**Installation et configuration du serveur DNS :**

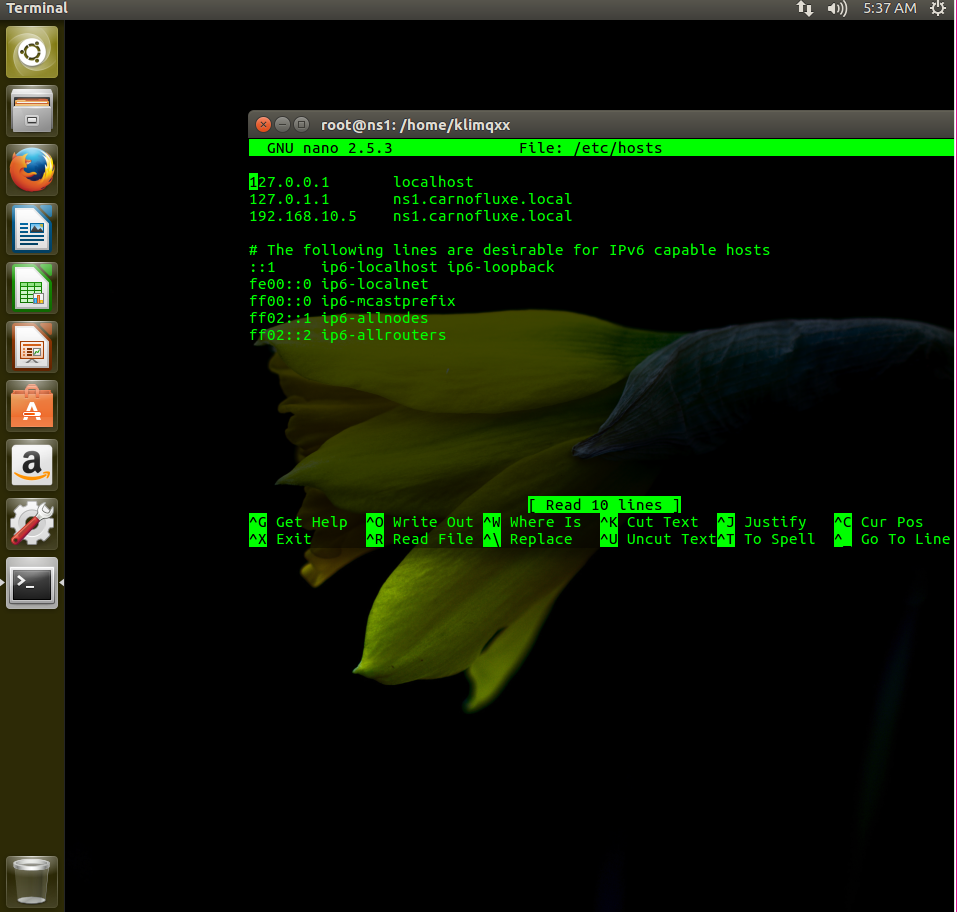
On va utiliser bind9 qui gère la zone DNS et la zone inverse.

Préparation du serveur :

Avant d’installer le service bind9 sur le serveur, il est nécessaire de configurer l’adresse IP en statique dans le fichier etc/network/interfaces ou en tapant la commande ifconfig 192.168.10.5 ens33 netmask 255.255.255.0

Après il faut modifier /etc/hostname et /etc/hosts

* Dans le fichier /etc/hosts, modifier la ligne commençant par 127.0.1.1



Ce fichier permet une résolution locale des noms à partir des adresses IP sans utiliser le service DNS

Donc on ajoute le nouveau nom FQDN du serveur + l’adresse IPv4 du serveur DNS et son FQDN

* Enfin la configuration du fichier /etc/resolv.conf pour que le serveur soit intégré à la future zone DNS, il va donc falloir indiquer dans ce fichier le domaine et la zone de recherche DNS.
* Les entrées la plus classique du fichier resolv.conf :
* Nameserver L'adresse IP du serveur de noms auquel le résolveur devrait envoyer ses requêtes. Les serveurs sont sollicités dans l'ordre listé avec un maximum de trois.
* Search Liste de recherche pour la résolution de nom de machine. Ceci est normalement déterminé par le domaine de l'hôte local.
* Domain Le nom du domaine local.

