

Text Compare

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Mode: Differences

Left file: /tmp/before.py Right file: /tmp/after.py

558	def _convert_dashboard_fields(content: str, inject_dropdowns: bool = True) -> str:	<>	558	class CharmedDashboard:
559	"""Make sure values are present for Juju topology.		559	"""A helper class for handling dashboards on the requirer (Grafana) side."""
			560	
			561	@classmethod
			562	def _convert_dashboard_fields(cls, content: str, inject_dropdowns: bool = True) -> str:
			563	"""Make sure values are present for Juju topology.
561	Inserts Juju topology variables and selectors into the template, as well as	<>	565	Inserts Juju topology variables and selectors into the template, as well as
562	a variable for Prometheus.		566	a variable for Prometheus.
563	"""		567	"""
564	dict_content = json.loads(content)		568	dict_content = json.loads(content)
565	datasources = {}		569	datasources = {}
566	existing_templates = False		570	existing_templates = False
568	template_dropdowns = (	<>	572	template_dropdowns = (
569	TOPOLOGY_TEMPLATE_DROPDOWNS +		573	TOPOLOGY_TEMPLATE_DROPDOWNS + DATASOURCE_TEMPLATE_DROPDOWNS
	DATASOURCE_TEMPLATE_DROPDOWNS # type: ignore		574	# type: ignore
570	if inject_dropdowns		575	if inject_dropdowns
571	else DATASOURCE_TEMPLATE_DROPDOWNS		576	else DATASOURCE_TEMPLATE_DROPDOWNS
572	)		576)
574	# If the dashboard has __inputs, get the names to replace them. These are stripped	<>	578	# If the dashboard has __inputs, get the names to replace them. These are stripped
575	# from reactive dashboards in GrafanaDashboardAggregator, but charm authors in		579	# from reactive dashboards in GrafanaDashboardAggregator, but charm authors in
576	# newer charms may import them directly from the marketplace		580	# newer charms may import them directly from the marketplace
577	if "__inputs" in dict_content:		581	if "__inputs" in dict_content:
578	for field in dict_content["__inputs"]:		582	for field in dict_content["__inputs"]:
579	if "type" in field and field["type"] == "datasource":		583	if "type" in field and field["type"] == "datasource":
580	datasources[field["name"]] =		584	datasources[field["name"]] =
	field["pluginName"].lower()		585	field["pluginName"].lower()
581	del dict_content["__inputs"]		585	del dict_content["__inputs"]
583	# If no existing template variables exist, just insert our own	<>	587	# If no existing template variables exist, just insert our own
584	if "templating" not in dict_content:		588	if "templating" not in dict_content:
585	dict_content["templating"] = {"list":		589	dict_content["templating"] = {"list":
	list(template_dropdowns)} # type: ignore		590	list(template_dropdowns)} # type: ignore
586	else:		591	else:
587	# Otherwise, set a flag so we can go back later		592	# Otherwise, set a flag so we can go back later
588	existing_templates = True		592	existing_templates = True

