GAYATHRI_ASSIGNMENT-1

1) Difference between HTTP 2 and HTTP 1.1

1) Weighted Prioritization- When a request for a web page is made, the server sends many streams of data at a time. This might not allow the most necessary content to be rendered first. To solve this, in HTTP 2, we can assign different weighted values for different data streams according to the priority.

2) Multiplexing- HTTP 2 can send multiple requests for data in parallel over a single TCP connection. Whereas HTTP 1.1 requires several TCP connections for doing the same.

3) Header Requests Compression- HTTP 2 compresses a large number of redundant header frames using HPACK specification. This feature is not available in HTTP 1.1

4) Binary Protocol- HTTP 1.1 processes text commands to complete request-response cycles. On the other hand, HTTP 2 uses binary commands to execute tasks. This reduces the complexities associated with framing and hence simplifies the implementation of commands that were not clear due to text format.

5) Server Push- In HTTP 2, this allows the server to send additional cacheable information to the client that isn't requested but is anticipated in the future. The client can reuse these cached resources across different pages. Hence the performance increases.

2) Difference between GET and POST methods

The GET Method:

1) Used to request data from a specific resource.
2) Requests have length restrictions.
3) Requests can be cached.
4) It is insecure.

The POST Method:

1) Used to send data to a server to create/update a resource.
2) Requests have no restrictions on the length of data.
3) Requests are never cached.
4) Secure

3) Output:

VM412:3 Afghanistan
VM412:3 Åland Islands
VM412:3 Albania
VM412:3 Algeria
VM412:3 American Samoa
VM412:3 Andorra
VM412:3 Angola
VM412:3 Anguilla
VM412:3 Antarctica
VM412:3 Antigua and Barbuda
VM412:3 Argentina
VM412:3 Armenia
VM412:3 Aruba
VM412:3 Australia
VM412:3 Austria
VM412:3 Azerbaijan
VM412:3 Bahamas
VM412:3 Bahrain
VM412:3 Bangladesh
VM412:3 Barbados
VM412:3 Belarus
VM412:3 Belgium
VM412:3 Belize
VM412:3 Benin
VM412:3 Bermuda
VM412:3 Bhutan
VM412:3 Bolivia (Plurinational State of)
VM412:3 Bonaire, Sint Eustatius and Saba
VM412:3 Bosnia and Herzegovina
VM412:3 Botswana
VM412:3 Bouvet Island
VM412:3 Brazil
VM412:3 British Indian Ocean Territory
VM412:3 United States Minor Outlying Islands
VM412:3 Virgin Islands (British)
VM412:3 Virgin Islands (U.S.)
VM412:3 Brunei Darussalam
VM412:3 Bulgaria
VM412:3 Burkina Faso
VM412:3 Burundi
VM412:3 Cambodia
VM412:3 Cameroon
VM412:3 Canada
VM412:3 Cabo Verde
VM412:3 Cayman Islands
VM412:3 Central African Republic
VM412:3 Chad
VM412:3 Chile

VM412:3 China
VM412:3 Christmas Island
VM412:3 Cocos (Keeling) Islands
VM412:3 Colombia
VM412:3 Comoros
VM412:3 Congo
VM412:3 Congo (Democratic Republic of the)
VM412:3 Cook Islands
VM412:3 Costa Rica
VM412:3 Croatia
VM412:3 Cuba
VM412:3 Curaçao
VM412:3 Cyprus
VM412:3 Czech Republic
VM412:3 Denmark
VM412:3 Djibouti
VM412:3 Dominica
VM412:3 Dominican Republic
VM412:3 Ecuador
VM412:3 Egypt
VM412:3 El Salvador
VM412:3 Equatorial Guinea
VM412:3 Eritrea
VM412:3 Estonia
VM412:3 Ethiopia
VM412:3 Falkland Islands (Malvinas)
VM412:3 Faroe Islands
VM412:3 Fiji
VM412:3 Finland
VM412:3 France
VM412:3 French Guiana
VM412:3 French Polynesia
VM412:3 French Southern Territories
VM412:3 Gabon
VM412:3 Gambia
VM412:3 Georgia
VM412:3 Germany
VM412:3 Ghana
VM412:3 Gibraltar
VM412:3 Greece
VM412:3 Greenland
VM412:3 Grenada
VM412:3 Guadeloupe
VM412:3 Guam
VM412:3 Guatemala
VM412:3 Guernsey
VM412:3 Guinea
VM412:3 Guinea-Bissau
VM412:3 Guyana
VM412:3 Haiti
VM412:3 Heard Island and McDonald Islands

