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***Application Type***



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# Standalone



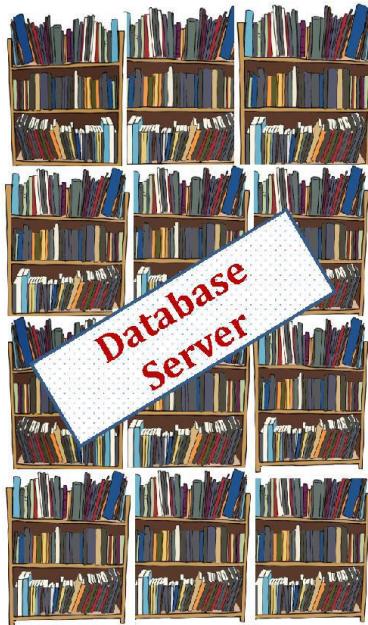
**Standalone Application: Application that can run independently and offline without network connection.**

- No internet required.
- Can execute on personal computer.



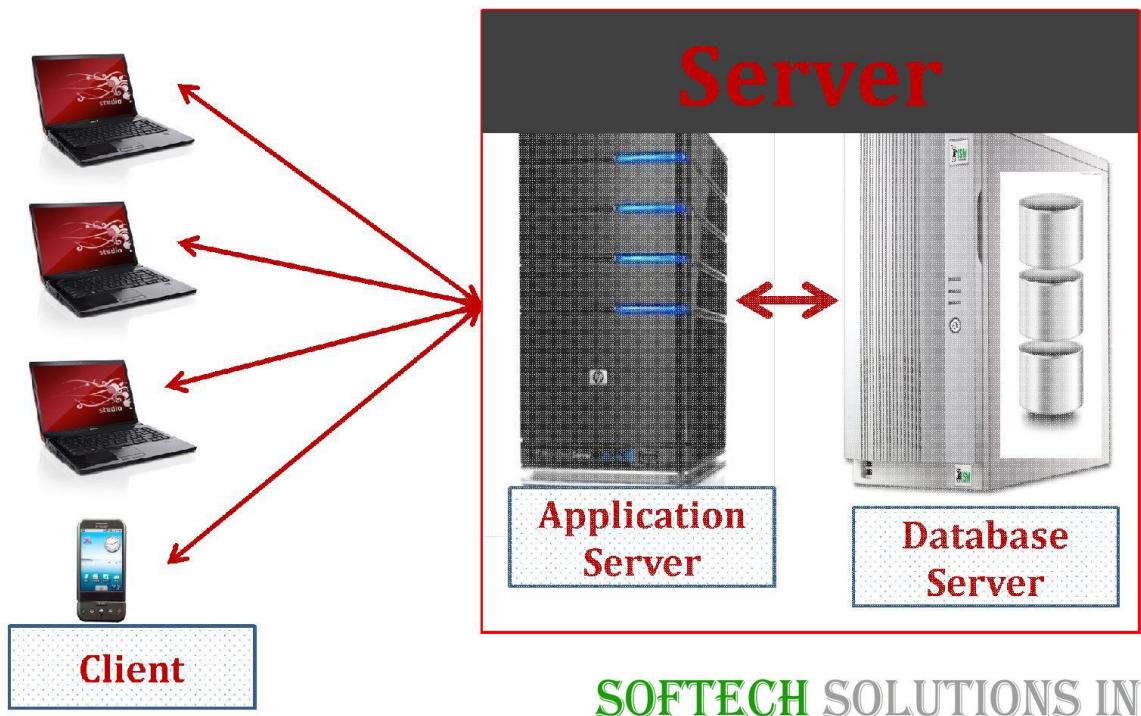
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# Library



