

IBSng Main Database (PostgreSQL)



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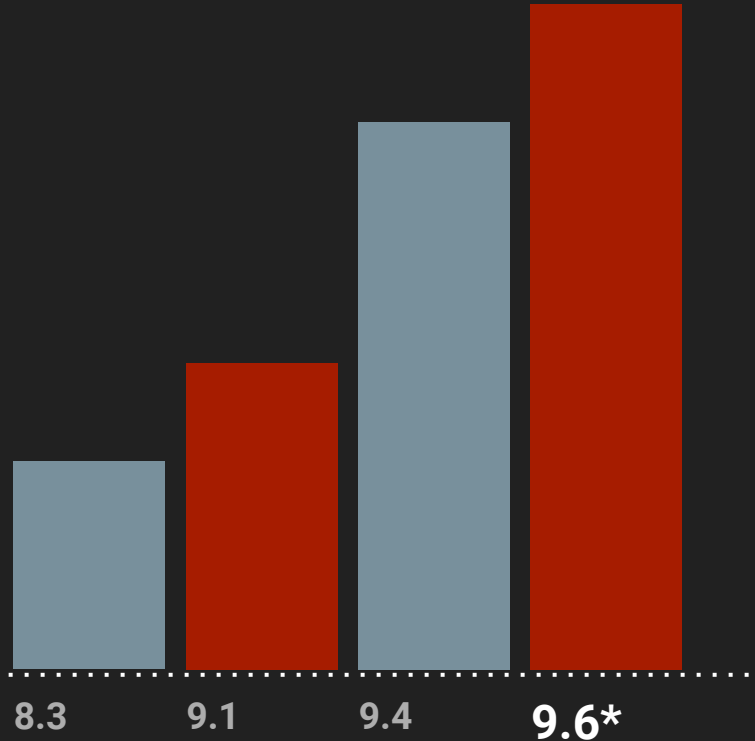
IBSng Database:

- Main tables (PostgreSQL)
- Connection Logs (Mongodb)
- Live data (Redis)

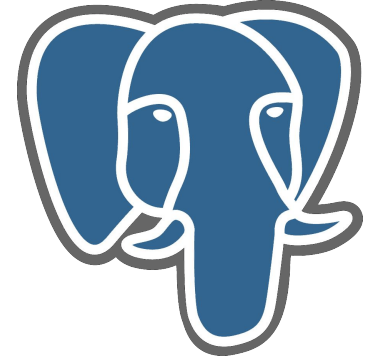


PostgreSQL Versions

- PostgreSQL is free
- PostgreSQL is the most advanced open source relational database, MySQL did not have triggers, PostgreSQL did
- Runs on Windows, Linux and Mac OS
- Easy to use, understand and manage databases
- Great ACL file for managing user accesses
- Tablespace !!



PostgreSQL Clients



Standard (psql)

Windows/Linux Based

pgAdmin3

Windows/Linux Based

Adminer

Web based (PHP)

TeamPostgreSQL

Web based (AJAX)

Important Tables

users
user_attrs
normal_users

All information about
users

groups
group_attrs

All information about
groups

charges
charge_rules
charge_rule_attrs

All information about
charges and charge rules

connection_log
connection_log_details
connection_log_internet_details
connection_log_charge_rule_details

