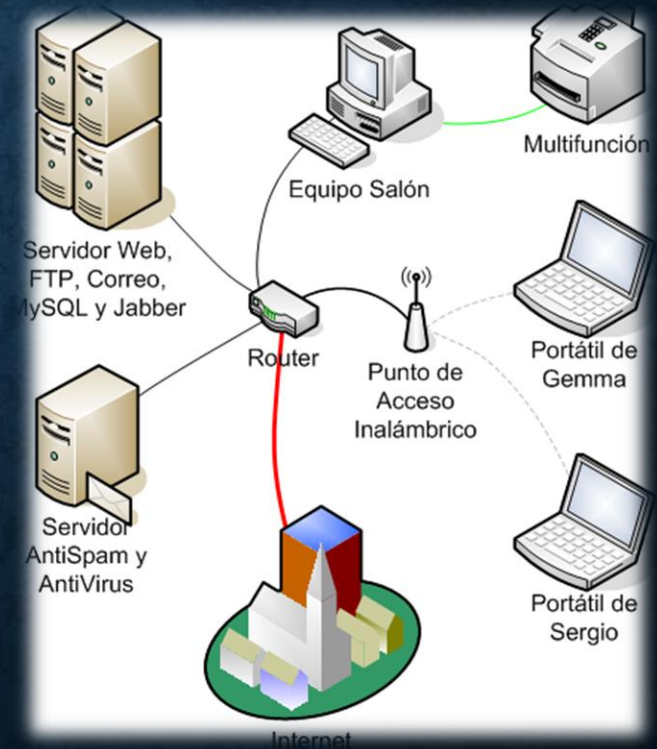


ESCUELA DE FORMACIÓN DE TECNÓLOGOS

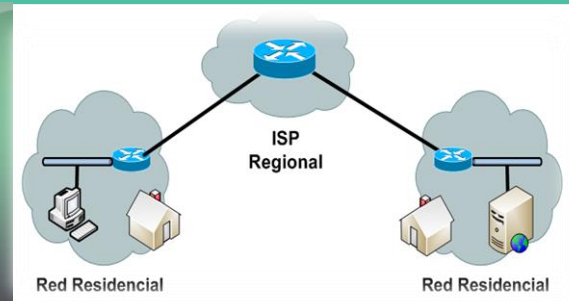


APLICACIONES DISTRIBUIDAS

ING. BYRON LOARTE



INTRODUCCIÓN

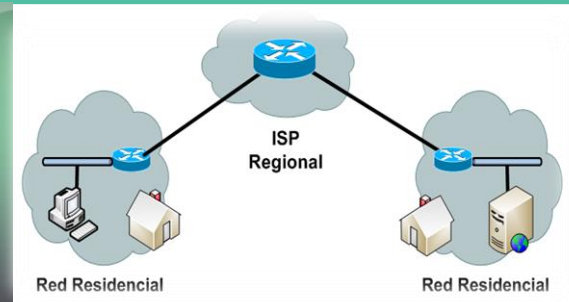


DATOS PERSONALES

- ❖ BYRON LOARTE
- ❖ 0995644186
- ❖ byron.loarteb@epn.edu.ec
- ❖ Oficina 18



CONSTRUCCIÓN DE COMPONENTES

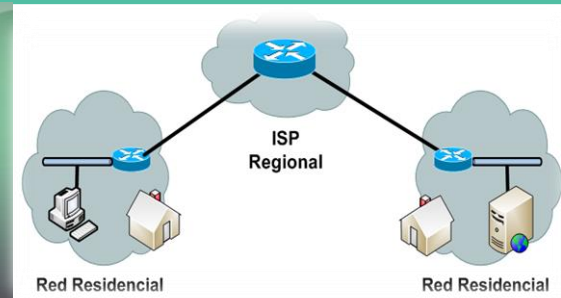


OBJETIVOS DE LA CLASE

- ❖ Determinar
- ❖ Consideraciones del diseño de un componente
- ❖ Continuar el desarrollo del componente
- ❖ Creación de una conexión con la BDD por medio del controlador

What will you
LEARN
today?

