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Workshop Installation Instructions

- https://github.com/newrelic-experimental/nerd-days-terraform
- Requirements
 - New Relic Provider v2.11.0 or later
 - Terraform v0.13.0 or later (Lab requirement, not Provider)
 - New Relic Account
 - Admin level access for all features
 - Personal API key

New Relic Provider - Brief History

- Started by the community mid 2017
- Open Source project (MPL 2.0)
- Adopted by New Relic in late 2019 (Still driven as OSS)
- Entire backend has been rewritten (<u>newrelic-client-go</u>)
- Internal adoption and Product team support



Developer Toolkit

The New Relic Developer Toolkit is a suite of tools expressly built to ease the configuration, management, and usage of New Relic through automation.

Tool	Problem	Solution
<u>Terraform</u> <u>Provider</u>	Teams need an easy and consistent way to monitor their assets, following defined best practices.	Configure your stack with the New Relic Terraform Provider, which enables Observability as Code, reducing developer toil, and allows users to manage their entire ecosystem in a single place
New Relic CLI	When I deploy an application, I want to easily record the deployment in New Relic When service ownership changes, I want an easily	The New Relic CLI enables integration of New Relic into your existing workflows. Be it fetching data from your laptop while troubleshooting an issue, or adding New Relic into your CI/CD pipeline.
New Relic Kubernetes Operator	automated way to change tags within New Relic I use Kubernetes, how do I easily provision New Relic resources.	The New Relic Kubernetes Operator enables teams leveraging Kubernetes to easily provision a subset of New Relic resources as part of their existing workflow.

BREAKING CHANGE FROM v1.x!

- v2.0.0 released 6/18/2020 Current is v2.12.0
- API Key configuration changed <= Most confusing part
- Updated environment variables to match New Relic standards
- Deprecated unused / end of life items
- Latest documentation is <u>here</u>

API Keys

- Personal
 - Used for NerdGraph (Unified GraphQL API)
 - All new features use them
 - Compatible with *most* REST APIs
- Admin
 - No longer used in the Provider (> v2.10.3)
 - **REST API only**
 - Historically used in the provider
 - Simple RBAC (Admin role)
 - Slated for deprecation (no timeline)

New Data Sources

- newrelic_account Lookup New Relic account by ID or Name
- **newrelic_entity** Enabling an entity centric view from within the provider is a natural extension of the platform

New Resources

- **newrelic_entity_tags** Manage the tags created on entities, easily use terraform variables to calculate and assign tags to resources dynamically
- **newrelic_nrql_alert_condition** Updated to include all NRQL condition types: Static, Baseline, Outlier
- **newrelic_events_to_metrics_rule** Events to Metrics allows you to aggregate your event data which is optimal for analyzing and monitoring trends over long time periods.
- **newrelic_alert_muting_rule** Configure custom rules to mute alerts during maintenance windows or other planned downtime.
- **newrelic_api_access_key** Generate / manage Personal API keys, Browser keys, and License Keys

Near-term items:

- Edge Tracing New Relic Edge Infinite Tracing endpoint management.
- **Cloud Integrations** Configuration of Cloud integrations is a complex resource, 0 and now that we have the ability to configure via NerdGraph, we can prioritize this.

Longer-term items:

Better Dashboard support - We're working with the Dashboards team to get access to an updated API, and unlock all NRI dashboards capabilities.

Lab Time!

https://github.com/newrelic-experimental/nerd-days-terraform

Thank You

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