

# Faster Previews (Imaginary)

Tested with debian 12

```
# Imaginary
apt update -y
apt install libvips libvips-dev libopenslide-dev golang pkg-config original-awk grep bc -y

go install github.com/h2non/imaginary@latest
mv go/bin/imaginary /usr/local/bin/imaginary
chmod +x /usr/local/bin/imaginary
rm -rf go/

cat << EOF > /etc/systemd/system/imaginary.service
[Unit]
Description=Imaginary Service
After=network.target

[Service]
Type=simple
Environment="MALLOC_ARENA_MAX=2"
ExecStart=/usr/local/bin/imaginary -p 9001 -concurrency 20
Restart=on-failure
RestartSec=10s

[Install]
WantedBy=multi-user.target
EOF

systemctl daemon-reload
systemctl enable --now imaginary

# use Imaginary for Preview Generation
HALF_MEMORY_GB=$(echo "$(grep MemTotal /proc/meminfo | awk '{print int($2 / 1024 / 1024 / 2)}')")
INSTANCE_ID=$(grep "'instanceid'" /var/www/nextcloud/config/config.php | awk -F "=" '{print $2}' | sed "s/,//")
NC_DATA=$(grep "'datadirectory'" /var/www/nextcloud/config/config.php | awk -F "=" '{print $2}' | sed "s/,//")
```

```
PREVIEW_DIR="$NC_DATA/appdata_$INSTANCE_ID/preview"
OCC="sudo -u www-data php /var/www/nextcloud/occ"
$OCC config:system:set enable_previews --value=true
$OCC config:system:set enabledPreviewProviders 0 --value="OC\\Preview\\Imaginary"
$OCC config:system:set preview_imaginary_url --value="http://127.0.0.1:9001"

systemctl stop nginx php8.2-fpm redis-server postgresql imaginary

# use RAM instead of storage for previews
rm -rf $PREVIEW_DIR
echo "nextcloud-previews $PREVIEW_DIR tmpfs x-mount.mkdir,uid=33,gid=33,size=${HALF_MEMORY_GB}G 0" >> /etc/fstab
systemctl daemon-reload
mount -a

systemctl start nginx php8.2-fpm redis-server postgresql imaginary
$OCC files:scan-app-data

# Cronjobs
cat << EOF > /etc/cron.d/nextcloud-previews
PATH=/usr/bin:/bin:/usr/sbin:/sbin:/usr/local/bin
LD_LIBRARY_PATH=/usr/local/lib
@reboot www-data sleep 10; php -f /var/www/nextcloud/occ files:scan-app-data
EOF
systemctl enable --now cron
```

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