

INSTITUTO INFNET

Projeto de Bloco: Arquitetura de Infraestrutura de Aplicações

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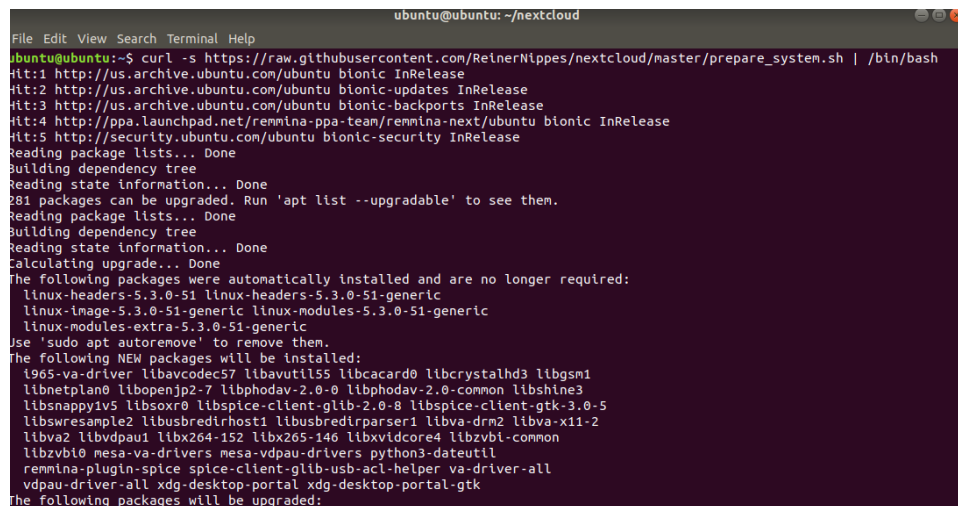
TESTE DE PERFORMANCE 2

Instalação do nextcloud pelo ansible

O nextcloud consiste em um ambiente de nuvem on-premise, onde pode-se hospedar toda uma infraestrutura local de armazenamento, e compartilha-la com os clientes. Por conta disso, existem vários fatores envolvidos em sua instalação, como o servidor web, o banco de dados, a configuração php. E através do ansible, todas essas dependências podem ser facilmente instaladas com o mínimo de configuração possível. Portanto, seguem-se os passos executados para a instalação dessa aplicação:

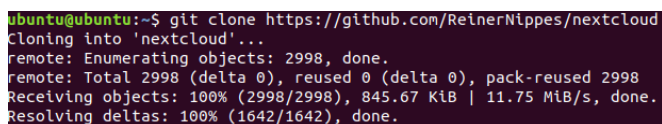
1. Preparar o ambiente Linux para a instalação da aplicação e a instalação do ansible:
curl -s https://raw.githubusercontent.com/ReinerNippes/nextcloud/master/prepare_system.sh | /bin/bash

O comando curl serve para verificar a conectividade da url e o parâmetro -s especifica que deve ser realizada uma transferência de dados entre o link fornecido e a máquina.



```
ubuntu@ubuntu: ~/nextcloud
File Edit View Search Terminal Help
ubuntu@ubuntu:~$ curl -s https://raw.githubusercontent.com/ReinerNippes/nextcloud/master/prepare_system.sh | /bin/bash
Hit:1 http://us.archive.ubuntu.com/ubuntu bionic InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu bionic-backports InRelease
Hit:4 http://ppa.launchpad.net/remmina-ppa-team/remmina-next/ubuntu bionic InRelease
Hit:5 http://security.ubuntu.com/ubuntu bionic-security InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
281 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree
Reading state information... Done
calculating upgrade... Done
The following packages were automatically installed and are no longer required:
  linux-headers-5.3.0-51 linux-headers-5.3.0-51-generic
  linux-image-5.3.0-51-generic linux-modules-5.3.0-51-generic
  linux-modules-extra-5.3.0-51-generic
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  libavcodec57 libavutil55 libcard0 libcrystalhd3 libgsm1
  libnetplan0 libopenjp2-7 libphodav-2.0-0 libphodav-2.0-common libshine3
  libsnappy1v5 libsoxr0 libspice-client-glib-2.0-8 libspice-client-gtk-3.0-5
  libswresample2 libusbredirhost1 libusbredirparser1 libva-drm2 libva-x11-2
  libva2 libvdpau1 libx264-152 libx265-146 libxvidcore4 libzvb1-common
  libzvb10 mesa-va-drivers mesa-vdpau-drivers python3-dateutil
  remmina-plugin-spice spice-client-glib-usb-acl-helper va-driver-all
  vdpau-driver-all xdg-desktop-portal xdg-desktop-portal-gtk
The following packages will be upgraded:
```

