Class java.net.InetAddress

```
java.lang.Object
   |
   +----java.net.InetAddress
```

---

public final class **InetAddress**
extends Object

A class that represents internet addresses.

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o **equals**(Object)
Compares this object against the specified object.
o **getAddress**()
Returns the raw IP address in network byte order.
o **getAllByName**(String)
Given a hostname, return an array of all the corresponding InetAddresses.
o **getByName**(String)
Returns a network address for the indicated host.
o **getHostName**()
Gets the hostname for this address; also the key in the above hash table.
o **getLocalHost**()
Returns the local host.
o **hashCode**()
Returns a hashcode for this InetAddress.
o **toString**()
Converts the InetAddress to a String.

Methods

o **getHostName**

```
public String getHostName()
```

Gets the hostname for this address; also the key in the above hash table. If the host is equal to null, then this address refers to any of the local machine's available network addresses.

o **getAddress**

```
public byte[] getAddress()
```

Returns the raw IP address in network byte order. The highest order byte position is in addr[0]. An array of bytes is returned so we are prepared for 64−bit IP addresses.

Returns:

raw IP address in network byte order.

o **hashCode**

```
public int hashCode()
```

Returns a hashcode for this InetAddress.

Overrides:

hashCode in class Object

o **equals**

```
public boolean equals(Object obj)
```

Compares this object against the specified object.

Parameters:

obj − the object to compare with

Returns:

true if the objects are the same; false otherwise.

Overrides:

equals in class Object

o **toString**

```
public String toString()
```

Converts the InetAddress to a String.

Overrides:

toString in class Object

o **getByName**

```
public static synchronized InetAddress getByName(String host) throws UnknownHostException
```

Returns a network address for the indicated host. A host name of null refers to default address for the local machine. A local cache is used to speed access to addresses. If a all addresses for host are needed, use the getAllByName() method.

Parameters:

host – the specified host

Throws: UnknownHostException

If the address is unknown.

- **getAllByName**

```
public static synchronized InetAddress[] getAllByName(String host) throws UnknownHostException
```

Given a hostname, return an array of all the corresponding InetAddresses.

- **getLocalHost**

```
public static InetAddress getLocalHost() throws UnknownHostException
```

Returns the local host.