

Whois コマンド

```
# whois -h whois.jpri.jp tuis.ac.jp
.....
.....
Domain Information: [ドメイン情報]
a. [ドメイン名]          TUIS.AC.JP
e. [そしきめい]          とうきょうじょうほうだいがく
f. [組織名]              東京情報大学
g. [Organization]        Tokyo University of Information Sciences
k. [組織種別]            大学
l. [Organization Type]    University
m. [登録担当者]          NH5642JP
n. [技術連絡担当者]      F1002JP
p. [ネームサーバ]        ns1.tuis.ac.jp
p. [ネームサーバ]        sigw.sinet.ad.jp
p. [ネームサーバ]        ns2.tuis.ac.jp
s. [署名鍵]
[状態]                   Connected (2015/02/28)
[登録年月日]             1994/02/21
[接続年月日]             1994/07/04
[最終更新]               2014/03/01 01:14:28 (JST)
```

nslookup コマンド

```
$ nslookup
> server 202.26.157.10      ネームサーバの指定
Default server: 202.26.157.10
Address: 202.26.157.10#53
> www.tuis.ac.jp           www.tuis.ac.jp の IP アドレスを検索 (A レコード)
Server:      202.26.157.10
Address:     202.26.157.10#53

www.tuis.ac.jp canonical name = webhost.tuis.ac.jp.
Name:   webhost.tuis.ac.jp
Address: 202.26.157.15
> set type=NS              NS レコードの検索モードへ移行.
> .                         ルートドメインサーバを検索
Server:      202.26.157.10
Address:     202.26.157.10#53

Non-authoritative answer:
.      nameserver = J. ROOT-SERVERS. NET.
.      nameserver = K. ROOT-SERVERS. NET.
.      nameserver = L. ROOT-SERVERS. NET.
.      nameserver = M. ROOT-SERVERS. NET.
.      nameserver = A. ROOT-SERVERS. NET.
.      nameserver = B. ROOT-SERVERS. NET.
.      nameserver = C. ROOT-SERVERS. NET.
```

```
.      nameserver = D. ROOT-SERVERS. NET.
.      nameserver = E. ROOT-SERVERS. NET.
.      nameserver = F. ROOT-SERVERS. NET.
.      nameserver = G. ROOT-SERVERS. NET.
.      nameserver = H. ROOT-SERVERS. NET.
.      nameserver = I. ROOT-SERVERS. NET.
```

Authoritative answers can be found from:

```
B. ROOT-SERVERS. NET      internet address = 192.228.79.201
C. ROOT-SERVERS. NET      internet address = 192.33.4.12
D. ROOT-SERVERS. NET      internet address = 128.8.10.90
E. ROOT-SERVERS. NET      internet address = 192.203.230.10
G. ROOT-SERVERS. NET      internet address = 192.112.36.4
H. ROOT-SERVERS. NET      internet address = 128.63.2.53
H. ROOT-SERVERS. NET      has AAAA address 2001:500:1::803f:235
I. ROOT-SERVERS. NET      internet address = 192.36.148.17
L. ROOT-SERVERS. NET      internet address = 199.7.83.42
M. ROOT-SERVERS. NET      internet address = 202.12.27.33
```

> 202.26.159.139 **IP アドレスを検索. 自動的に PTR レコードを検索.**

```
Server:      202.26.157.10
Address:     202.26.157.10#53
```

```
139.159.26.202. in-addr. arpa      canonical name = 139.128/28.159.26.202. in-addr. arpa.
139.128/28.159.26.202. in-addr. arpa      name = pleiades.solar-system.tuis.ac.jp.
```

> set type=MX **MX レコードを検索するモードへ移行**
 > edu.tuis.ac.jp **@edu.tuis.ac.jp のメールサーバを検索**

```
Server:      202.26.157.10
Address:     202.26.157.10#53
```

```
edu.tuis.ac.jp mail exchanger = 10 mercury.edu.tuis.ac.jp.
```

>exit **対話モードを終了**

dig コマンド

```
$ dig @202.26.157.10 www.nsl.ac.jp A
```

```
.....
```

```
:: QUESTION SECTION:
```

```
:www.nsl.tuis.ac.jp.          IN      A
```

```
:: ANSWER SECTION:
```

```
www.nsl.tuis.ac.jp.          39162   IN      CNAME   pleiades.solar-system.tuis.ac.jp.
pleiades.solar-system.tuis.ac.jp. 39162   IN      A        202.26.159.139
```

```
:: AUTHORITY SECTION:
```

```
solar-system.tuis.ac.jp. 39162   IN      NS       jupiter.solar-system.tuis.ac.jp.
```

```
:: ADDITIONAL SECTION:
```

```
jupiter.solar-system.tuis.ac.jp. 39162   IN      A        202.26.159.135
```

```
.....
```

202.26.157.10 のネームサーバを利用して www.nsl.ac.jp の A レコードを検索

```

$ dig jp NS
.....
;; QUESTION SECTION:
;jp.                IN      NS

;; ANSWER SECTION:
jp.                  86400   IN      NS      a.dns.jp.
jp.                  86400   IN      NS      b.dns.jp.
jp.                  86400   IN      NS      d.dns.jp.
jp.                  86400   IN      NS      f.dns.jp.
jp.                  86400   IN      NS      c.dns.jp.
jp.                  86400   IN      NS      e.dns.jp.
jp.                  86400   IN      NS      g.dns.jp.
.....

```

ネームサーバの検索

```

$ dig 1.158.26.202.in-addr.arpa PTR
.....
;; QUESTION SECTION:
;1.158.26.202.in-addr.arpa.  IN      PTR

;; ANSWER SECTION:
1.158.26.202.in-addr.arpa. 86400   IN      CNAME   1.0/24.158.26.202.in-addr.arpa.
1.0/24.158.26.202.in-addr.arpa. 86400   IN      PTR      www.infosys.tuis.ac.jp.

;; AUTHORITY SECTION:
0/24.158.26.202.in-addr.arpa. 86400   IN      NS      www.infosys.tuis.ac.jp.

;; ADDITIONAL SECTION:
www.infosys.tuis.ac.jp. 73513   IN      A      202.26.158.1
.....

```

IP アドレス 202.26.158.1 の逆引き

```

$ dig nsl.tuis.ac.jp MX
.....
;; QUESTION SECTION:
;nsl.tuis.ac.jp.                IN      MX

;; ANSWER SECTION:
nsl.tuis.ac.jp.                86400   IN      MX      10 sol.nsl.tuis.ac.jp.

;; AUTHORITY SECTION:
nsl.tuis.ac.jp.                86400   IN      NS      jupiter.solar-system.tuis.ac.jp.

;; ADDITIONAL SECTION:
sol.nsl.tuis.ac.jp.            86400   IN      A      202.26.159.196
jupiter.solar-system.tuis.ac.jp. 86400   IN      A      202.26.159.135
.....

```

@nsl.tuis.ac.jp のメールサーバを検索