Une image contenant moniteur, intérieur, écran, équipement électronique

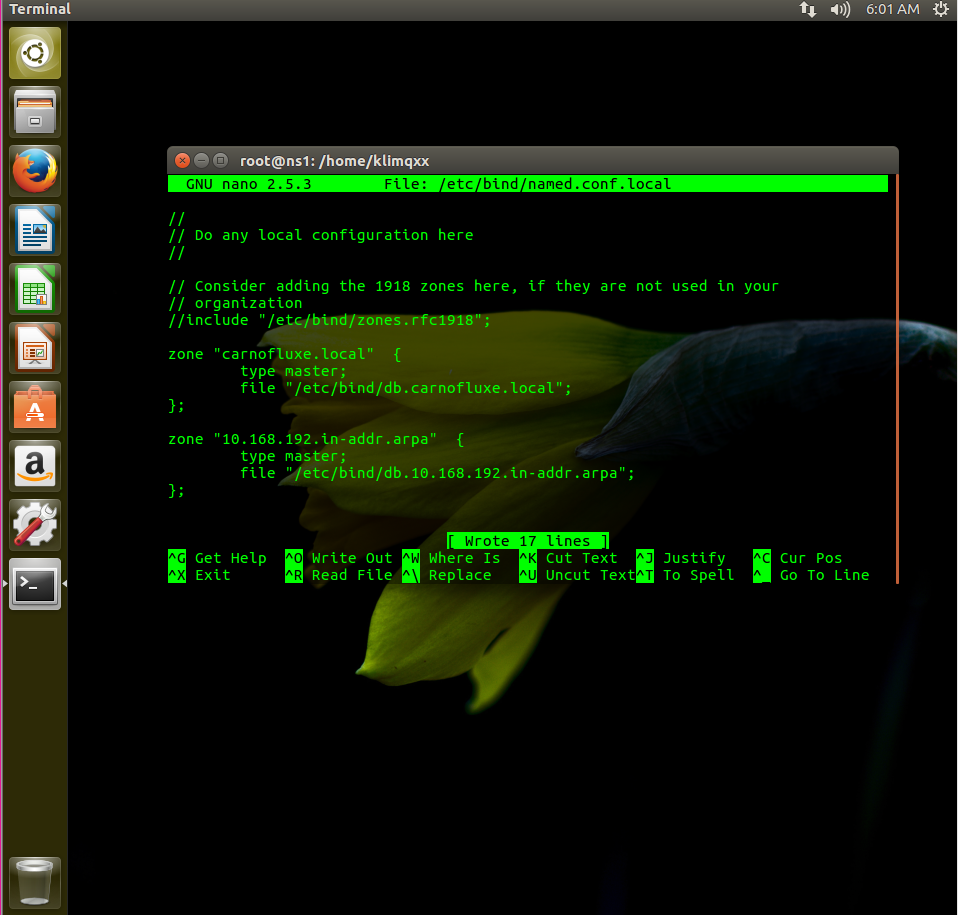
Description générée avec un niveau de confiance élevé

Maintenant, tapez apt-get install bind9 pour installer le service bind9

Une fois l’installation est terminée, il va falloir se rendre dans le répertoire /etc/bind

Deux zones DNS sont ici à déclarer, la zone carnofluxe.local + la zone inverse pour que des adresses IP puissent être traduites en noms de domaine.

Les zones se déclarent dans le fichier /etc/bind/named.conf.local pour chaque zone il faut préciser que le serveur est maître ou esclave.