INTRODUCCIÓN



INICIAR LOS SERVICIOS

XAMPP Control Panel v3.2.2 [Compiled: Nov 12th 2015]

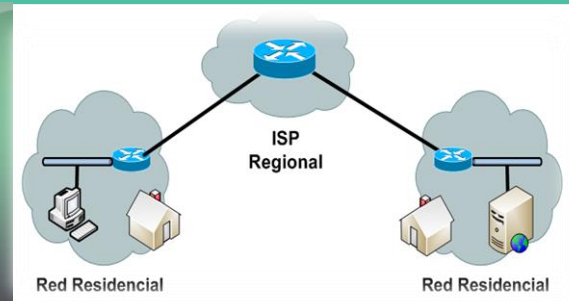
XAMPP Control Panel v3.2.2

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	6108 2332	80, 4433	Stop Admin Config Logs
<input type="checkbox"/>	MySQL	4544		Stop Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

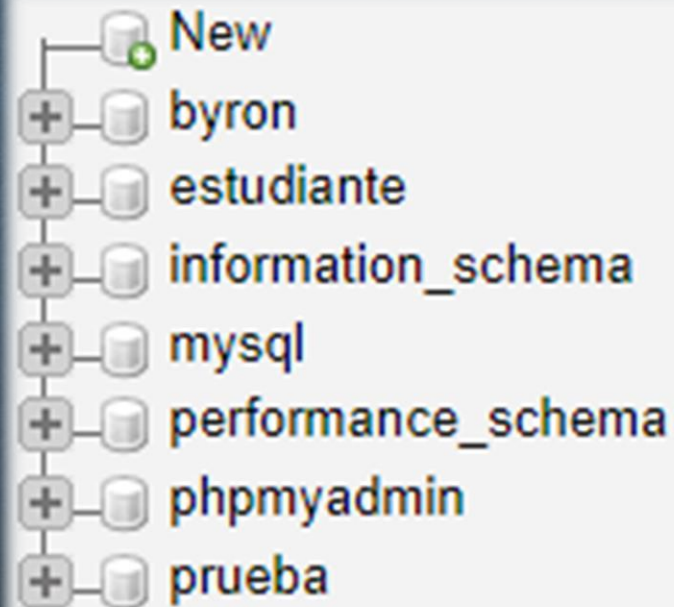
16:25:45 [Apache] Apache WILL NOT start without the configured ports free!
16:25:45 [Apache] You need to uninstall/disable/reconfigure the blocking application
16:25:45 [Apache] or reconfigure Apache and the Control Panel to listen on a different port
16:25:45 [Apache] Attempting to start Apache app...
16:25:46 [Apache] Status change detected: running
16:25:46 [mysql] Attempting to start MySQL app...
16:25:52 [mysql] Status change detected: running