VM412:3 Holy See
VM412:3 Honduras
VM412:3 Hong Kong
VM412:3 Hungary
VM412:3 Iceland
VM412:3 India
VM412:3 Indonesia
VM412:3 Côte d'Ivoire
VM412:3 Iran (Islamic Republic of)
VM412:3 Iraq
VM412:3 Ireland
VM412:3 Isle of Man
VM412:3 Israel
VM412:3 Italy
VM412:3 Jamaica
VM412:3 Japan
VM412:3 Jersey
VM412:3 Jordan
VM412:3 Kazakhstan
VM412:3 Kenya
VM412:3 Kiribati
VM412:3 Kuwait
VM412:3 Kyrgyzstan
VM412:3 Lao People's Democratic Republic
VM412:3 Latvia
VM412:3 Lebanon
VM412:3 Lesotho
VM412:3 Liberia
VM412:3 Libya
VM412:3 Liechtenstein
VM412:3 Lithuania
VM412:3 Luxembourg
VM412:3 Macao
VM412:3 Macedonia (the former Yugoslav Republic of)
VM412:3 Madagascar
VM412:3 Malawi
VM412:3 Malaysia
VM412:3 Maldives
VM412:3 Mali
VM412:3 Malta
VM412:3 Marshall Islands
VM412:3 Martinique
VM412:3 Mauritania
VM412:3 Mauritius
VM412:3 Mayotte
VM412:3 Mexico
VM412:3 Micronesia (Federated States of)
VM412:3 Moldova (Republic of)
VM412:3 Monaco
VM412:3 Mongolia
VM412:3 Montenegro

VM412:3 Montserrat
VM412:3 Morocco
VM412:3 Mozambique
VM412:3 Myanmar
VM412:3 Namibia
VM412:3 Nauru
VM412:3 Nepal
VM412:3 Netherlands
VM412:3 New Caledonia
VM412:3 New Zealand
VM412:3 Nicaragua
VM412:3 Niger
VM412:3 Nigeria
VM412:3 Niue
VM412:3 Norfolk Island
VM412:3 Korea (Democratic People's Republic of)
VM412:3 Northern Mariana Islands
VM412:3 Norway
VM412:3 Oman
VM412:3 Pakistan
VM412:3 Palau
VM412:3 Palestine, State of
VM412:3 Panama
VM412:3 Papua New Guinea
VM412:3 Paraguay
VM412:3 Peru
VM412:3 Philippines
VM412:3 Pitcairn
VM412:3 Poland
VM412:3 Portugal
VM412:3 Puerto Rico
VM412:3 Qatar
VM412:3 Republic of Kosovo
VM412:3 Réunion
VM412:3 Romania
VM412:3 Russian Federation
VM412:3 Rwanda
VM412:3 Saint Barthélemy
VM412:3 Saint Helena, Ascension and Tristan da Cunha
VM412:3 Saint Kitts and Nevis
VM412:3 Saint Lucia
VM412:3 Saint Martin (French part)
VM412:3 Saint Pierre and Miquelon
VM412:3 Saint Vincent and the Grenadines
VM412:3 Samoa
VM412:3 San Marino
VM412:3 Sao Tome and Principe
VM412:3 Saudi Arabia
VM412:3 Senegal
VM412:3 Serbia
VM412:3 Seychelles

VM412:3 Sierra Leone
VM412:3 Singapore
VM412:3 Sint Maarten (Dutch part)
VM412:3 Slovakia
VM412:3 Slovenia
VM412:3 Solomon Islands
VM412:3 Somalia
VM412:3 South Africa
VM412:3 South Georgia and the South Sandwich Islands
VM412:3 Korea (Republic of)
VM412:3 South Sudan
VM412:3 Spain
VM412:3 Sri Lanka
VM412:3 Sudan
VM412:3 Suriname
VM412:3 Svalbard and Jan Mayen
VM412:3 Swaziland
VM412:3 Sweden
VM412:3 Switzerland
VM412:3 Syrian Arab Republic
VM412:3 Taiwan
VM412:3 Tajikistan
VM412:3 Tanzania, United Republic of
VM412:3 Thailand
VM412:3 Timor-Leste
VM412:3 Togo
VM412:3 Tokelau
VM412:3 Tonga
VM412:3 Trinidad and Tobago
VM412:3 Tunisia
VM412:3 Turkey
VM412:3 Turkmenistan
VM412:3 Turks and Caicos Islands
VM412:3 Tuvalu
VM412:3 Uganda
VM412:3 Ukraine
VM412:3 United Arab Emirates
VM412:3 United Kingdom of Great Britain and Northern Ireland
VM412:3 United States of America
VM412:3 Uruguay
VM412:3 Uzbekistan
VM412:3 Vanuatu
VM412:3 Venezuela (Bolivarian Republic of)VM412:3 Viet Nam
VM412:3 Wallis and Futuna
VM412:3 Western Sahara
VM412:3 Yemen
VM412:3 Zambia
VM412:3 Zimbabwe