2. Clonar o repositório do nextcloud: git clone
<https://github.com/ReinerNippes/nextcloud>

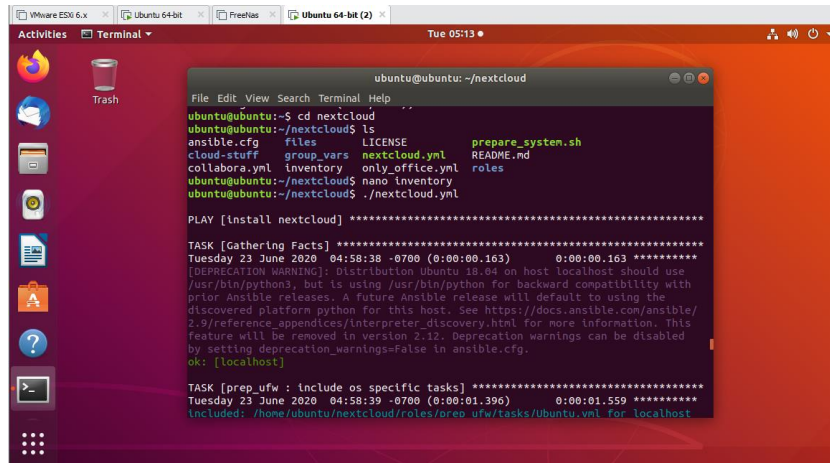


```
ubuntu@ubuntu:~$ git clone https://github.com/ReinerNippes/nextcloud
Cloning into 'nextcloud'...
remote: Enumerating objects: 2998, done.
remote: Total 2998 (delta 0), reused 0 (delta 0), pack-reused 2998
Receiving objects: 100% (2998/2998), 845.67 KiB | 11.75 MiB/s, done.
Resolving deltas: 100% (1642/1642), done.
```

Esse comando irá realizar uma copia de todo o repositório do nextcloud para dentro da máquina

3. Para prosseguir iremos editar o arquivo inventory na pasta nextcloud, com o comando nano, para definir as credenciais de acesso a página web.

4. Com o arquivo devidamente editado, prosseguiremos com a instalação através do comando “./nextcloud.yml”. Esse comando irá executar nosso playbook e instalar/configurar todas as roles necessárias para a instalação do nextcloud
- Roles usadas na instalação