Config Netstat Shell Explorer Services Help Quit

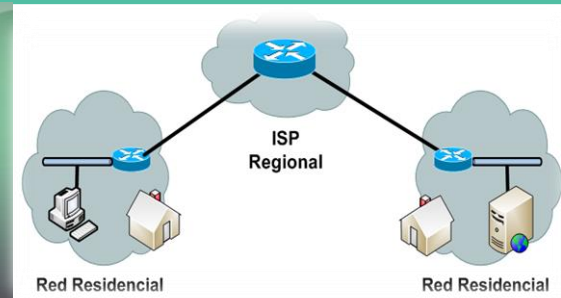
INTRODUCCIÓN



CREAR LA BDD



INTRODUCCIÓN



CREAR LA TABLA ESTUDIANTE

Server: 127.0.0.1 » Database: Estudiante

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Run SQL query series on database Estudiante:

```
1 CREATE TABLE `estudiante` (  
2   `id_e` int(10) NOT NULL,  
3   `nombre_e` varchar(20) DEFAULT NULL,  
4   `apellido_e` varchar(20) DEFAULT NULL,  
5   `codigo_e` varchar(20) NOT NULL,  
6   `email_e` varchar(20) DEFAULT NULL,  
7   `celular_e` varchar(20) DEFAULT NULL,  
8   `genero_e` varchar(10) DEFAULT NULL,  
9   `imagen_e` varchar(100) DEFAULT NULL,  
10  `check_e` varchar(3) DEFAULT NULL  
11 ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

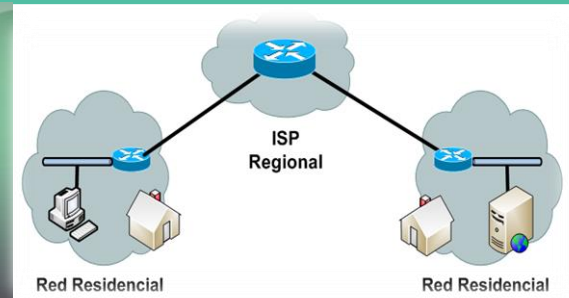
Clear Format Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

[Delimiter] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks

INTRODUCCIÓN



CREAR LA TABLA ESTUDIANTE

phpMyAdmin

Recent Favorites

- New
- byron
- estudiante
 - New
 - estudiante
- information_schema
- mysql
- performance_schema

Server: 127.0.0.1 » Database: estudiante » Table: estudiante

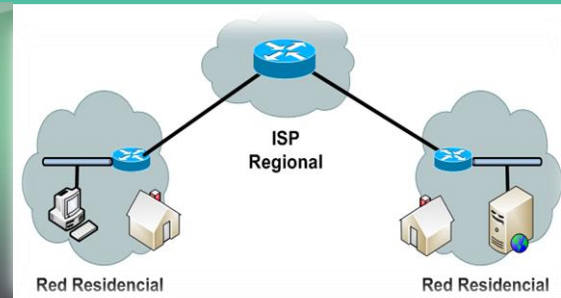
Browse Structure SQL Search Insert Export Import

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0017 seconds.)

```
SELECT * FROM `estudiante`
```

id_e	nobre_e	apellido_e	codigo_e	email_e	celular_e	genero_e	imagen_e	check_e
------	---------	------------	----------	---------	-----------	----------	----------	---------

INTRODUCCIÓN



HACER PRIMARY KEY

Server: 127.0.0.1 » Database: estudiante » Table: estudiante

Browse Structure SQL Search Insert Export

Run SQL query/queries on table estudiante.estudiante: ?

```
1 ALTER TABLE `estudiante`  
2   ADD PRIMARY KEY (`id_e`);
```

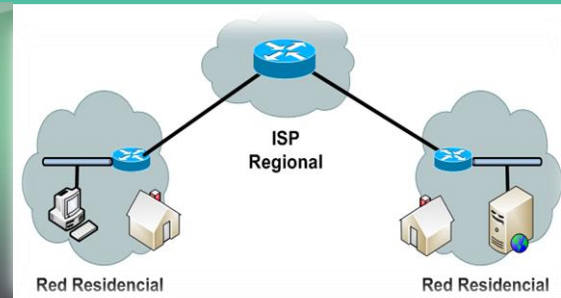
Server: 127.0.0.1 » Database: estudiante » Table: estudiante

Browse Structure SQL Search Insert Export Import

Run SQL query/queries on table estudiante.estudiante: ?