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# Client Server



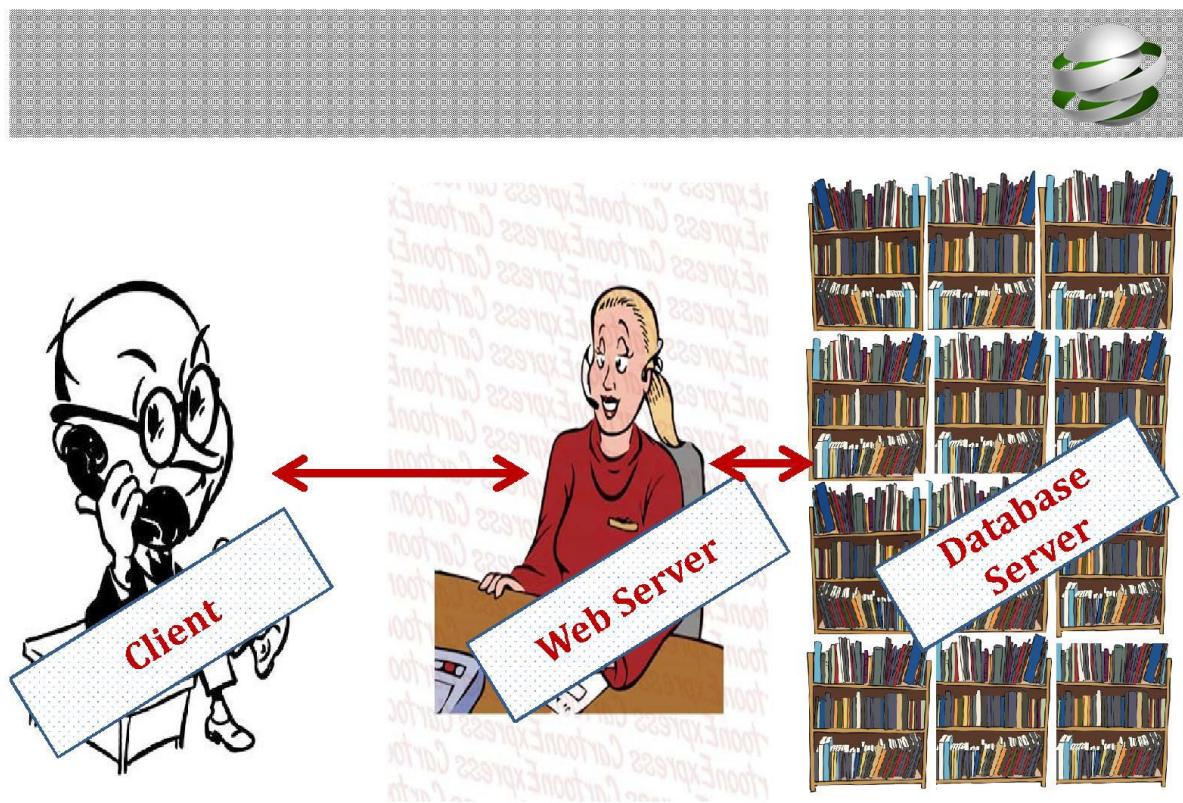
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# **Client Server**



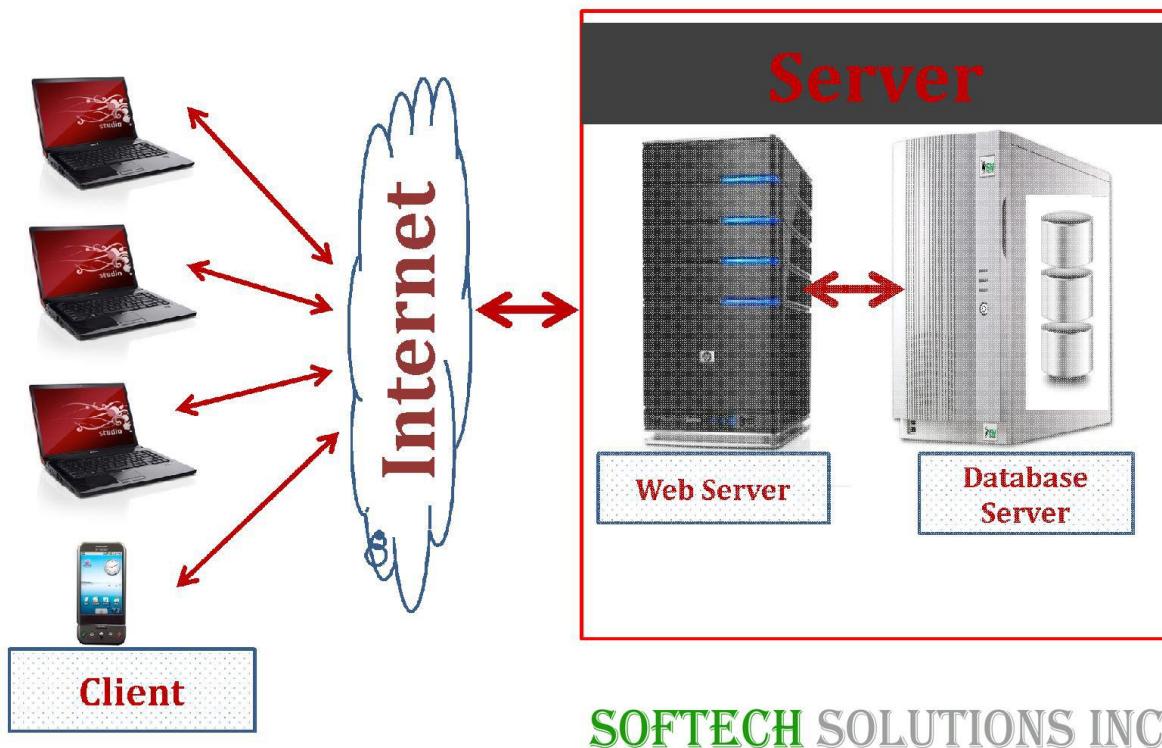
- ❑ Running program to serve the request of clients
- ❑ Must need to connected with network so that Client can reach
- ❑ Generally designed to use for specific group of customer (Office Employee/ work team)

