gitlab.local.dev

Author: Adrian DC

Description: Install, configure and maintain the gitlab.local.dev infrastructure with mise tasks

Date: 23/11/2026

Version: `2.0.0-43-g11c8590`

▸ 2. GitLab - Clients

Settings required

- **Configure the client machine settings :** Settings

Table of contents

- Settings required
- Configure GitLab system clients
- Configure GitLab user clients

Configure GitLab system clients

- **Configure the system hosts and certificates (as administrator) :**

```
gitlab.local.dev clients:system
```

Task sources: `clients:system`

```
#!/usr/bin/env bash

# Mise
#MISE description="Configure the client system hosts and trusted GitLab certificates (as administrator)"

# Configurations
set -e -o pipefail

# Sources
# shellcheck source=lib/common.sh
source "${MISE_PROJECT_ROOT:?}/lib/common.sh"

# Prepare settings
settings_require
sudo -v

# Install dependencies
if ! type certutil >/dev/null 2>&1; then
  sudo apt-get update
  sudo apt-get install -y libnss3-tools
fi

# Configure system hosts
step "Configure GitLab hosts in '${SYSROOT}/etc/hosts'"
system_block "${SYSROOT}/etc/hosts" 'DNS' "\
${DOMAIN_IP:?} ${DOMAIN_GITLAB:?}
${DOMAIN_IP:?} ${DOMAIN_PAGES:?}
${DOMAIN_IP:?} projects.${DOMAIN_PAGES:?}
${DOMAIN_IP:?} ${DOMAIN_REGISTRY:?}"

# Acquire certificates
certificates="${SYSROOT}/usr/local/share/ca-certificates"
if [ -e "${certificates}" ]; then
  for server in "${DOMAIN_GITLAB:?}:${PORT_GITLAB:?}" "${DOMAIN_PAGES:?}:${PORT_PAGES:?}"
"${DOMAIN_REGISTRY:?}:${PORT_REGISTRY:?}"; do
    domain="${server%:*}"
    step "Acquire certificate from ${server}"
    sudo rm -fv "${SYSROOT}/etc/ssl/certs/${domain:?}.crt"
    certificate_acquire "${server}" "${domain}" | sudo tee "${certificates}/${domain}.crt" >/dev/null
    test -s "${certificates}/${domain}.crt" || fail "Empty certificate from ${server}"
  done
fi

# Refresh CA certificates
if sudo which update-ca-certificates >/dev/null 2>&1; then
  sudo update-ca-certificates --fresh | grep -v '^Replacing\|Mono' || true
fi

# Test GitLab certificate
step "Test https://${DOMAIN_GITLAB:?}:${PORT_GITLAB:?}"
curl -sS -o /dev/null -w ' HTTP status: %{http_code}\n' "https://${DOMAIN_GITLAB:?}:${PORT_GITLAB:?}"

# Restart Docker service
if systemctl cat docker.service >/dev/null 2>&1; then
  confirm 'Restart the Docker service ?'
  sudo systemctl restart docker
fi
```

Configure GitLab user clients

- **Configure the user certificates of Chrome and Firefox (as user) :**

```
gitlab.local.dev clients:user
```

Task sources: `clients:user`

```
#!/usr/bin/env bash

# Mise
#MISE description="Trust the GitLab certificates in the user browsers (Chrome NSS and Firefox, as user)"

# Configurations
set -e -o pipefail

# Sources
# shellcheck source=lib/common.sh
source "${MISE_PROJECT_ROOT:?}/lib/common.sh"

# Prepare settings
settings_require
certificates="${SYSROOT}/usr/local/share/ca-certificates"

# Import certificates in a NSS database
nss_import() {
  local database="${1:?}"
  local trust="${2:?}"
  local certificate_file certificate_name
  for certificate_file in "${certificates}"/*.crt; do
    [ -e "${certificate_file}" ] || continue
    certificate_name="${certificate_file##*/}"
    certificate_name="${certificate_name%.crt}"
    certutil -d "${database}" -D -n "${certificate_name}" 2>/dev/null | grep -v '^Notice:' || true
    certutil -d "${database}" -A -t "${trust}" -n "${certificate_name}" -i "${certificate_file}" | grep -v '^Notice:'
|| true
  done
}

# Refresh user certificates
if [ -e "${HOME}/.pki/nssdb" ]; then
  step 'Refresh user NSS certificates'
  nss_import "sql:${HOME}/.pki/nssdb" 'CP,CP,'
fi

# Refresh Firefox certificates
while IFS= read -r profile_db; do
  step "Refresh Firefox certificates of '$(dirname "${profile_db}")'"
  nss_import "$(dirname "${profile_db}")" 'TCu,Cuw,Tuw'
done < <(find ~/.mozilla/ -name 'cert*.db' 2>/dev/null || true)

# Test browsers
for browser in firefox google-chrome; do
  if type "${browser}" >/dev/null 2>&1 && interactive; then
    "${browser}" "https://${DOMAIN_GITLAB:?}:${PORT_GITLAB:?}" >/dev/null 2>&1 &
    sleep 1
  fi
done
```

gitlab.local.dev