Azure Database App on VM

Here, we add the popular OpenSource database manager *phpMyAdmin* to our VM from #005.

Goal is to see the login screen and working manager under *nginx* on port 443 (https) with *Let's Encrypt* certificate, ingoing and outgoing NSG, attached MySQL-Database (not yet provided here), and initialized phpmyadmin database under:

<your_domain_label>.<location>.cloudapp.azure.com/phpmyadmin/index.php

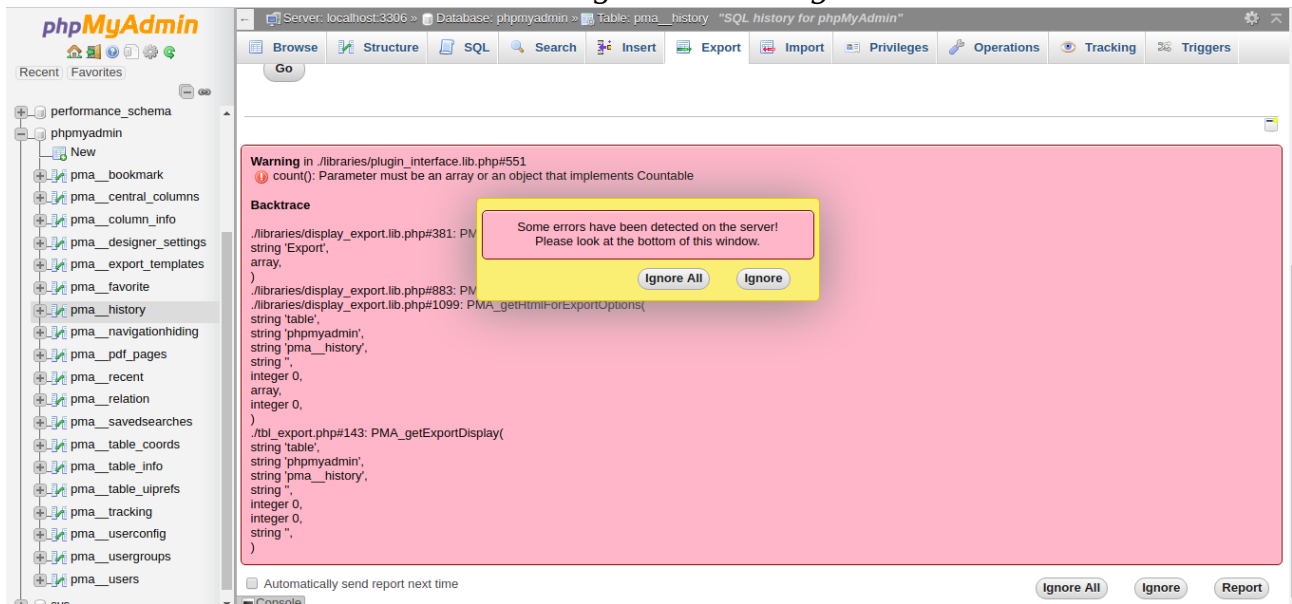Most things are hardwired. Output is your public IP and your FQDN.

Attention!
You must provide the needed SQL-server from elsewhere. It is not part of this setup.
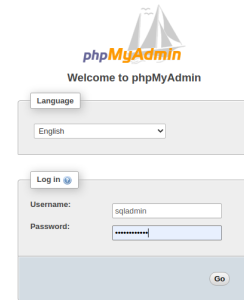
Attention!

There is a bug in current phpMyAdmin. It causes constant error messages because parameter of count() is not an array, or some such. Thus, there is a *sed-command* which should fix things in *install-nginx.sh.*

sudo sed -i "s/\\s\((count(\\$analyzed_sql_results\['select_expr'\]\)\)/| (\1)/g" /usr/share/phpmyadmin/libraries/sql.lib.php*

You might want to comment it out if you have a version > *phpMyAmin-4.6.6*

Attention!

EFF's certbot only allows for **5** CSR per 168h (=7 days). Therefore, there is a line in *install-nginx.sh* which starts with

　　　sudo /bin/sh -v -c "/usr/bin/certbot --test-cert --agree-tos …

This does the complete installation of a cetificate. But with a dummy.
Remove the switch *--test-cert* if you want a valid certificate.
You may then save directory */etc/letsenscript* and restore it after a further run with *–test-cert*. Use *tar*, *gzip*, and *scp*. See
https://github.com/Martin-von-Boehlen/AzTfBeginnersCourse/blob/master/HowtoDoBasics/002_BackupRestore_bash.pdf

Things you should change:

Everything in *variables.tf*	Your custom values
azurerm_resource_group.location	Your location
azurerm_linux_virtual_machine	*Standard*_<cheapest_SKU>
azurerm_public_ip.domain_name_label	<1st_part_of_your_dns_name>
<your_email>@somewhere (install-nginx.sh)	Your e-mail for certs
<your_FQDN> (install-nginx.sh)	Output FQDN from terraform run
<your_DB_FQDN>	n/a
<your_DB_USER>	n/a
<your_DB_PWD>	n/a