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# Web Based Application



# **Web based application**



- ☛ **Web based application is a software that can be accessed through the web browser.**
- ☛ **Must need to connected with internet so that Client can reach**

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# Three Tier



Facebook Login Screen

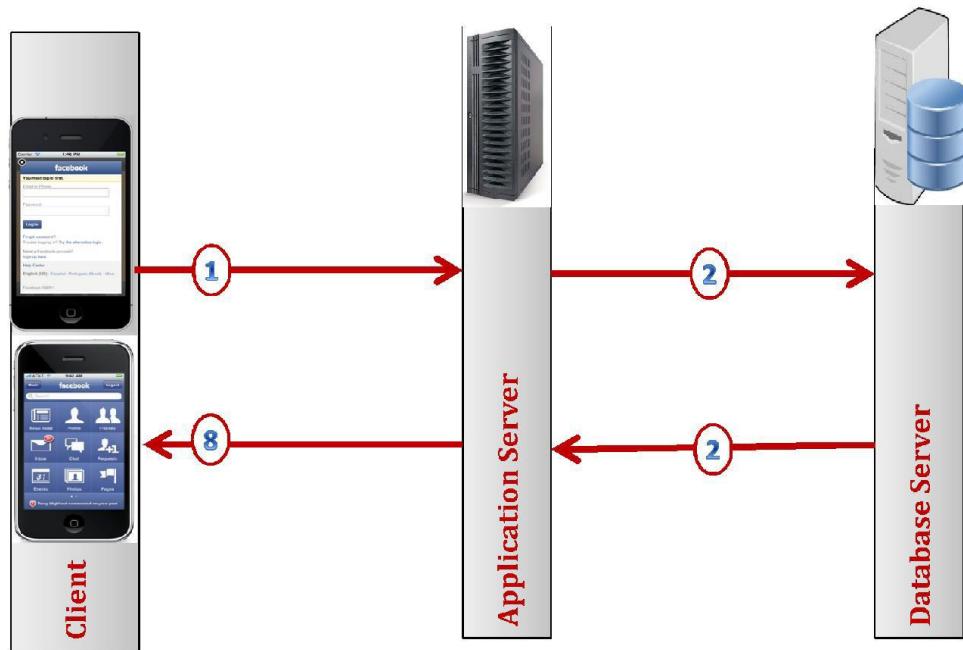
The screenshot shows the Facebook login interface. A red arrow points from the top right towards the 'Email' and 'Password' fields. A large red box labeled 'Click login' is positioned over the 'Login' button. Red numbers 1 through 8 are placed around the interface to indicate steps:

- 3: Points to the 'Mobile' link on the left.
- 4: Points to the 'Click login' box.
- 5: Points to the 'New Password' field.
- 6: Points to the 'Birthdate' dropdown.
- 7: Points to the 'Create a Page...' link at the bottom.
- 8: Points to the 'Forgot your password?' link at the top right.

Below the main form, there's a language selection bar with links for English (US), Español, Português (Brasil), Français (France), Deutsch, Italiano, తెలుగు, 中文 (简体), and 日本語.

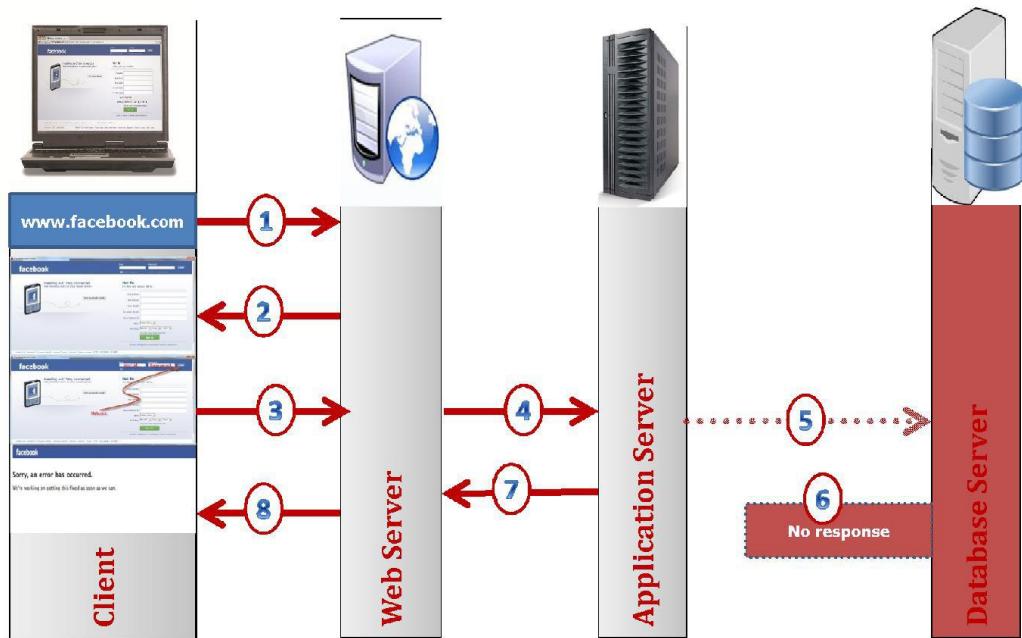
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# Two Tier