Les zones vont maintenant devoir être créer. Pour cela il faut créer et éditer les fichiers précédemment cités dans /etc/bind/named.conf.local

* Etc/bind/db.carnofluxe.local



* Etc/bind/db.10.168.192.in-addr.arpa (Fichier de la zone inverse)



Les fichiers des zones DNS directes et inverses sont maintenant créés.

Maintenant on va tester la bonne configuration des fichiers de zone en utilisant la commande named-checkconf -z

Une image contenant intérieur, moniteur

Description générée avec un niveau de confiance élevé

Pour finir la mise en place du service DNS, il faut redémarrer le service en utilisant cette commande :

Service bind9 restart

* Maintenant, le service DNS fonctionne et permet aux machines qui auront ce serveur comme serveur DNS d’obtenir la résolution des zones définies dans la configuration.
* On peut tester le bon fonctionnement du service grâce à la commande dig :

Une image contenant moniteur, intérieur, ordinateur

Description générée avec un niveau de confiance élevé

Pour tester la résolution à partir de la zone DNS inverse, il suffit de préciser -x à la commande dig et ajouter l’adresse IP comme paramètre :

* Le serveur DNS est maintenant fonctionnel.

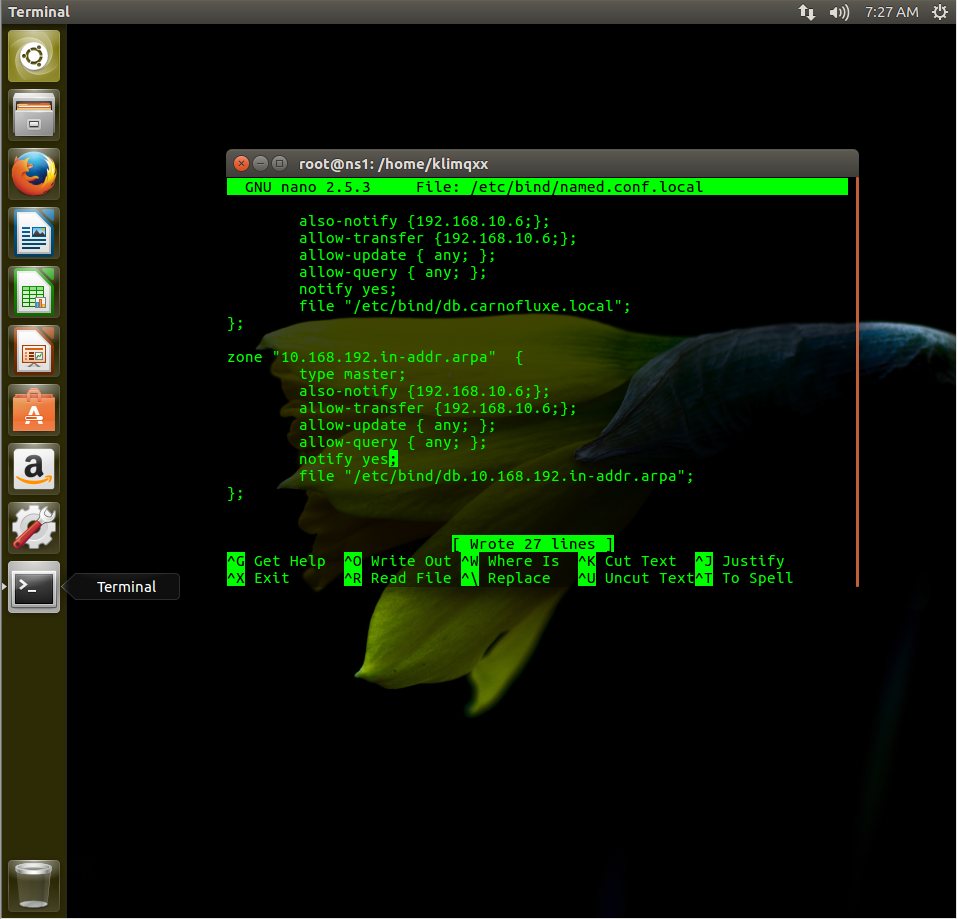
**Paramétrage du serveur DNS Maître :**

Ajouter le second serveur DNS dans le fichier /etc/resolv.conf

Une image contenant moniteur, intérieur, mur, écran

Description générée avec un niveau de confiance très élevé

* Des modifications de zones sont également nécessaires, ils sont réalisées dans le fichier /etc/bind/named.conf.local



La directive allow-transfer permet de préciser l’adresse IP du serveur DNS.

