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7	Mr. Anil Kumar Jain	9460508523	796923064529	27/01/1978	M.Sc., B.Ed.	2003	PG
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11	Ms Grace Latha	9461808061	533393393048	06/05/1966	M.Com., M.B.A.	2005	12
12	Mr Sunil Kumar Sharma	8824171351	924781120522	01/06/1975	M.Sc.(Comp.Sc.)	2003	12
13	Ms Pratima Vashishtha	9672981938	582580736484	28/05/1976	M.Sc., B.Ed.	2003	PG
14	Mr Prashant P Narayan	7737882266	363412424893	15/08/1977	M.Com. B.Ed.	2009	10
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MOHANLAL SUKHADIA UNIVERSITY: UDAIPUR

PROFORMA FOR SUBMISSION OF PROGRESS REPORT

Period of Report: From..... to..... Six Monthly/Annual

1. Name of the Candidate:
2. Department
3. Name of Institution
4. Name of Supervisor:
5. Date of Joining:
6. Title of thesis:
7. Fellowship if any received during the period of report:
8. Are you employed (If yes, give details of employment)
9. No. of days reported to the supervisor during period of report:
10. No. of days visited the university libraries for reference work:
11. Details of research work carried during the period of report:
12. Research paper (s) published /submitted for publication
13. Details of seminars/workshops/Training programmes attended
(Both at the University and other places)
14. Give details of seminars/Ph.D.viva Voce/extension lectures organized in the department attended by the candidate

Date:

Signature of the Candidate

Address:

Mobile No.

CERTIFICATE

Candidate submitted his progress report on..... Progress of the research work carried out by the candidate during the period of report is

Date:

Signature of the Supervisor

CERTIFICATE BY HEAD OF THE UNIVERSITY DEPARTMENT

(required only for annual report)

This is to certify that the candidate presented his research work before the departmental committee on..... and progress of the research work of the candidate during the period of report is found

Date:

Signature of Head

RECEIPT (FOR OFFICE USE)

Progress report received on Inward No..... Entered in the Ph.D. scholar Register as and updated web site database on

No of days delay in submission of Progress report:

DEAN,PGS

Introduction to Ethical Hacking

- Ethical hackers
 - Employed by companies to perform penetration tests
- Penetration test
 - Legal attempt to break into a company's network to find its weakest link
 - Tester only reports findings, does not solve problems
- Security test
 - More than an attempt to break in; also includes analyzing company's security policy and procedures
 - Tester offers solutions to secure or protect the network

Hands-On Ethical Hacking and Network Defense

1

The Role of Security and Penetration Testers

- Hackers
 - Access computer system or network without authorization
 - Breaks the law; can go to prison
- Crackers
 - Break into systems to steal or destroy data
 - U.S. Department of Justice calls both hackers
- Ethical hacker
 - Performs most of the same activities but with owner's permission

Hands-On Ethical Hacking and Network Defense

2

The Role of Security and Penetration Testers

- Script kiddies or packet monkeys
 - Young inexperienced hackers
 - Copy codes and techniques from knowledgeable hackers
- Experienced penetration testers write programs or scripts using these languages
 - Practical Extraction and Report Language (Perl), C, C++, Python, JavaScript, Visual Basic, SQL, and many others
- Script
 - Set of instructions that runs in sequence

Hands-On Ethical Hacking and Network Defense

3

It Takes Time to Become a Hacker

- This class alone won't make you a hacker, or an expert
 - It might make you a script kiddie
- It usually takes years of study and experience to earn respect in the hacker community
- It's a hobby, a lifestyle, and an attitude
 - A drive to figure out how things work

Hands-On Ethical Hacking and Network Defense

4

The Role of Security and Penetration Testers

- Tiger box
 - Collection of OSs and hacking tools
 - Usually on a laptop
 - Helps penetration testers and security testers conduct vulnerabilities assessments and attacks

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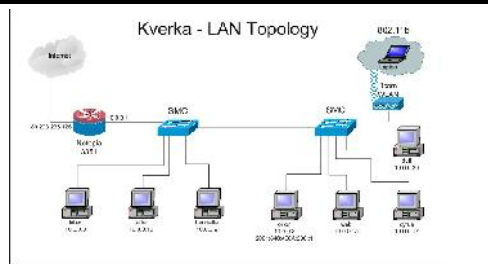
Penetration-Testing Methodologies

- White box model
 - Tester is told everything about the network topology and technology
 - Network diagram
 - Tester is authorized to interview IT personnel and company employees
 - Makes tester's job a little easier

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6

Network Diagram



- From ratemynetworkdiagram.com (Link Ch 19)

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7

This is a Floor Plan

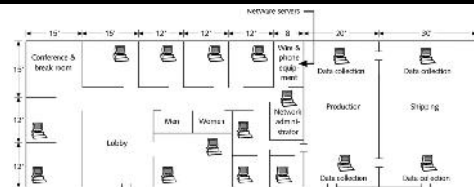


Figure 1-1 A sample network diagram

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Penetration-Testing Methodologies

- Black box model
 - Company staff does not know about the test
 - Tester is not given details about the network
 - Burden is on the tester to find these details
 - Tests if security personnel are able to detect an attack

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Certification Programs for Network Security Personnel

- Certification programs available in almost every area of network security
- Basics:
 - CompTIA Security+ (CNIT 120)
 - Network+ (CNIT 106 or 201)



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Take Certification Tests Here

- CNIT is a Prometric Vue testing center
 - Certification tests are given in S214
 - CompTIA and Microsoft
 - The next tests will be in the second week of April, right after Spring Break
 - Email sbowne@ccsf.edu if you want to take a test

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Certified Ethical Hacker (CEH)



- But see Run Away From The CEH Certification

- Link Ch 1e on my Web page

12

TYPING TEST - PASSED

User: 1234567
Test Name: DNA research
Date : 1/28/2020

TEST RESULTS

Duration: 1:23 min of total time 10 :00 min
Gross Speed: 74 wpm **Gross strokes:** 74
Accuracy: 67% **Error hits:** 165(33 errors*5)
Net Speed: 60 wpm **Netstrokes** 91

TEST TEXT

The Hubble Space Telescope, also called the HST, is a telescopic observatory that orbits 600 kilometers above the Earth. It is the first scientific mission of any kind designed for routine service by astronauts. It is one of the largest and most complex satellites ever built and was deployed April 25, 1990 from the space shuttle Discovery.

When Hubble was designed in the 1970s, NASA stated that its main scientific objectives were to determine:

- * The constitution, physical characteristics, and dynamics of celestial bodies.
- * The nature of processes that occur in the extreme physical conditions existing in and between astronomical objects.
- * The history and evolution of the universe.
- * Whether the laws of nature are universal in the space-time continuum.

That's a pretty tall order for a r