Ephemeral datastore

draft-hares-i2rs-ephemeral-ds-00.txt

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Why Datastore model

- I2RS WG items include creation of Ephemeral data store
- 95% of work done in OPS
  - draft-ietf-netmod-revised-datastores-06
  - draft-ietf-netconf-nmda-restconf
  - draft-ietf-netconf-nmda-netconf
- 5% - Need to just define as standard
3 things to discuss

- #1 Need for ephemeral flag
  - Done so that config model can have ephemeral data in the model
- Can be done a combination of dynamic plus configuration
  - Do we still need it?

BGP Peer added as ephemeral peer
IETF revised datastores

- **Candidate** *(ct,rw)*
- **Start-up** *(ct,rw)*
- **Running** *(ct,rw)*
- **Intended** *(ct,ro)*
- **Dynamic Config Datastores**
- **Operational** *(ctt+cf, ro)*
- **System state**
// add datastore identity
identity ds-ephemeral {
    base ds:datastore;
    description
        "The 'ephemeral' datastore.";
}

// add origin identity
identity or-ephemeral {
    base or:dynamic;
    description
        "Denotes data from the ephemeral dynamic datastore.";
}
Features in Ephemeral Datastore

• #2 Non-sensitive data
  – Certain models may be sent over RESTCONF over HTTP over TCP
  – Example: Web-service up if routing there
  – Part of architecture and requirements

• Datastore Flag
  – Tracks the model having this data
  – Will need to be accompanied by a knob
extension data-not-sensitive {
  argument "value";
  description
    "This extension indicates that this read-only data node is not sensitive and should be allowed to access via a non-secure transport. The value is either true or false."
}
Features in Ephemeral Datastore

• #3 list of models
  – Comments in data model will provide a list of an example models
  – Should we have field in Yang catalog for models that can be loaded into ephemeral datastore (?)
What’s left out

• Any flags on validation
• Validation set by implementation
• If this is not sufficient, WG can revise datastore model
Any thoughts or questions?