Ensuite, il va falloir modifier les options de configuration de bind9 dans le fichier /etc/bind/named.conf.options :

Voici l’état final du fichier pour permettre un transfert des fichiers de zone vers le serveur DNS Esclave ! :

Une image contenant moniteur, intérieur, écran, ordinateur

Description générée avec un niveau de confiance très élevé

La configuration du serveur Maître est maintenant terminée, utilisez la commande named-checkconf -z pour vérifier qu’aucune erreur n’est présente dans vos fichiers de configuration

Une image contenant moniteur, intérieur, mur, écran

Description générée avec un niveau de confiance élevé

Et la commande service bind9 restart pour appliquer les modifications

**Paramétrage du serveur DNS Esclave :**

Pour ce serveur DNS Esclave, il faut configurer d’abord les fichiers suivants :

Le fichier /etc/network/interfaces : l’adresse IP du serveur DNS Esclave sera : 192.168.10.6

Une image contenant capture d’écran, intérieur, moniteur

Description générée avec un niveau de confiance élevé

Le fichier /etc/hostname pour changer le FQDN du serveur :

Après, Editez le fichier /etc/hostname changer le FQDN du serveur (ns2.carnofluxe.local)

Une image contenant objet, intérieur

Description générée avec un niveau de confiance élevé

Le fichier /etc/hosts pour la résolution locale :

Une image contenant équipement électronique

Description générée avec un niveau de confiance élevé

Le fichier /etc/resolv.conf : afin d’indiquer les serveurs DNS qui devront être utilisés.

Une image contenant capture d’écran, moniteur

Description générée avec un niveau de confiance élevé

Ensuite installer bind9, exécuter la commande suivante : apt-get install bind9

Les fichiers de configuration de bind9 vont maintenant devoir être modifiés.

Modifiez le fichier /etc/bind/named.conf.options avec les mêmes directives que pour le serveur maitre, et il faudra bien indiquer l’adresse IPv4 du serveur Esclave pour la ligne « listen-on »

