best of their knowledge & special thanks to the Director of the Project Vision for his kind propensity.

Salutations to my loving parents for their invaluable prays, salutary advises and emboldening attitude kept our spirit alive to strive for knowledge and integrity, which enabled us to reach this milestone.

A DISSERTATION SUBMITTED TO THE
DEPARTMENT OF COMPUTER SCIENCE
BAHRIA INSTITUTE OF MANAGEMENT AND COMPUTER SCIENCES, ISLAMABAD
AS
A PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE AWARD OF DEGREE OF
MASTER OF COMPUTER SCIENCE

PROJECT IN BRIEF

Project Title:	KSCRTS
Objective:	To develop a Kerberos Secure Communication System that will be used for Resource Administration & Monitoring over PPP Link.
Undertaken By:	Muhammad Reahan & Mobeen Akhtar
Supervised By:	Madam Farzana Khan
Controlled By:	Madam Farzana Khan
Verified By:	Madam Farzana Khan
Version:	1.0.00
For:	BIMCS (Bahria Islamabad)
Tools & Technologies:	QT Designer Forte Developer Workshop C++.
Operating System:	Solaris 8.
Date Started:	June 14, 2003
Date Completed:	March 26, 2004
System Used:	Sun Blade 100 (2)

ABSTRACT

Security and quality of service in Real Time System networks is the basic requirements which contribute to provide realistic parameters. The software will be used in administration and monitoring of the network resources in a secure manner. Network resources belong to different component of the Real Time System. There are two major parts of the application. One part will purely be used for administrative purposes. The second part is monitoring of different component of the system. It is highly required to have an application for the Centralized Resource Management. Our application is used for Secure Centralized Resource Management. The KSCRTS is a UNIX based system. The entire system as a whole, the individual servers, and the individual sessions all are secured. All of the communication between Side B and Side C is on Legacy system leased lines by using the Asynchronous modems. Our application is capable to meet all the desired requirements.

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