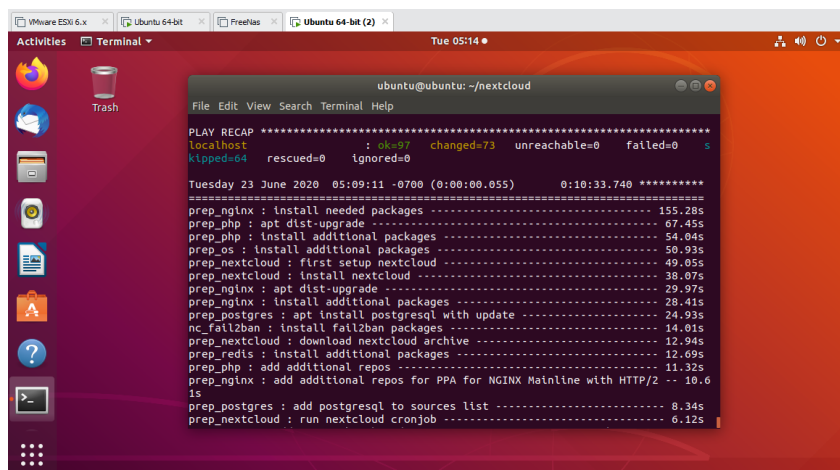


```
ubuntu@ubuntu: ~/nextcloud
File Edit View Search Terminal Help
ubuntu@ubuntu:~/nextcloud$ cd nextcloud
ubuntu@ubuntu:~/nextcloud$ ls
ansible.cfg  files          LICENSE        prepare_system.sh
cloud-stuff  group_vars     nextcloud.yml  README.md
collabora.yml inventory      only_office.yml roles
ubuntu@ubuntu:~/nextcloud$ nano inventory
ubuntu@ubuntu:~/nextcloud$ ./nextcloud.yml

PLAY [install nextcloud] *****

TASK [Gathering Facts] *****
Tuesday 23 June 2020  04:58:38 -0700 (0:00:00.163)    0:00:00.163 *****
[DEPRECATION WARNING]: Distribution Ubuntu 18.04 on host localhost should use
/usr/bin/python3, but is using /usr/bin/python for backward compatibility with
prior Ansible releases. A future Ansible release will default to using the
discovered platform python for this host. See https://docs.ansible.com/ansible/
2.9/reference_appendices/interpreter_discovery.html for more information. This
feature will be removed in version 2.12. Deprecation warnings can be disabled
by setting deprecation_warnings=False in ansible.cfg.
ok: [localhost]

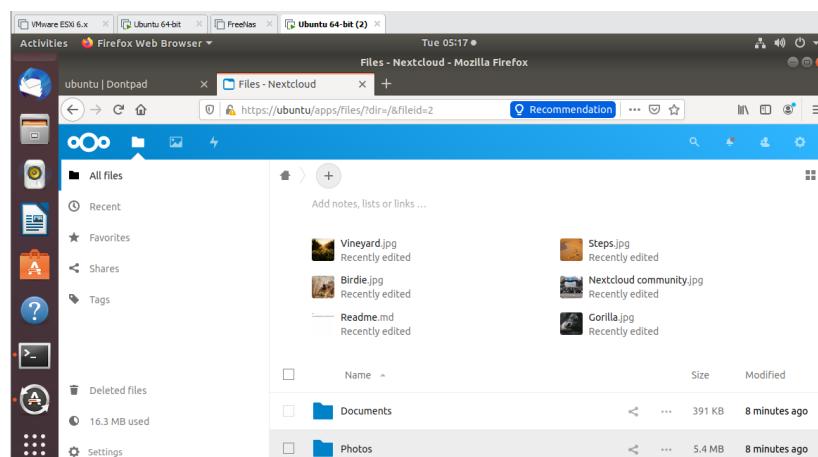
TASK [prep_fw : include os specific tasks] *****
Tuesday 23 June 2020  04:58:39 -0700 (0:00:01.396)    0:00:01.559 *****
included: /home/ubuntu/nextcloud/roles/prep_fw/tasks/Ubuntu.yml for localhost
```



```
PLAY RECAP *****
localhost  : 4 ok=97  changed=73  unreachable=0  failed=0  s
klipped=64  rescued=0  ignored=0

Tuesday 23 June 2020  05:09:11 -0700 (0:00:00.055)    0:10:33.740 *****
prep_nginx : install needed packages ----- 155.28s
prep_php : apt dist-upgrade ----- 67.45s
prep_php : install additional packages ----- 54.04s
prep_os : install additional packages ----- 50.93s
prep_nextcloud : first setup nextcloud ----- 49.05s
prep_nextcloud : install nextcloud ----- 38.07s
prep_nginx : apt dist-upgrade ----- 29.07s
prep_nginx : install additional packages ----- 28.41s
prep_postgres : apt install postgresql with update ----- 24.93s
nc_fail2ban : install fail2ban packages ----- 14.01s
prep_nextcloud : download nextcloud archive ----- 12.94s
prep_redis : install additional packages ----- 12.69s
prep_php : add additional repos ----- 11.32s
prep_nginx : add additional repos for PPA for NGINX Mainline with HTTP/2 -- 10.6
1s
prep_postgres : add postgresql to sources list ----- 8.34s
prep_nextcloud : run nextcloud cronjob ----- 6.12s
```

5. Após a execução do playbook, basta acessar a url determinada no script para acessar a aplicação:



Roles utilizadas no playbook