![Une image contenant moniteur, équipement électronique, écran

Description générée avec un niveau de confiance très élevé](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAAAAAAAD/4RCyRXhpZgAATU0AKgAAAAgAAodpAAQAAAABAAAIMuocAAcAAAgMAAAAJgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCAkAQAAgAAABQAABCUkpEAAgAAAAM4NgAAkpIAAgAAAAM4NgAA6hwABwAACAwAAAh0AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAApJ0cmFrAAAAXHRraGQAAAAB1qN85dajfOUAAAABAAAAAAAAeRcAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAABAAAAAA7wAAAOWAAAAAAIubWRpYQAAACBtZGhkAAAAANajfOXWo3zlAAB1MAAAeRdVxAAAAAAALWhkbHIAAAAAAAAAAHZpZGUAAAAAAAAAAAAAAABWaWRlb0hhbmRsZXIAAAAB2W1pbmYAAAAUdm1oZAAAAAEAAAAAAAAAAAAAACRkaW5mAAAAHGRyZWYAAAAAAAAAAQAAAAx1cmwgAAAAAQAAAZlzdGJsAAAApXN0c2QAAAAAAAAAAQAAAJVhdmMxAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAA7wDlgBIAAAASAAAAAAAAAABCkFWQyBDb2RpbmcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGP//AAAAP2F2Y0MBQkAf/+EAJydCQB+VsDwHXubAUCAAAAMAIAAAB5wIAAFuNgAAEAWTe98HaHDLgAEABSjOPIAAAAAAGHN0dHMAAAAAAAAAAQAAAB8AAAPoAAAAHHN0c2MAAAAAAAAAAQAAAAEAAAAfAAAAAQAAAJBzdHN6AAAAAAAAAAAAAAAfAAGiSAAAAVcAAAF+AAADQwAAAo8AAAHOAAACLQAAAi0AAAKWAAACFgAABhAAAAbkAAAD0wAAAuEAAAMjAAAJzwAAA/0AAAaaAAAC2QAAA4UAAANfAAADCgAABpQAAFXNAADDSQAAw0kAAMNJAADDSQAAw0kAAMNJAADDSQAAABRzdGNvAAAAAAAAAAEAAABQAAAAFHN0c3MAAAAAAAAAAQAAAAEAAABEdWR0YQAAADRtZXRhAAAAAAAAACBoZGxyAAAAAAAAAABtZGlyAAAAAAAAAAAAAAAAAAAACGlsc3QAAAAIWHRyYVBLBwjdX4MBtaQHAAAAAAC1pAcAAAAAAFBLAwQtAAgACACui0lMAAAAAAAAAAAAAAAAEwAAAFtDb250ZW50X1R5cGVzXS54bWxtjssOgjAQRX+lmT0MGmOMobDw8QX4AU0ZSpU+QivBv7fAzricM/fMnbKezcAmGoN2lsMuL4CRla7VVnF4NPfsBHVVNh9PgaWoDRz6GP0ZMciejAi582TTpnOjETGNo0Iv5Esown1RHFE6G8nGLC43oCqv1In3ENltTnirfXoF7LLllioO2iz+yvGvYvzhR5l0Sw5XnhRcX66+UEsHCIh6FsSaAAAAAAAAAOAAAAAAAAAAUEsBAi0ALQAIAAAArotJTDyRonb//////////xkAHAAAAAAAAAAAAAAA/////2Zvcm1hdHMvbGl2aW5nL2xpdmluZy5qcGcBABgA4L0BAAAAAADgvQEAAAAAAN53AgAAAAAAUEsBAi0ALQAIAAAArotJTN1fgwH//////////xkAHAAAAAAAAAAAAAAA/////2Zvcm1hdHMvbGl2aW5nL2xpdmluZy5tcDQBABgAtaQHAAAAAAC1pAcAAAAAAA02BAAAAAAAUEsBAi0ALQAIAAgArotJTIh6FsT//////////xMAHAAAAAAAAAAAAAAA/////1tDb250ZW50X1R5cGVzXS54bWwBABgA4AAAAAAAAACaAAAAAAAAABHbCwAAAAAAUEsGBiwAAAAAAAAALQAtAAAAAAAAAAAAAwAAAAAAAAADAAAAAAAAACMBAAAAAAAA9NsLAAAAAABQSwYHAAAAABfdCwAAAAAAAQAAAFBLBQb/////////////////////AAA=)

La prochaine étape est la déclaration des zones dans le fichier /etc/bind.named.conf.local pour chaque zone il faut préciser que le serveur DNS est un esclave de la zone, les adresses IPv4 ou des serveurs maîtres et le fichier dans lequel sera stockée la zone qui sera transmise à l’esclave par le maître

Une image contenant moniteur, intérieur, assis, écran

Description générée avec un niveau de confiance élevé

Pour terminer la configuration du serveur DNS Esclave il suffira d’entrer la commande suivante :

Service bind9 restart

Vous pourrez alors constater que les fichiers de zone DNS sont apparus dans le répertoire /var/lib/bind. Ces fichiers contiennent les enregistrements (A, NS, PTR…) des zones.



Pour vérifier le fonctionnement du serveur DNS Esclave utiliser l’outil dig en dirigeant la requête DNS vers le serveur en 192.168.10.6 :

Une image contenant capture d’écran, assis, noir

Description générée avec un niveau de confiance élevé

THANK YOU