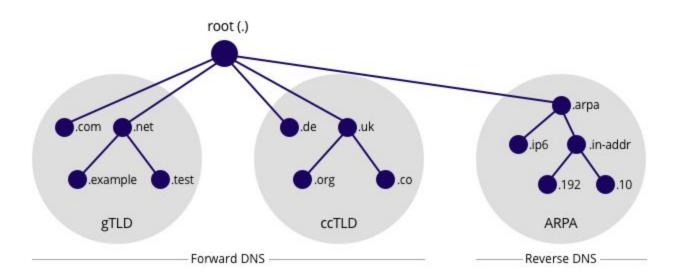
IT Infrastructure services

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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



https://jinja.palletsprojects.com/en/2.10.x/

Jinja2 loops

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

```
forwarders {
   1.1.1.1;
   8.8.8.8;
   9.9.9.9;
};
```

```
# template
forwarders {
    {% for n in dns_resolvers %}
    {{ n }};
    {% endfor %}
};
```

Jinja2 conditions

```
# VM1 vars
dns resolvers:
                                             VM1:
     1.1.1.1
                                             forwarders {
   8.8.8.8
                                               1.1.1.1;
     9.9.9.9
                                               8.8.8;
use resolvers: true,
                                               9.9.9.9;
                                             };
# VM2 vars
use_resolvers: false
# template
{% if use resolvers %}
forwarders {
                                            VM2:
 {% for n in dns_resolvers %}
 {{ n }};
 {% endfor %}
{% endif %}
```

Ansible facts

```
---
- name: Play 1
hosts: my_vm
gather_facts: no ← default is yes
roles:
- init
```

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'] }}
```