```
1 ALTER TABLE `estudiante`  
2   MODIFY `id_e` int(10) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=1;  
3 COMMIT;
```


INTRODUCCIÓN



INSERTAR UN DATO

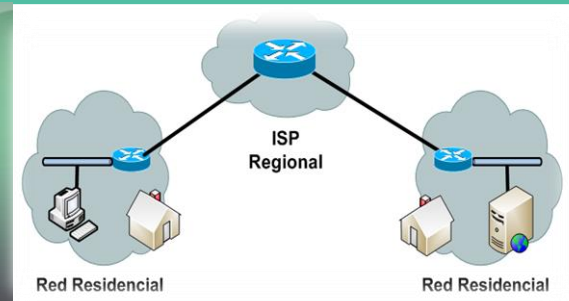
Server: 127.0.0.1 » Database: estudiante » Table: estudiante

Browse Structure SQL Search Insert Export Import Privileges

Column	Type	Function	Null	Value
id_e	int(10)			
nobre_e	varchar(20)		<input type="checkbox"/>	Byron
apellido_e	varchar(20)		<input type="checkbox"/>	Loarte
codigo_e	varchar(20)			12345
email_e	varchar(20)		<input type="checkbox"/>	byron@epn.edu.ec
celular_e	varchar(20)		<input type="checkbox"/>	0995644186
genero_e	varchar(10)		<input type="checkbox"/>	masculino
imagen_e	varchar(100)		<input type="checkbox"/>	byron.png
check_e	varchar(3)		<input type="checkbox"/>	on

Go

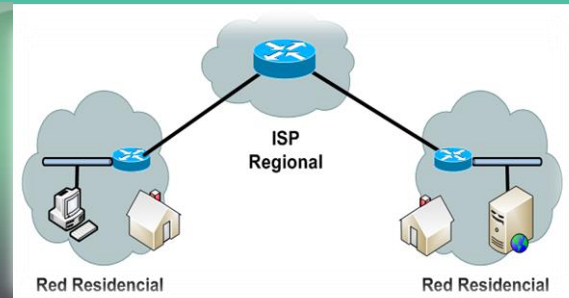
INTRODUCCIÓN



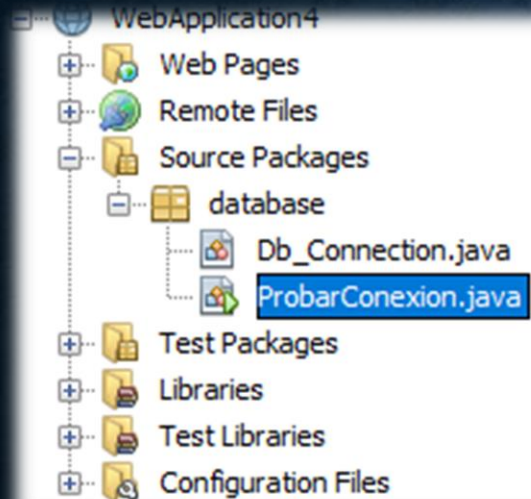
INSERTAR UN DATO

		id_e	nobre_e	apellido_e	codigo_e	email_e	celular_e	genero_e	imagen_e	check_e
<input type="checkbox"/>	Edit	1	Byron	Loarte	12345	byron@epn.edu.ec	0995644186	masculino	byron.png	on

INTRODUCCIÓN



CONEXIÓN A LA BDD



Output ×

WebApplication4 (run) ×

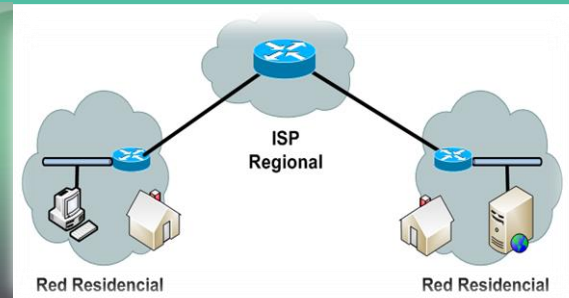
Java DB Database Process ×

GlassFish Server 4.1.1 ×

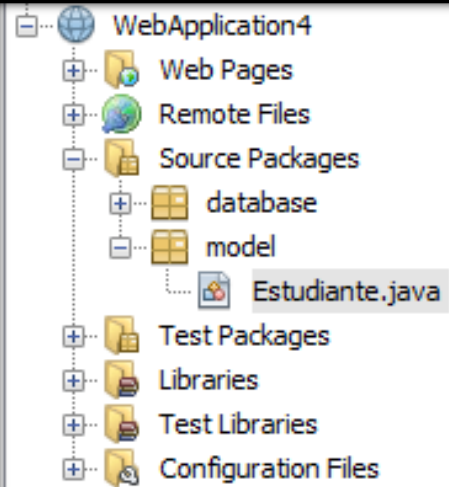
run:

Conexion RealizadaBUILD SUCCESSFUL (total time: 5 seconds)

INTRODUCCIÓN

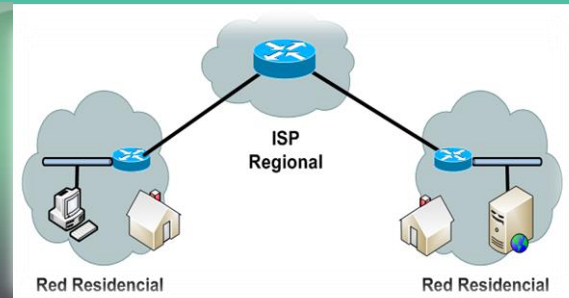


MODELO



