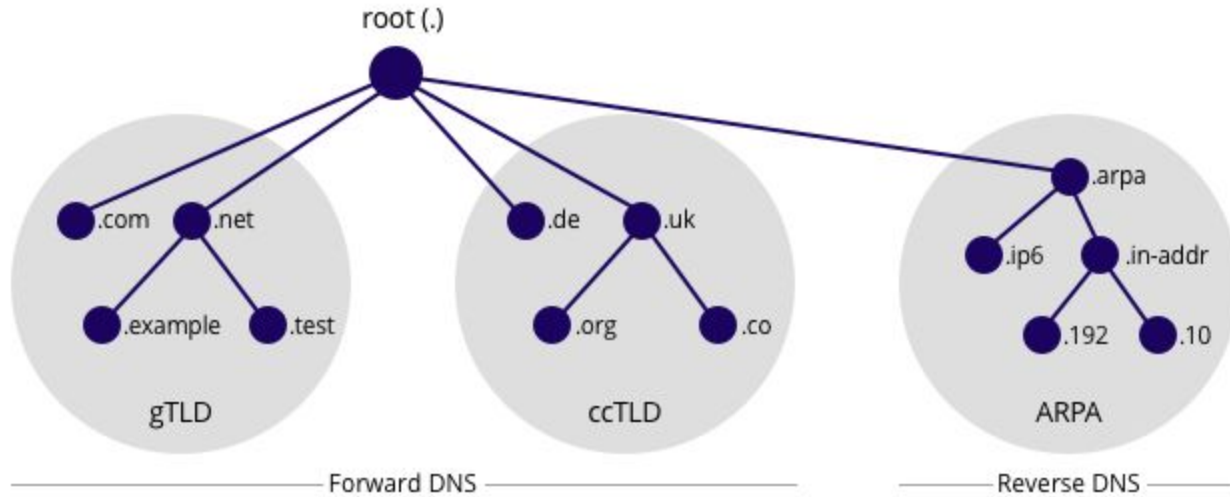


IT Infrastructure services

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DNS



DNS record types

- A
- AAAA
- CNAME
- NS
- SOA
- MX
- TXT
- Many more: https://en.wikipedia.org/wiki/List_of_DNS_record_types

DNS troubleshooting

- <https://isitdns.com/>
- nslookup <name>
- host <ip or name> [dns-server]
- dig [type] <name> [@dns-server]

Bind9

Docs: <https://kb.isc.org/docs/aa-01031>



Jinja2 loops

Jinja2 online compiler: <https://j2live.ttl255.com/>

```
# vars
bgp_neighbors:
- 10.0.2.15
- 10.0.3.34
- 10.2.0.45
- 10.77.0.1
```

```
router bgp 65500
  neighbor 10.0.2.15 remote-as 65500
  neighbor 10.0.3.34 remote-as 65500
  neighbor 10.2.0.45 remote-as 65500
  neighbor 10.77.0.1 remote-as 65500
```

```
# template
router bgp 65500
  {% for n in bgp_neighbors %}
  neighbor {{ n }} remote-as 65500
  {% endfor %}
```

Jinja2 conditions

```
# vars_R1
bgp_neighbors:
  - 10.0.2.15
  - 10.0.3.34
  - 10.2.0.45
  - 10.77.0.1
```

```
# vars_R2
ospf_area: 0
```

```
# template
{% if bgp_neighbors %}
router bgp 65500
  {% for n in bgp_neighbors %}
  neighbor {{ n }} remote-as 65500
  {% endfor %}
{% endif %}
```

R1:

```
router bgp 65500
  neighbor 10.0.2.15 remote-as 65500
  neighbor 10.0.3.34 remote-as 65500
  neighbor 10.2.0.45 remote-as 65500
  neighbor 10.77.0.1 remote-as 65500
```

R2:

Ansible facts

```
RomanKuc-MBP:01-demo romank$ ansible-playbook test_ansible.yaml
```

```
PLAY [Ansible connection test] *****
```

```
TASK [Gathering Facts] *****
```

```
ok: [my_vm]
```

```
TASK [test_connection : Ansible ping module] *****
```

```
ok: [my_vm]
```

```
PLAY RECAP *****
```

```
my_vm                : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

- name: Ansible connection test
- hosts: my_vm
- gather_facts: no ← default is yes
- roles:
- test_connection

Ansible variables not from /vars folder

```
---  
- name: Show some variables  
  hosts: my_vm  
  gather_facts: no  
  tasks:  
    - debug:  
      var: groups  
    - debug:  
      var: hostvars  
    - debug:  
      msg: This VM IP is {{ hostvars['my_vm']['ansible_default_ipv4']['address'] }}
```



```
- name: Show some variables  
  hosts: my_vm  
  tasks:  
    - debug:  
      msg: This VM IP is {{ hostvars['my_vm']['ansible_default_ipv4']['address'] }}
```