589	for template_value in dict_content["templating"]["list"]:	593	for template_value in dict_content["templating"]["list"]:	
590	# Build a list of `datasource_name`: `datasource_type`	594	# Build a list of `datasource_name`: `datasource_type`	
mappings		mappings		
591	# The "query" field is actually "prometheus", "loki",	595	# The "query" field is actually "prometheus", "loki",	
"influxdb", etc		"influxdb", etc		
592	if "type" in template_value and template_value["type"]	596	if "type" in template_value and template_value["type"]	
== "datasource":		== "datasource":		
593	datasources[template_value["name"]] =	597	datasources[template_value["name"]] =	
template_value["query"].lower()		template_value["query"].lower()		
595	# Put our own variables in the template	<>	599	# Put our own variables in the template
596	for d in template_dropdowns: # type: ignore		600	for d in template_dropdowns: # type: ignore
597	if d not in dict_content["templating"]["list"]:		601	if d not in dict_content["templating"]["list"]:
598	dict_content["templating"]["list"].insert(0, d)		602	dict_content["templating"]["list"].insert(0, d)
600	dict_content = _replace_template_fields(dict_content,	<>	604	dict_content = cls ._replace_template_fields(dict_content,
datasources, existing_templates)			datasources, existing_templates)	
601	return json.dumps(dict_content)		605	return json.dumps(dict_content)
603		<>	607	@classmethod
604	def _replace_template_fields(# noqa: C901		608	def _replace_template_fields(# noqa: C901
605	dict_content: dict, datasources: dict, existing_templates:		609	cls , dict_content: dict, datasources: dict, existing_templates:
bool			bool	
606	) -> dict:		610	) -> dict:
607	"""Make templated fields get cleaned up afterwards.		611	"""Make templated fields get cleaned up afterwards.
609	If existing datasource variables are present, try to	<>	613	If existing datasource variables are present, try to substitute
substitute them.			them.	
610	"""		614	"""
611	replacements = {"loki": "\${lokids}", "prometheus":		615	replacements = {"loki": "\${lokids}", "prometheus":
"\${prometheusds}"}			"\${prometheusds}"}	
612	used_replacements = [] # type: List[str]		616	used_replacements = [] # type: List[str]
614	# If any existing datasources match types we know, or we	<>	618	# If any existing datasources match types we know, or we didn't
didn't find			find	
615	# any templating variables at all, template them.		619	# any templating variables at all, template them.
616	if datasources or not existing_templates:		620	if datasources or not existing_templates:
617	panels = dict_content.get("panels", {})		621	panels = dict_content.get("panels", {})
618	if panels:		622	if panels:
619	dict_content["panels"] = _template_panels(		623	dict_content["panels"] = cls ._template_panels(
620	panels, replacements, used_replacements,		624	panels, replacements, used_replacements,
existing_templates, datasources			existing_templates, datasources	
621	)		625)
623	# Find panels nested under rows	<>	627	# Find panels nested under rows
624	rows = dict_content.get("rows", {})		628	rows = dict_content.get("rows", {})
625	if rows:		629	if rows:
626	for row_idx, row in enumerate(rows):		630	for row_idx, row in enumerate(rows):
627	if "panels" in row.keys():		631	if "panels" in row.keys():
628	rows[row_idx]["panels"] = _template_panels(		632	rows[row_idx]["panels"] = cls ._template_panels(

629	row["panels"],		633	row["panels"],
630	replacements,		634	replacements,
631	used_replacements,		635	used_replacements,
632	existing_templates,		636	existing_templates,
633	datasources,		637	datasources,
634	)		638)
636	dict_content["rows"] = rows	<>	640	dict_content["rows"] = rows
638	# Finally, go back and pop off the templates we stubbed out	<>	642	# Finally, go back and pop off the templates we stubbed out
639	deletions = []		643	deletions = []
640	for tpl in dict_content["templating"]["list"]:		644	for tpl in dict_content["templating"]["list"]:
641	if tpl["name"] and tpl["name"] in used_replacements:		645	if tpl["name"] and tpl["name"] in used_replacements:
642	deletions.append(tmpl)		646	deletions.append(tmpl)
644	for d in deletions:	<>	648	for d in deletions:
645	dict_content["templating"]["list"].remove(d)		649	dict_content["templating"]["list"].remove(d)
647	return dict_content	<>	651	return dict_content
649		<>	653	@classmethod
650	def _template_panels(		654	def _template_panels(
651	panels: dict,		655	cls,
652	replacements: dict,		656	panels: dict,
653	used_replacements: list,		657	replacements: dict,
654	existing_templates: bool,		658	used_replacements: list,
655	datasources: dict,		659	existing_templates: bool,
656	) -> dict:		660	datasources: dict,
657	"""Iterate through a `panels` object and template it		661	) -> dict:
658	appropriately."""		662	"""Iterate through a `panels` object and template it
659	# Go through all the panels. If they have a datasource set,		663	appropriately."""
660	AND it's one		664	# Go through all the panels. If they have a datasource set, AND
661	# that we can convert to \${lokids} or \${prometheusds}, by		665	it's one
662	stripping off the		666	# that we can convert to \${lokids} or \${prometheusds}, by
663	# \${} templating and comparing the name to the list we built,		667	stripping off the
664	replace it,		668	# \${} templating and comparing the name to the list we built,
665	# otherwise, leave it alone.		669	replace it,
666	#		670	# otherwise, leave it alone.
667	for panel in panels:		671	#
668	if "datasource" not in panel or not		672	for panel in panels:
669	panel.get("datasource"):		673	if "datasource" not in panel or not panel.get("datasource"):
670	continue		674	continue
671	if not existing_templates:		675	if not existing_templates:
672	datasource = panel.get("datasource")		676	datasource = panel.get("datasource")
673	if isinstance(datasource, str):		677	if isinstance(datasource, str):
674	if "loki" in datasource:			if "loki" in datasource:
675	panel["datasource"] = "\${lokids}"			panel["datasource"] = "\${lokids}"
676	elif "grafana" in datasource:			elif "grafana" in datasource:
677	continue			continue

