

# Mirantis Technical Bulletin 2020-001

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## Enabling basic auth for Prometheus and Alertmanager

### ISSUE

On the MCP environments with Prometheus-based StackLight, there is no authorization for Prometheus and Alertmanager. This bulletin instructs you on how to manually enable this functionality.

### AFFECTS

Any MCP environment prior to MCP 2019.2.7.

### SECURITY IMPACT

Prometheus and Alertmanager can be accessed without any authorization.

### HOW TO DETERMINE IF YOU ARE AFFECTED

1. Log in to the Salt Master node.
2. Get the Prometheus URL:

```
salt 'prx*' pillar.get _param:cluster_vip_address
salt 'prx*' pillar.get
nginx:server:site:nginx_proxy_prometheus_server:proxy:port
```

3. Paste the virtual IP address with the port to the address bar of your web browser window.
4. Press Enter.

If the NGINX authorization window does not open, your cluster is affected.

### STEPS TO CORRECT

1. Log in to the Salt Master node.
2. Open the cluster level of your deployment model.
3. Define the `prometheus_alermanager_proxy_password_generated` and `prometheus_server_proxy_password_generated` parameters as follows depending on your use case:

- If `secrets_encryption_enabled: 'False'` in the Cookiecutter context:

1. Generate passwords:

```
date +%s | sha256sum | base64 | head -c 32; echo
```

2. Define the parameters in `infra/secrets.yml`:

```
parameters:
  _param:
    ...
    prometheus_alermanager_proxy_password_generated:
<generated_password>
    prometheus_server_proxy_password_generated:
<generated_password>
```

- If `secrets_encryption_enabled: 'True'` in the Cookiecutter context:

1. Generate passwords:

```
echo -ne $(date +%s | sha256sum | base64 | head -c 32; echo) |
GNUPGHOME=/etc/salt/gpgkeys gpg --encrypt --always-trust -a -r
$(GNUPGHOME=/etc/salt/gpgkeys gpg --list-secret-keys
--with-colons | awk -F: -e '/^sec/{print $5}')
```

2. Define the parameters in `infra/secrets.yml`:

```
parameters:
  _param:
    ...
    prometheus_alermanager_proxy_password_generated:
      -----BEGIN PGP MESSAGE-----
      Version: GnuPG v1

      <encrypted_generated_password>
      -----END PGP MESSAGE-----

    prometheus_server_proxy_password_generated: |
      -----BEGIN PGP MESSAGE-----
      Version: GnuPG v1

      <encrypted_generated_password>
      -----END PGP MESSAGE-----
```

4. In `stacklight/proxy.yml`, define `nginx_proxy_prometheus_alertmanager_password` and `nginx_proxy_prometheus_server_password` parameters:

```

...
parameters:
  _param:
    ...
    nginx_proxy_prometheus_alertmanager_password:
${_param:prometheus_alermanager_proxy_password_generated}
    nginx_proxy_prometheus_server_password:
${_param:prometheus_server_proxy_password_generated}

```

5. Download the prometheus-basic-auth.tar.gz archive from [Mirantis artifactory](#):

```

wget
https://artifactory.mirantis.com/artifactory/fixes/prometheus-basic-auth
.tar.gz

```

6. Unpack the archive, back up old files and copy new files:

```

cp
/srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/prometheu
s_alertmanager.yml
/srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/prometheu
s_alertmanager.yml_old

cp
/srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/prometheu
s_server.yml
/srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/prometheu
s_server.yml_old

cp /usr/share/salt-formulas/env/nginx/server/users.sls
/usr/share/salt-formulas/env/nginx/server/users.sls_old

tar -xvzf prometheus-basic-auth.tar.gz

cd prometheus-basic-auth

cp *.yml /srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/
cp users.sls /usr/share/salt-formulas/env/nginx/server/

```

7. Synchronize Salt modules and apply the **nginx** state

```

salt 'prx*' saltutil.sync_all
salt 'prx*' state.sls nginx

```

8. Verify that the changes have been applied:

```

salt -C 'I@horizon:server' pillar.get
_param:nginx_proxy_prometheus_server_user

```

```
salt -C 'I@horizon:server' pillar.get
_param:nginx_proxy_prometheus_server_password

salt 'prx*' pillar.get _param:cluster_vip_address

salt 'prx*' pillar.get
nginx:server:site:nginx_proxy_prometheus_server:proxy:port

curl -u <username>:<password>
http://<cluster_vip_address>:<prometheus_server_port>
```

## STEPS TO REVERT THE PATCH

1. Log in to the Salt Master node.
2. Revert files from the backup:

```
cp
/srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/prometheu
s_alertmanager.yml_old
/srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/prometheu
s_alertmanager.yml

cp
/srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/prometheu
s_server.yml_old
/srv/salt/reclass/classes/system/nginx/server/proxy/monitoring/prometheu
s_server.yml

cp /usr/share/salt-formulas/env/nginx/server/users.sls_old
usr/share/salt-formulas/env/nginx/server/users.sls
```

3. Synchronize Salt modules and apply the **nginx** state:

```
salt 'prx*' saltutil.sync_all
salt 'prx*' state.sls nginx
```

## REFERENCES

[0] <https://artifactory.mirantis.com/artifactory/fixes/prometheus-basic-auth.tar.gz>