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# Web Based Application



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**Protocol:**

**An agreed-upon format for transmitting data between two devices**

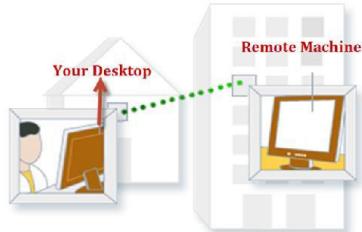
**Example: HTTP, TCP/IP, FTP**

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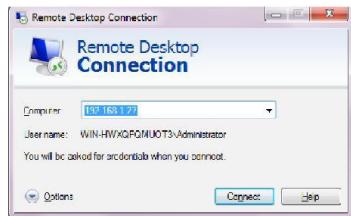
# Remote Desktop



Remote desktop is an application allows the user to connect with remote machines & control that.



Open Run & Type **mstsc**



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*Question & Answer*



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# Summary of Key Concepts



- ❖ Protocol is an agreed upon format for transmitting data between two devices.
- ❖ IP(Internet Protocol) address is a unique number assigned when device connected to the public Internet. IP addresses consist of four numbers separated by periods (also called a 'dotted-quad') and look something like 127.0.0.1.
- ❖ Cmd command is use to go to command prompt. Run>cmd.
- ❖ Click Start > All Programs > Accessories > Command prompt to go to command prompt
- ❖ ***Ipconfig*** command is generally use to view device's IP address. Type cmd in the run and when command prompt open type the command ***ipconfig***.
- ❖ HTTP (Hypertext Transfer Protocol) is the set of rules for transferring files (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.
- ❖ ***Ping*** is a program that sends a series of packets over a network or the Internet to a specific computer in order to generate a response from that computer. The other computer responds with an acknowledgment that it received the packets. Ping was created to verify whether a specific computer on a network or the Internet exists and is connected.
- ❖ In the command prompt type ***ping www.yahoo.com*** other computer reply with acknowledgement..

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# Summary of Key Concepts



- ❖ Standalone application can run independently without any network connections. No Internet is required.
- ❖ Client is a program which makes a service request to another program.
- ❖ Server is a program which fulfills the service request for another program.
- ❖ Server machine is a powerful computer with exceptional faster operating system that helps the enterprise application to run smoothly 24/7.
- ❖ Client/Server describes the relationship between two computer programs in which one program(Client) makes a service request from another program(Server) and the Server which fulfills the request.
- ❖ Web server is a program that uses http protocol to serve files(Web Pages) to Web Users.
  - ❖ Example: Apache is a web server for UNIX -based operating system
  - ❖ Example: IIS(Internet Information Server) is a web server for Microsoft -based operating system.
- ❖ Application servers are software that helps run enterprise application and which contains all business logic.
  - ❖ Example: WebLogic is a app server for UNIX -based operating system
  - ❖ Example: WebSphere is a app server for LINUX - based operating system
  - ❖ Example: Apache is a app server for UNIX/LINUX - based operating system.

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# Summary of Key Concepts



- ❖ Multi-tier application/architecture often referred to client-server architecture in which, the presentation(Top most level user interface), the application processing(Business Logic) and data management(where data are stored) are logically separate.
- ❖ 2-tier web based application generally refers to Application Server and Database server.
- ❖ 3-tier web based application generally refers to webserver, application server and database server.
- ❖ Remote desktop is an application allows the user to connect with remote machines & control that.
- ❖ Web based application is a software that can be accessed through the web browser.

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- ☛ Have you ever worked in 3-tier application. What is 3-tier architecture?
- ☛ What is the difference between Web Server & Application Server? Name one web server & one application server from your prior experience.
- ☛ What is web based application? What information do you require to test any web based application?
- ☛ Explain your last application architecture?
- ☛ How will you test mobile application?
- ☛ How will you connect to a remote Unix machine?
- ☛ How will you connect to a remote windows machine?

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