673	else:	678	else:
674	panel["datasource"] = "\${prometheus}"	679	panel["datasource"] = "\${prometheus}"
675	elif isinstance(datasource, dict):	680	elif isinstance(datasource, dict):
676	# In dashboards exported by Grafana 9, datasource type is dict	681	# In dashboards exported by Grafana 9, datasource type is dict
677	dstype = datasource.get("type", "")	682	dstype = datasource.get("type", "")
678	if dstype == "loki":	683	if dstype == "loki":
679	panel["datasource"]["uid"] = "\${lokids}"	684	panel["datasource"]["uid"] = "\${lokids}"
680	elif dstype == "prometheus":	685	elif dstype == "prometheus":
681	panel["datasource"]["uid"] = "\${prometheus}"	686	panel["datasource"]["uid"] = "\${prometheus}"
682	else:	687	else:
683	logger.debug("Unrecognized datasource type '%s'; skipping", dstype)	688	logger.debug("Unrecognized datasource type '%s'; skipping", dstype)
684	continue	689	continue
685	else:	690	else:
686	logger.error("Unknown datasource format: skipping")	691	logger.error("Unknown datasource format: skipping")
687	continue	692	continue
688	else:	693	else:
689	if isinstance(panel["datasource"], str):	694	if isinstance(panel["datasource"], str):
690	if panel["datasource"].lower() in replacements.values():	695	if panel["datasource"].lower() in replacements.values():
691	# Already a known template variable	696	# Already a known template variable
692	continue	697	continue
693	# Strip out variable characters and maybe braces	698	# Strip out variable characters and maybe braces
694	ds = re.sub(r"(\\$|\\{|\\})", "", panel["datasource"])	699	ds = re.sub(r"(\\$|\\{|\\})", "", panel["datasource"])
696	if ds not in datasources.keys():	<> 701	if ds not in datasources.keys():
697	# Unknown, non-templated datasource, potentially a Grafana builtin	702	# Unknown, non-templated datasource, potentially a Grafana builtin
698	continue	703	continue
700	replacement = replacements.get(datasources[ds], "")	<> 705	replacement = replacements.get(datasources[ds], "")
701	if replacement:	706	if replacement:
702	used_replacements.append(ds)	707	used_replacements.append(ds)
703	panel["datasource"] = replacement or panel["datasource"]	708	panel["datasource"] = replacement or panel["datasource"]
704	elif isinstance(panel["datasource"], dict):	709	elif isinstance(panel["datasource"], dict):
705	dstype = panel["datasource"].get("type", "")	710	dstype = panel["datasource"].get("type", "")
706	if panel["datasource"].get("uid", "").lower() in replacements.values():	711	if panel["datasource"].get("uid", "").lower() in replacements.values():
707	# Already a known template variable	712	# Already a known template variable
708	continue	713	continue
709	# Strip out variable characters and maybe braces	714	# Strip out variable characters and maybe braces
710	ds = re.sub(r"(\\$|\\{|\\})", "", panel["datasource"].get("uid", ""))	715	ds = re.sub(r"(\\$|\\{|\\})", "", panel["datasource"].get("uid", ""))