```
Estudiante.java x
Source History
1
2 package model;
3
4
5
6
7
8
9 public class Estudiante {
10
11 }
12
13
```


INTRODUCCIÓN



GET / SET

Generate Getters and Setters

Select fields to generate getters and setters for:

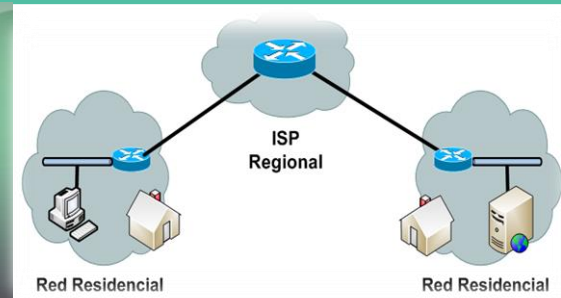
- ☒ Estudiante
 - ☒ s_apellido : String
 - ☒ s_celular : String
 - ☒ s_codigo : String
 - ☒ s_email : String
 - ☒ s_estudia : String
 - ☒ s_foto : String
 - ☒ s_genero : String
 - ☒ s_nombre : String

Select All Select None

☐ Encapsulate Fields

Generate Cancel

INTRODUCCIÓN



CONTROLADOR

New Servlet

Steps

1. Choose File Type
2. **Name and Location**
3. Configure Servlet Deployment

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

WebApplication4

- Web Pages
- Remote Files
- Source Packages
 - controllers
 - Controlador_estudiante.java**
 - database
 - model
- Test Packages
- Libraries
- Test Libraries
- Configuration Files

< Back Next > Finish Cancel Help

New Servlet

Steps

1. Choose File Type
2. Name and Location

Configure Servlet Deployment

Register the Servlet with the application by giving the Servlet an internal name (Servlet Name). Then specify patterns that identify the URLs that invoke the Servlet. Separate multiple patterns with commas.

☒ Add information to deployment descriptor (web.xml):

Class Name:

Servlet Name:

URL Pattern(s):

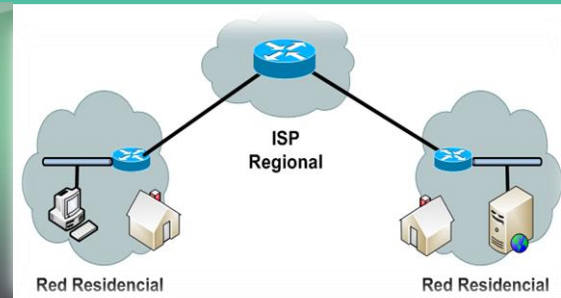
Initialization Parameters:

Name	Value
------	-------

New Edit... Delete

< Back Next > Finish Cancel Help

INTRODUCCIÓN




CONTROLADOR

```
public class Controlador_estudiante extends HttpServlet {  
  
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)  
        throws ServletException, IOException {  
        response.setContentType("text/html;charset=UTF-8");  
        //QUITAR DEL TRY LO QUE ESTABA EN EL PARENTESIS Y PONER AFUERA --1--  
        PrintWriter out = response.getWriter();  
        try  
        {  
  
        }  
        //AUMENTAR ESTA PARTE AL FINALIZAR EL TRY  
        finally  
        {  
            out.close();  
        }  
    }  
}
```

Red Residential

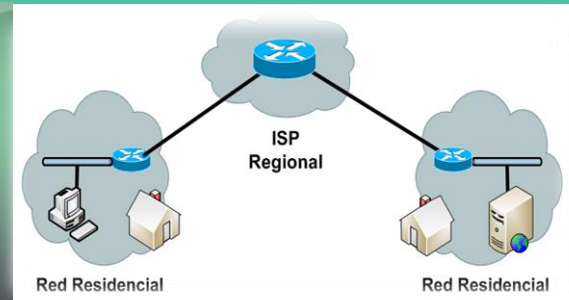
ISP Regional

Red Residential



```
Source History | [Icons]
2 <%@page import="model.Estudiante"%>
3
4 <%@page contentType="text/html" pageEncoding="UTF-8"%>
5 <!DOCTYPE html>
```


INTRODUCCIÓN



Muchas
GRACIAS