acme-ip

IP validation

- ACME currently only has methods for validating DNS identifiers

- Prevents issuing certificates for IP addresses

- acme-ip provides updates that allow usage of IP identifiers and methods for validating control of them

Methods

- `http` and `tls-alpn` methods work without any changes

- New `reverse-dns` method introduced to cover DNS use case

- All methods valid under CABF BR 3.2.2.5

reverse-dns

1. Generate reverse mapping name for address

2. Lookup PTR records at reverse name

3. Append `_acme-challenge` prefix to PTR target

4. Look for validation token in TXT records at prefixed name

Proposed changes

- Change to the `reverse-dns` has been proposed

- Instead of looking up the PTR target and doing validation at that name the validation would be done directly at the reverse name, e.g.

  1. Generate reverse mapping name for address

  2. Look for validation token in TXT records at reverse name

- Means a second non-reverse zone doesn't need to be provisioned

- dnsop folks seem fine with this usage of the reverse zones

- Doesn't fit under any of the specific CABF BR 3.2.2.5 methods (i.e. it's a 'any other method' method)