Zabbix Template: External Website SSL Utilities

References

This has been adopted from the great work by [Roman](#) on the [Zabbix Share](#) site. I wasn't able to get his precise methodology working on my environment, so I split the `.sh` file out into two separate ones and this is working well for me. [Roman's](#) work was based off of [racooper@tamu.edu's](#) work that was originally posted [here](#).

Installation

Note: I've only tested this on Zabbix 3.4.0. I'm not sure if this will work well/at all for any other versions.

Zabbix Template

Import `template_SSL_Cert_Check_External.xml` into your Zabbix installation. Assign this profile to required Hosts.

Host Requirements

Host Name must be the name of the website to be monitored. *Ex: [www.zabbix.com](#)*

Macros

Macro	Default Value	Description
{$SNI}	{HOSTNAME}	Allows you to pass a different SNI to `openssl` on the Zabbix server for site certificate monitoring
{$SSL_EXPIRY_NOTCLASSIFIED}	90	Threshold of remaining days until expiration to throw a trigger of 'Not Classified' severity
{$SSL_EXPIRY_INFO}	60	Threshold of remaining days until expiration to throw a trigger of 'Information' severity
{$SSL_EXPIRY_AVG}	30	Threshold of remaining days until expiration to throw a trigger of 'Average' severity
{$SSL_EXPIRY_WARN}	15	Threshold of remaining days until expiration to throw a trigger of 'Warning' severity
{$SSL_EXPIRY_HIGH}	7	Threshold of remaining days until expiration to throw a trigger of 'High' severity
{$SSL_HOST}	{HOSTNAME}	Hostname ("Website") to monitor.
{$SSL_PORT}	443	Port on which to test certificate.

Recommended Modifications

I strongly recommend modifiying the {$SSL_EXPIRY_*} macros for the sites that you're using *LetsEncrypt* certificates for as they are much shorter lived and don't renew until they are set to expire in a few weeks *(Depending on how you've configured it)*.

Recommended Actions

- Name: Change in SSL Certificate Issuer
  - Conditions:
    - Maintenance status not in maintenance
    - Trigger name like *Change in SSL Certificate Issuer*
- Name: SSL Certificate Expiring
  - Conditions:
    - Maintenance status not in maintenance
    - Trigger Severity >= Average
    - Trigger name like *SSL certificate on * expires in less than*

External Scripts

Place `zext_ssl_expiry.sh` and `zext_ssl_issuer.sh` into your Zabbix Server's *External Scripts* folder. *(In my instance, this is `/usr/lib/zabbix/externalscripts`.)*

```
sudo chmod u+x ./zext_ssl_expiry.sh
sudo chmod u+x ./zext_ssl_issuer.sh
```