Ubuntu VM Configuration in New relic with Trouble shoots

### Step 1: Sign Up for New Relic

1. **Create a New Relic Account**:
   * Visit the New Relic sign-up page.
   * Follow the instructions to create an account.

### Step 2: Install New Relic Agent on Azure VMs

#### For Linux VMs:

1. **Login to Azure Portal**:
   * Go to the [Azure Portal](https://portal.azure.com).
   * Navigate to "Virtual Machines" and select the VM where you want to install the New Relic agent.
2. **Connect to VM**:
   * Use SSH to connect to your VM. If you’re using an SSH key, the command will look something like this:

ssh -i /path/to/your/private/key username@your-vm-ip

1. **Install Dependencies**:
   * Update the package list and install wget:

sh

sudo apt-get update

sudo apt-get install wget

1. **Add New Relic Repository**:
   * Create a new list file for New Relic:

echo "deb [arch=amd64] <https://download.newrelic.com/infrastructure_agent/linux/apt> focal main" | sudo tee -a /etc/apt/sources.list.d/newrelic-infra.list

1. **Add New Relic GPG Key**:
   * Download and add the GPG key:

sh

wget -O- <https://download.newrelic.com/infrastructure_agent/gpg/newrelic-infra.gpg> | sudo apt-key add -

1. **Install New Relic Infrastructure Agent**:
   * Update the package list and install the agent:

sudo apt-get update

sudo apt-get install newrelic-infra -y

sudo apt-get install --only-upgrade newrelic-infra -y

For Create a license key follow the below one select key type is Ingest-License

A screenshot of a computer

Description automatically generated

1. **Configure the Agent**:
   * Create or edit the configuration file /etc/newrelic-infra.yml:

sh

sudo nano /etc/newrelic-infra.yml

* + Add your New Relic license key:

yaml

license key: YOUR\_NEW\_RELIC\_LICENSE\_KEY

for exp:- license\_key: 7e721813e9811438e1a47048b74f258eFFFFNRAL

display\_name: new\_name

1. **Start the Agent**:
   * Start and enable the New Relic Infrastructure agent:

sh

sudo systemctl start newrelic-infra

sudo systemctl enable newrelic-infra

sudo systemctl status newrelic-infra

#### For Windows VMs:

1. **Login to Azure Portal**:
   * Go to the [Azure Portal](https://portal.azure.com).
   * Navigate to "Virtual Machines" and select the VM where you want to install the New Relic agent.
2. **Connect to VM**:
   * Use RDP to connect to your VM.
3. **Download the New Relic Infrastructure Agent**:
   * Open a web browser on your VM and go to the New Relic download page.
   * Download the .msi installer.
4. **Install the Agent**:
   * Run the downloaded .msi file and follow the installation prompts.
5. **Configure the Agent**:
   * Open the configuration file C:\Program Files\New Relic\newrelic-infra\newrelic-infra.yml in a text editor such as Notepad.
   * Add your New Relic license key:

yaml

license\_key: YOUR\_NEW\_RELIC\_LICENSE\_KEY

1. **Start the Agent**:
   * Open Command Prompt as an administrator and start the New Relic service:

sh

net start newrelic-infra

### Step 3: Integrate with Azure

1. **Navigate to New Relic One**:
   * Log into your New Relic account and go to the New Relic One dashboard.
2. **Go to Integrations**:
   * In the left-hand menu, click on "Integrations".
3. **Select Azure**:
   * Find and select "Azure" from the list of available integrations.
4. **Configure Azure Integration**:
   * Click on "Connect to Azure".
   * You will be redirected to a setup page where you need to provide Azure credentials.
5. **Create a Service Principal in Azure**:
   * Open the Azure Portal and navigate to "Azure Active Directory" > "App registrations" > "New registration".
   * Register a new application for New Relic integration.
   * Once registered, note down the Application (client) ID and Directory (tenant) ID.
   * Navigate to "Certificates & secrets" and create a new client secret. Note down the secret value.
6. **Assign Required Permissions**:
   * Navigate to "Subscriptions" and select the subscription you want to monitor.
   * Click on "Access control (IAM)" > "Add role assignment".
   * Assign the "Reader" role to the service principal you created.
7. **Complete Integration Setup in New Relic**:
   * Go back to the New Relic setup page and enter the Application (client) ID, Directory (tenant) ID, and client secret.
   * Follow the prompts to complete the setup.

### Step 4: Configure Monitoring and Alerts

1. **Set Up Monitoring**:
   * In New Relic One, navigate to the "Infrastructure" section.
   * Ensure your Azure VMs and other resources are being monitored.
2. **Create Alerts**:
   * In New Relic, navigate to "Alerts & AI" > "Policies".
   * Click on "New alert policy" and name your policy.
   * Create alert conditions based on metrics like CPU usage, memory usage, disk I/O, etc.
   * For each condition, specify the thresholds and notification channels (e.g., email, Slack).

### Step 5: Verify the Integration

1. **Check Data Flow**:
   * Ensure that data from your Azure resources is being sent to New Relic.
   * You should see your Azure VMs and their metrics in the New Relic dashboard.
2. **Monitor Dashboards**:
   * Use the pre-built dashboards or create custom dashboards in New Relic to monitor your infrastructure.

### Step 6: Customize and Expand Monitoring

1. **Add Custom Metrics**:
   * If needed, customize the monitoring setup to include additional metrics relevant to your applications and infrastructure.
   * Refer to the New Relic documentation on how to create and send custom metrics.
2. **Use New Relic Plugins**:
   * Explore and install New Relic plugins for additional functionalities and integrations.
   * Plugins can help monitor specific applications, databases, or other services in more detail.

By following these detailed steps, you should have a comprehensive monitoring setup for your Azure infrastructure using New Relic. For more specific information and troubleshooting, refer to the official New Relic documentation.

For Trouble shootings: -

For Check logs:\_

sudo journalctl -u newrelic-infra.service -f

**Open the configuration file:**

sudo nano /etc/newrelic-infra.yml

sudo systemctl restart newrelic-infra.

sudo systemctl start newrelic-infra.

sudo systemctl status newrelic-infra.

Uninstallation process: -

sudo system stop newrelic-infra

sudo apt-get remove --purge newrelic-infra -y

sudo rm -rf /etc/newrelic-infra /etc/newrelic

sudo rm -rf /var/log/newrelic\*

ls -l /var/log/newrelic\*

https://raw.githubusercontent.com/helm/helm/main/scripts/get-helm-3

Update the newrelic package using below command in Linux:\_

sudo apt-get update && sudo apt-get install --only-upgrade newrelic-infra -y