712	if ds not in datasources.keys():	<>	717	if ds not in datasources.keys():
713	# Unknown, non-templated datasource, potentially a Grafana builtin		718	# Unknown, non-templated datasource, potentially a Grafana builtin
714	continue		719	continue
716	replacement = replacements.get(datasources[ds], "")	<>	721	replacement = replacements.get(datasources[ds], "")
717	if replacement:		722	if replacement:
718	used_replacements.append(ds)		723	used_replacements.append(ds)
719	panel["datasource"]["uid"] = replacement		724	panel["datasource"]["uid"] = replacement
720	else:		725	else:
721	logger.error("Unknown datasource format: skipping")		726	logger.error("Unknown datasource format: skipping")
722	continue		727	continue
723	return panels		728	return panels
725		<>	730	@classmethod
726	def _inject_labels(content: str, topology: dict, transformer: "CosTool") -> str:		731	def _inject_labels(cls, content: str, topology: dict, transformer: "CosTool") -> str:
727	"""Inject Juju topology into panel expressions via CosTool.		732	"""Inject Juju topology into panel expressions via CosTool.
729	A dashboard will have a structure approximating:	<>	734	A dashboard will have a structure approximating:
730	{		735	{
731	"__inputs": [],		736	"__inputs": [],
732	"templating": {		737	"templating": {
733	"list": [		738	"list": [
734	{		739	{
735	"name": "prometheusds",		740	"name": "prometheusds",
736	"type": "prometheus"		741	"type": "prometheus"
737	}		742	}
738	]		743]
739	},		744	},
740	"panels": [		745	"panels": [
741	{		746	{
742	"foo": "bar",		747	"foo": "bar",
743	"targets": [		748	"targets": [
744	{		749	{
745	"some": "field",		750	"some": "field",
746	"expr": "up{job='foo'}"		751	"expr": "up{job='foo'}"
747	},		752	},
748	{		753	{
749	"some_other": "field",		754	"some_other": "field",
750	"expr": "sum(http_requests_total{instance='\$foo'}[5m])"		755	"expr": "sum(http_requests_total{instance='\$foo'}[5m])"
751	}		756	}
752	],		757],
753	"datasource": "\${somedes}"		758	"datasource": "\${somedes}"
754	}		759	}

755]		760]	
756 }		761 }	
758 `templating` is used elsewhere in this library, but the structure is not rigid. It is	<>	763 `templating` is used elsewhere in this library, but the structure is not rigid. It is	
759 not guaranteed that a panel will actually have any targets (it could be a "spacer" with		764 not guaranteed that a panel will actually have any targets (it could be a "spacer" with	
760 no datasource, hence no expression). It could have only one target. It could have multiple		765 no datasource, hence no expression). It could have only one target. It could have multiple	
761 targets. It could have multiple targets of which only one has an `expr` to evaluate. We need		766 targets. It could have multiple targets of which only one has an `expr` to evaluate. We need	
762 to try to handle all of these concisely.		767 to try to handle all of these concisely.	
764 `cos-tool` (`github.com/canonical/cos-tool` as a Go module in general)	<>	769 `cos-tool` (`github.com/canonical/cos-tool` as a Go module in general)	
765 does not know "Grafana-isms", such as using `[\$_variable]` to modify the query from the user		770 does not know "Grafana-isms", such as using `[\$_variable]` to modify the query from the user	
766 interface, so we add placeholders (as `5y`, since it must parse, but a dashboard looking for		771 interface, so we add placeholders (as `5y`, since it must parse, but a dashboard looking for	
767 five years for a panel query would be unusual).		772 five years for a panel query would be unusual).	
769 Args:	<>	774 Args:	
770 content: dashboard content as a string		775 content: dashboard content as a string	
771 topology: a dict containing topology values		776 topology: a dict containing topology values	
772 transformer: a 'CosTool' instance		777 transformer: a 'CosTool' instance	
773 Returns:		778 Returns:	
774 dashboard content with replaced values.		779 dashboard content with replaced values.	
775 ""		780 ""	
776 dict_content = json.loads(content)		781 dict_content = json.loads(content)	
778 if "panels" not in dict_content.keys():	<>	783 if "panels" not in dict_content.keys():	
779 return json.dumps(dict_content)		784 return json.dumps(dict_content)	
781 # Go through all the panels and inject topology labels	<>	786 # Go through all the panels and inject topology labels	
782 # Panels may have more than one 'target' where the expressions live, so that must be		787 # Panels may have more than one 'target' where the expressions live, so that must be	
783 # accounted for. Additionally, `promql-transform` does not necessarily gracefully handle		788 # accounted for. Additionally, `promql-transform` does not necessarily gracefully handle	
784 # expressions with range queries including variables. Exclude these.		789 # expressions with range queries including variables. Exclude these.	
785 #		790 #	
786 # It is not a certainty that the `datasource` field will necessarily reflect the type, so		791 # It is not a certainty that the `datasource` field will necessarily reflect the type, so	
787 # operate on all fields.		792 # operate on all fields.	
788 panels = dict_content["panels"]		793 panels = dict_content["panels"]	
789 topology_with_prefix = {"juju_{}".format(k): v for k, v in topology.items() }		794 topology_with_prefix = {"juju_{}".format(k): v for k, v in topology.items() }	
791 # We need to use an index so we can insert the changed element back later	<>	796 # We need to use an index so we can insert the changed element back later	