All connection logs

admin

Admins usernames and
passwords

ras
ras_attrs

All information about
rases

public	group_internet_bw_snapshot	table	ibs
public	group_internet_bw_snapshot_previous_data	table	ibs
public	group_internet_bw_snapshot_y2016_m11	table	ibs
public	group_internet_bw_snapshot_y2016_m12	table	ibs
public	internet_bw_snapshot_previous_data	table	ibs
public	internet_bw_snapshot_y2016_m11	table	ibs
public	internet_bw_snapshot_y2016_m12	table	ibs
public	internet_bw_snapshot_y2017_m01	table	ibs
public	internet_onlines_snapshot	table	ibs
public	internet_onlines_snapshot_previous_data	table	ibs
public	internet_onlines_snapshot_y2016_m11	table	ibs
public	internet_onlines_snapshot_y2016_m12	table	ibs
public	internet_onlines_snapshot_y2017_m01	table	ibs
public	invoice	table	postgres
public	invoice_id_seq	sequence	postgres
public	invoice_item	table	postgres
public	invoice_item_id_seq	sequence	postgres
public	invoice_log	table	postgres
public	invoice_log_id_seq	sequence	postgres
public	invoice_profile	table	postgres
public	invoice_profile_id_seq	sequence	postgres
public	invoice_rule	table	postgres
public	invoice_rule_id_seq	sequence	postgres
public	invoice_rule_item	table	postgres
public	invoice_rule_item_id_seq	sequence	postgres
public	invoice_template	table	postgres
public	invoice_template_id_seq	sequence	postgres
public	ip_map	table	ibs
public	ip_map_ip_map_id_seq	sequence	postgres
public	ippool	table	postgres
public	ippool_id_seq	sequence	postgres
public	ippool_ips	table	postgres
public	isp	table	postgres
public	isp_deposit_change	table	postgres
public	invoice_template_id_seq	sequence	postgres
public	ip_map	table	ibs
public	ip_map_ip_map_id_seq	sequence	postgres
public	ippool	table	postgres
public	ippool_id_seq	sequence	postgres
public	ippool_ips	table	postgres
public	isp	table	postgres

Login to Database:

```
# psql -U ibs IBSng
```

```
# \d+
```

```
# select * from users;
```

PostgreSQL on Linux Debian Server

Manual installation

```
# apt-get update  
# apt-get install postgresql-9.4
```

Step by step link

<https://wiki.postgresql.org/wiki/Apt>

Quick Glance to Main Tables (users)

IBSng=# \d users

Table "public.users"

Column	Type	Modifiers
user_id	bigint	not null
isp_id	integer	not null
credit	numeric(14,4)	not null default 0
Deposit	numeric(14,4)	not null default 0
status	smallint	not null default 0
group_id	integer	not null
creation_date	timestamp without time zone	not null default now()
deposit_recharge	numeric(14,4)	not null default 0
nearest_exp_date	timestamp without time zone	

Quick Glance to Main Tables (normal_users)

```
IBSng=# \d normal_users
```

```
Table "public.normal_users"
```

```
Column      | Type | Modifiers
```

```
-----+-----+-----
```

```
user_id      | bigint | not null
```

```
normal_username | text |
```

```
normal_password | text |
```

```
second_normal_username | text |
```

Quick Glance to Main Tables (admin)

IBSng=# \d admin

Table "public.admin"

Column	Type	Modifiers
admin_id	integer	not null
admin_username	text	not null
admin_password	character(34)	not null
admin_comment	text	not null
admin_creator_id	integer	
admin_isp_id	integer	not null
admin_locked	boolean	not null default false
admin_name	text	default ''::text
admin_email	text	default ''::text
admin_has_otp	boolean	not null default false
admin_request_limit	bigint	not null default '-1'::integer

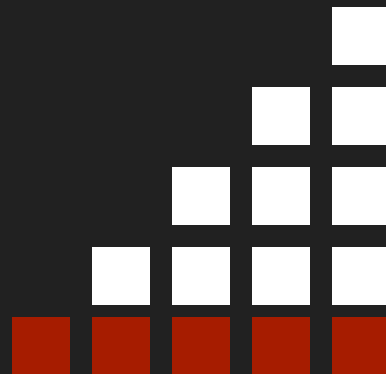
PostgreSQL Backup and Restore

An aerial photograph of a city skyline at dusk or dawn. The sky is dark with some clouds, and the city lights are visible. The text 'PostgreSQL Backup and Restore' is overlaid in white. Below the title, there is a list of two items: '- pg_dump' and '- pg_restore'.

- `pg_dump`
- `pg_restore`

IBSng Backup

```
# pg_dump -Fc -U ibs IBSng > IBSng_dump
```



IBSng Restore

```
# su postgres -c 'dropdb IBSng && createdb IBSng'
```

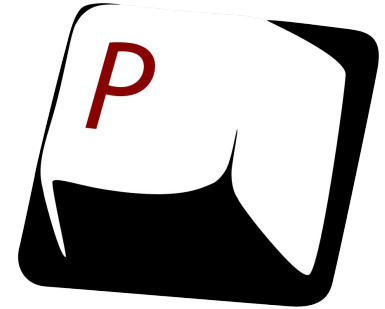
```
# pg_restore -Fc -j [CPU_CORES] -U ibs -d IBSng IBSng_dump
```

Questions?

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