792	for panel_idx, panel in enumerate(panels):		797	for panel_idx, panel in enumerate(panels):	
793	if not isinstance(panel, dict):		798	if not isinstance(panel, dict):	
794	continue		799	continue	
796	# Use the index to insert it back in the same location	<>	801	# Use the index to insert it back in the same location	
797	panels[panel_idx] = _modify_panel(panel, topology_with_prefix, transformer)		802	panels[panel_idx] = cls._modify_panel(panel, topology_with_prefix, transformer)	
799	return json.dumps(dict_content)	<>	804	return json.dumps(dict_content)	
801		<>	806	@classmethod	
802	def _modify_panel(panel: dict, topology: dict, transformer: "CosTool") -> dict:		807	def _modify_panel(cls, panel: dict, topology: dict, transformer: "CosTool") -> dict:	
803	"""Inject Juju topology into panel expressions via CosTool.		808	"""Inject Juju topology into panel expressions via CosTool.	
805	Args:	<>	810	Args:	
806	panel: a dashboard panel as a dict		811	panel: a dashboard panel as a dict	
807	topology: a dict containing topology values		812	topology: a dict containing topology values	
808	transformer: a 'CosTool' instance		813	transformer: a 'CosTool' instance	
809	Returns:		814	Returns:	
810	the panel with injected values		815	the panel with injected values	
811	"""		816	"""	
812	if "targets" not in panel.keys():		817	if "targets" not in panel.keys():	
813	return panel		818	return panel	
815	# Pre-compile a regular expression to grab values from inside of []	<>	820	# Pre-compile a regular expression to grab values from inside of []	
816	range_re = re.compile(r"\[(?P<value>.*?)\]")		821	range_re = re.compile(r"\[(?P<value>.*?)\]")	
817	# Do the same for any offsets		822	# Do the same for any offsets	
818	offset_re = re.compile(r"offset\s+(?P<value>-?\s*[\$\w]+)")		823	offset_re = re.compile(r"offset\s+(?P<value>-?\s*[\$\w]+)")	
820	known_datasources = {"\${prometheusds}": "promql", "\${lokids}": "logql"}	<>	825	known_datasources = {"\${prometheusds}": "promql", "\${lokids}": "logql"}	
822	targets = panel["targets"]	<>	827	targets = panel["targets"]	
824	# We need to use an index so we can insert the changed element back later	<>	829	# We need to use an index so we can insert the changed element back later	
825	for idx, target in enumerate(targets):		830	for idx, target in enumerate(targets):	
826	# If there's no expression, we don't need to do anything		831	# If there's no expression, we don't need to do anything	
827	if "expr" not in target.keys():		832	if "expr" not in target.keys():	
828	continue		833	continue	
829	expr = target["expr"]		834	expr = target["expr"]	
831	if "datasource" not in panel.keys():	<>	836	if "datasource" not in panel.keys():	
832	continue		837	continue	
834	if isinstance(panel["datasource"], str):	<>	839	if isinstance(panel["datasource"], str):	
835	if panel["datasource"] not in known_datasources:		840	if panel["datasource"] not in known_datasources:	
836	continue		841	continue	
837	querytype = known_datasources[panel["datasource"]]		842	querytype = known_datasources[panel["datasource"]]	
838	elif isinstance(panel["datasource"], dict):		843	elif isinstance(panel["datasource"], dict):	

839	if panel["datasource"]["uid"] not in known_datasources:		844	if panel["datasource"]["uid"] not in known_datasources:
840	continue		845	continue
841	querytype = known_datasources[panel["datasource"]		846	querytype = known_datasources[panel["datasource"]
842	["uid"]]		847	["uid"]]
843	else:		848	else:
844	logger.error("Unknown datasource format: skipping")		849	logger.error("Unknown datasource format: skipping")
	continue		849	continue
846	# Capture all values inside `[]` into a list which we'll iterate over later to	<>	851	# Capture all values inside `[]` into a list which we'll iterate over later to
847	# put them back in-order. Then apply the regex again and replace everything with		852	# put them back in-order. Then apply the regex again and replace everything with
848	# `[5y]` so promql/parser will take it.		853	# `[5y]` so promql/parser will take it.
849	#		854	#
850	# Then do it again for offsets		855	# Then do it again for offsets
851	range_values = [m.group("value") for m in range_re.finditer(expr)]		856	range_values = [m.group("value") for m in range_re.finditer(expr)]
852	expr = range_re.sub(r"[5y]", expr)		857	expr = range_re.sub(r"[5y]", expr)
854	offset_values = [m.group("value") for m in offset_re.finditer(expr)]	<>	859	offset_values = [m.group("value") for m in offset_re.finditer(expr)]
855	expr = offset_re.sub(r"offset 5y", expr)		860	expr = offset_re.sub(r"offset 5y", expr)
856	# Retrieve the new expression (which may be unchanged if there were no label		861	# Retrieve the new expression (which may be unchanged if there were no label
857	# matchers in the expression, or if it was unable to be parsed like logql. It's		862	# matchers in the expression, or if it was unable to be parsed like logql. It's
858	# virtually impossible to tell from any datasource "name" in a panel what the		863	# virtually impossible to tell from any datasource "name" in a panel what the
859	# actual type is without re-implementing a complete dashboard parser, but no		864	# actual type is without re-implementing a complete dashboard parser, but no
860	# harm will come from passing invalid promql -- we'll just get the original back.		865	# harm will come from passing invalid promql -- we'll just get the original back.
861	#		866	#
862	replacement = transformer.inject_label_matchers(expr, topology, querytype)		867	replacement = transformer.inject_label_matchers(expr, topology, querytype)
864	if replacement == target["expr"]:	<>	869	if replacement == target["expr"]:
865	# promql-transform caught an error. Move on		870	# promql-transform caught an error. Move on
866	continue		871	continue
868	# Go back and substitute values in [] which were pulled out	<>	873	# Go back and substitute values in [] which were pulled out
869	# Enumerate with an index... again. The same regex is ok, since it will still match		874	# Enumerate with an index... again. The same regex is ok, since it will still match
870	# `[(.*?)]`, which includes `[5y]`, our placeholder		875	# `[(.*?)]`, which includes `[5y]`, our placeholder
871	for i, match in enumerate(range_re.finditer(replacement)):		876	for i, match in enumerate(range_re.finditer(replacement)):
872	# Replace one-by-one, starting from the left. We build the string back with		877	# Replace one-by-one, starting from the left. We build the string back with

873	<pre> # `str.replace(string_to_replace, replacement_value, count)`. Limit the count 874 # to one, since we are going through one-by-one through the list we saved earlier 875 # in `range_values`. 876 replacement = replacement.replace(877 "[{}]" .format(match.group("value")), 878 "[{}]" .format(range_values[i]), 879 1, 880)</pre>		878	<pre> # `str.replace(string_to_replace, replacement_value, count)`. Limit the count 879 # to one, since we are going through one-by-one through the list we saved earlier 880 # in `range_values`. 881 replacement = replacement.replace(882 "[{}]" .format(match.group("value")), 883 "[{}]" .format(range_values[i]), 884 1, 885)</pre>
882	<pre> for i, match in enumerate(offset_re.finditer(replacement)): 883 # Replace one-by-one, starting from the left. We build the string back with 884 # `str.replace(string_to_replace, replacement_value, count)`. Limit the count 885 # to one, since we are going through one-by-one through the list we saved earlier 886 # in `range_values`. 887 replacement = replacement.replace(888 "offset {}".format(match.group("value")), 889 "offset {}".format(offset_values[i]), 890 1, 891)</pre>	<>	887	<pre> for i, match in enumerate(offset_re.finditer(replacement)): 888 # Replace one-by-one, starting from the left. We build the string back with 889 # `str.replace(string_to_replace, replacement_value, count)`. Limit the count 890 # to one, since we are going through one-by-one through the list we saved earlier 891 # in `range_values`. 892 replacement = replacement.replace(893 "offset {}".format(match.group("value")), 894 "offset {}".format(offset_values[i]), 895 1, 896)</pre>
893	<pre> # Use the index to insert it back in the same location 894 targets[idx]["expr"] = replacement</pre>	<>	898	<pre> # Use the index to insert it back in the same location 899 targets[idx]["expr"] = replacement</pre>
896	<pre> panel["targets"] = targets 897 return panel</pre>	<>	901	<pre> panel["targets"] = targets 902 return panel</pre>
1442	<pre> content = _convert_dashboard_fields(content, inject_dropdowns)</pre>	<>	1447	<pre> content = CharmedDashboard._convert_dashboard_fields(content, inject_dropdowns)</pre>
1445	<pre> content = _inject_labels(content, topology, self._transformer)</pre>	<>	1450	<pre> content = CharmedDashboard._inject_labels(content, topology, self._transformer)</pre>